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**HARTZELL**

**MANUAL REVISION TRANSMITTAL**  
**Manual 159**  
**Application Guide**

**Manual 159, Rev. 82, Dated November 2022**

**Remove Pages:**

Discard entire Manual 159, Rev. 81

**Insert Pages:**

Replace with entire Manual 159, Rev. 82

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Manual No. 159  
Revision 82  
61-02-59  
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**HARTZELL**

# Application Guide

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REVISION 82 HIGHLIGHTS

Revision 82, dated November 2022, incorporates the following:

Front matter (Cover, Revision Highlights, etc.), has been revised to match this revision.

- APPLICATION INFORMATION CHAPTER
  - Updated application information where applicable throughout the manual.

REVISION 82 HIGHLIGHTS1. Introduction

## A. General

- (1) This is a list of current revisions that have been issued against this manual. Please compare to the RECORD OF REVISIONS page to make sure that all revisions have been added to the manual.
- (2) No change bars are used in the specific application information pages of this manual. Refer to the “Date” field of each individual application entry as an indicator of updated information since the previous published revision.

## B. Components

- (1) Revision No. indicates the revisions incorporated in this manual.
- (2) Issue Date is the date of the revision.
- (3) Comments indicates the level of the revision.
  - (a) New Issue is a new manual distribution. The manual is distributed in its entirety. All the revision dates are the same and no change bars are used.
  - (b) Reissue is a revision to an existing manual that includes major content and/or major format changes. The manual is distributed in its entirety. All the revision dates are the same and no change bars are used.
  - (c) Major Revision is a revision to an existing manual that includes major content or minor format changes over a large portion of the manual. The manual is distributed in its entirety. All the revision dates are the same, but change bars are used to indicate the changes incorporated in the latest revision of the manual.

NOTE: No change bars are used in the specific application information pages of this manual. Refer to the “Rev.” and “Date” fields of each individual application entry as an indicator of updated information since the previous published revision.

- (d) Minor Revision is a revision to an existing manual that includes minor content changes to the manual. Only the revised pages of the manual are distributed. Each page retains the date and the change bars associated with the last revision to that page.

| <u>Revision No.</u> | <u>Issue Date</u> | <u>Comments</u> |
|---------------------|-------------------|-----------------|
| Rev. 1              | Jul/02            | Major Revision  |
| Rev. 2              | Feb/04            | Reissue         |
| Rev. 3              | Oct/04            | Major Revision  |
| Rev. 4              | Apr/05            | Major Revision  |
| Rev. 5              | Jun/05            | Major Revision  |
| Rev. 6              | Dec/06            | Major Revision  |
| Rev. 7              | Oct/07            | Major Revision  |
| Rev. 8              | Apr/08            | Major Revision  |
| Rev. 9              | Oct/08            | Major Revision  |
| Rev. 10             | Feb/09            | Major Revision  |
| Rev. 11             | Apr/09            | Major Revision  |
| Rev. 12             | Aug/09            | Major Revision  |
| Rev. 13             | Oct/09            | Major Revision  |
| Rev. 14             | Dec/09            | Major Revision  |
| Rev. 15             | Feb/10            | Major Revision  |
| Rev. 16             | Apr/10            | Major Revision  |
| Rev. 17             | Jun/10            | Major Revision  |
| Rev. 18             | Aug/10            | Major Revision  |
| Rev. 19             | Oct/10            | Major Revision  |
| Rev. 20             | Dec/10            | Major Revision  |
| Rev. 21             | Feb/11            | Major Revision  |
| Rev. 22             | Apr/11            | Major Revision  |
| Rev. 23             | Jun/11            | Major Revision  |
| Rev. 24             | Aug/11            | Major Revision  |
| Rev. 25             | Oct/11            | Major Revision  |
| Rev. 26             | Dec/11            | Major Revision  |
| Rev. 27             | Feb/12            | Major Revision  |
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| Rev. 29             | Jun/12            | Major Revision  |
| Rev. 30             | Aug/12            | Major Revision  |
| Rev. 31             | Oct/12            | Major Revision  |
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| Rev. 33             | Feb/13            | Major Revision  |
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| Rev. 35             | Jun/13            | Major Revision  |
| Rev. 36             | Aug/13            | Major Revision  |
| Rev. 37             | Oct/13            | Major Revision  |
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| Rev. 39             | Feb/14            | Major Revision  |
| Rev. 40             | Apr/14            | Major Revision  |
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| Rev. 46             | Apr/15            | Major Revision  |

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| Rev. 47             | Jun/15            | Major Revision  |
| Rev. 48             | Aug/15            | Major Revision  |
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| Rev. 50             | Dec/15            | Major Revision  |
| Rev. 51             | Feb/16            | Major Revision  |
| Rev. 52             | Apr/16            | Major Revision  |
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| Rev. 62             | Feb/18            | Major Revision  |
| Rev. 63             | May/18            | Major Revision  |
| Rev. 64             | Aug/18            | Major Revision  |
| Rev. 65             | Nov/18            | Major Revision  |
| Rev. 66             | Feb/19            | Major Revision  |
| Rev. 67             | May/19            | Major Revision  |
| Rev. 68             | Aug/19            | Major Revision  |
| Rev. 69             | Nov/19            | Major Revision  |
| Rev. 70             | Feb/20            | Major Revision  |
| Rev. 71             | May/20            | Major Revision  |
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| Rev. 74             | Feb/21            | Major Revision  |
| Rev. 75             | May/21            | Major Revision  |
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| Rev. 77             | Aug/21            | Major Revision  |
| Rev. 78             | Nov/21            | Major Revision  |
| Rev. 79             | Feb/22            | Major Revision  |
| Rev. 80             | May/22            | Major Revision  |
| Rev. 81             | Aug/22            | Major Revision  |
| Rev. 82             | Nov/22            | Major Revision  |

RECORD OF REVISIONS

This is a record of revisions inserted into this manual.  
Revision 82 includes all prior revisions.

| <b>Revision Number</b> | <b>Issue Date</b> | <b>Date Inserted</b> | <b>Inserted By</b> |
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**1. General****A. Statement of Purpose**

- (1) The purpose of this publication is to provide a summary of information for existing aircraft applications that use Hartzell Propeller Inc. propellers.
- (2) This publication is compiled and issued by Hartzell Propeller Inc., Piqua, OH.
- (3) This manual is to be used in propeller repair stations by personnel that are trained and experienced with Hartzell Propeller Inc. products.
  - (a) This manual does not provide complete information for an inexperienced technician to attempt propeller overhaul without supervision.
- (4) This manual does not contain propeller or blade overhaul procedures. Refer to the appropriate Hartzell Propeller Inc. manual for propeller or blade overhaul.
- (5) This manual makes reference to other Hartzell Propeller Inc. manuals that provide important details for procedures such as anodizing, penetrant inspection, and overhaul procedures for hub units.
- (6) Where possible, this manual is written in the format specified by ATA iSpec 2200.
- (7) This manual contains an Appendix chapter that is meant to be used as a quick reference to more detailed information contained in the Application Information chapter of this manual.

## 2. Disclaimer

**WARNING:** ANY PART IDENTIFIED IN THIS MANUAL AS AN EXPERIMENTAL OR NON-AVIATION PART MUST NOT BE USED IN AN FAA OR INTERNATIONAL EQUIVALENT TYPE CERTIFICATED PROPELLER. A PART IDENTIFIED AS EXPERIMENTAL OR NON-AVIATION DOES NOT HAVE FAA OR INTERNATIONAL EQUIVALENT APPROVAL. USE ONLY THE APPROVED ILLUSTRATED PARTS LIST PROVIDED IN THE APPLICABLE OVERHAUL MANUAL OR ADDITIONAL PARTS APPROVED BY AN FAA ACCEPTED DOCUMENT FOR ASSEMBLY OF A PROPELLER. THE OPERATOR ASSUMES ALL RISK ASSOCIATED WITH THE USE OF EXPERIMENTAL PARTS. USE OF EXPERIMENTAL PARTS ON AN AIRCRAFT MAY RESULT IN DEATH, SERIOUS BODILY INJURY, AND/OR SUBSTANTIAL PROPERTY DAMAGE.

- A. The information in this publication is FAA accepted technical data. Because the information contained in this document is frequently changing, always consult Hartzell Propeller Inc. service manuals, aircraft and propeller Type Certificates (TC), Supplemental Type Certificates (STC), and/or engineering blueprints for precise and accurate information when determining installation eligibility. If installation eligibility is not identifiable, an additional installation approval, such as a FAA Form 337 field approval or Supplemental Type Certificate may be required. TC and STC holders may change an STC without notifying Hartzell Propeller Inc., and this can result in a change to data or installation eligibility contained in this manual that is not known to Hartzell Propeller Inc.
- B. This publication contains only Placard/Restriction information known to Hartzell Propeller Inc. Although the Placard/Restriction field may be blank you must check for other placards or restrictions required by the aircraft manufacturer or by FAA documents such as Type Certificate Data Sheets, Supplemental Type Certificates, and Airworthiness Directives. Always consult all available sources to verify placards and restrictions that might affect propeller operation.
- C. The approved de-ice boots, anti-icing boot, de-ice kits, and anti-ice kits are supplied for the applications in this manual. Refer to Hartzell Propeller Inc. Propeller Ice Protection System Manual 180 (30-61-80) for approved components of these kits. Hartzell Propeller Inc. Service Letters HC-SL-30-259 and HC-SL-30-260 provide additional listings of approved de-ice and anti-ice components.
- D. Please bring errors to our attention by contacting the Hartzell Propeller Inc. Product Support Department, including the approved source where correct information can be verified.
- E. **Information in all chapters of this manual is subject to change and may not be complete or current.**
- F. This application guide replaces all previous application guide data provided by Hartzell Propeller Inc.



3. Reference Publications

## A. Hartzell Propeller Inc. Publications

- (2) Information published in Service Bulletins, Service Letters, Service Advisories, and Service Instructions may supersede information published in this manual. The reader must consult active Service Bulletins, Service Letters, Service Advisories, and Service Instructions for information that may have not yet been incorporated into the latest revision of this manual.
- (2) In addition to this manual, the propeller owner's manual, the propeller overhaul manual, and one or more of the following publications are required for information regarding specific recommendations and procedures to maintain propeller assemblies that are included in this manual.

| <b>Manual No.<br/>(ATA No.)</b> | <b>Available at<br/>www.hartzellprop.com</b> | <b>Hartzell Propeller Inc. Manual Title</b>   |
|---------------------------------|--|---|
| n/a                             | Yes  | Active Hartzell Propeller Inc. Service Bulletins, Service Letters, Service Instructions, and Service Advisories |
| Manual 127<br>(61-16-27)        | Yes  | Metal Spinner Maintenance Manual  |
| Manual 133C<br>(61-13-33)       | -  | Aluminum Blade Overhaul Manual  |
| Manual 135F<br>(61-13-35)       | -  | Composite Propeller Blade Maintenance Manual  |
| Manual 148<br>(61-16-48)        | Yes  | Composite Spinner Maintenance Manual  |
| Manual 165A<br>(61-00-65)       | Yes  | Illustrated Tool and Equipment Manual   |
| Manual 180<br>(30-61-80)        | Yes  | Propeller Ice Protection System Manual  |
| Manual 202A<br>(61-01-02)       | Vol. 7, Yes                                  | Standard Practices Manual,<br>Volumes 1 through 11  |

## B. Vendor Publications

None.

**4. Personnel Requirements** (Rev. 1)**A. Service and Maintenance Procedures in this Manual**

- (1) Personnel performing the service and maintenance procedures in this manual are expected to have the required equipment/tooling, training, and certifications (when required by the applicable Aviation Authority) to accomplish the work in a safe and airworthy manner.
- (2) Compliance to the applicable regulatory requirements established by the Federal Aviation Administration (FAA) or international equivalent is mandatory for anyone performing or accepting responsibility for any inspection and/or repair of any Hartzell Propeller Inc. product.
  - (a) Maintenance records must be kept in accordance with the requirements established by the Federal Aviation Administration (FAA) or international equivalent.
  - (b) Refer to Federal Aviation Regulation (FAR) Part 43 for additional information about general aviation maintenance requirements.

**5. Propeller Model Designation**

- A. For propeller model designations, refer to the applicable propeller owner's manual.

**6. Aluminum Blade Model Designation**

- A. Refer to Hartzell Propeller Inc. Aluminum Blade Manual 133C (61-13-33) and the applicable propeller owner's manual for aluminum blade model designations.

**7. Aluminum Blade Shank Designs**

- A. Refer to Hartzell Propeller Inc. Aluminum Blade Manual 133C (61-13-33) and the applicable propeller owner's manual for aluminum blade model designations.

**8. Composite Blade Models**

- A. Refer to Hartzell Propeller Inc. Composite Blade Manual 135F (61-13-35) and the applicable propeller owner's manual for composite blade model designations.

9. Propeller Critical Parts (Rev. 1)

## A. Propeller Critical Parts

- (1) Procedures in this manual may involve Propeller Critical Parts (PCP).
  - (a) These procedures have been substantiated based on Engineering analysis that expects this product will be operated and maintained using the procedures and inspections provided in the Instructions for Continued Airworthiness (ICA) for this product.
  - (b) Refer to the Illustrated Parts List chapter for the applicable Hartzell Propeller Inc. maintenance manual to identify the Propeller Critical Parts.
- (2) Numerous propeller system parts can produce an aircraft Major or Hazardous effect, even though those parts may not be considered as Propeller Critical Parts.
  - (a) The operating and maintenance procedures and inspections provided in the ICA for this product are, therefore, expected to be accomplished for all propeller system parts.

10. Hartzell Propeller Inc. Contact Information (Rev. 2)

## A. Product Support Department

- (1) Contact the Product Support Department of Hartzell Propeller Inc. about any maintenance problems or to request information not included in this publication.

NOTE: When calling from outside the United States, dial (001) before dialing the above telephone numbers.

- (a) Hartzell Propeller Inc. Product Support may be reached during business hours (8:00 a.m. through 5:00 p.m., United States Eastern Time) at (937) 778-4379 or at (800) 942-7767, toll free from the United States and Canada.

- (b) Hartzell Propeller Inc. Product Support can also be reached by fax at (937) 778-4215, and by e-mail at [techsupport@hartzellprop.com](mailto:techsupport@hartzellprop.com).

- (c) After business hours, you may leave a message on our 24 hour product support line at (937) 778-4376 or at (800) 942-7767, toll free from the United States and Canada.

- 1 A technical representative will contact you during normal business hours.

- 2 Urgent AOG support is also available 24 hours per day, seven days per week via this message service.

- (d) Additional information is available on the Hartzell Propeller Inc. website at [www.hartzellprop.com](http://www.hartzellprop.com).

## B. Technical Publications Department

- (1) For Hartzell Propeller Inc. service literature and revisions, contact:

|   |  |
|---|--|
| Hartzell Propeller Inc.                 | Telephone: 937.778.4200  |
| Attn: Technical Publications Department | Fax: 937.778.4215  |
| One Propeller Place                     | E-mail: <a href="mailto:manuals@hartzellprop.com">manuals@hartzellprop.com</a> |
| Piqua, Ohio 45356-2634 U.S.A.           |  |

## C. Recommended Facilities

- (1) Hartzell Propeller Inc. recommends using Hartzell-approved distributors and repair facilities for the purchase, repair, and overhaul of Hartzell propeller assemblies or components.
- (2) Information about the Hartzell Propeller Inc. worldwide network of aftermarket distributors and approved repair facilities is available on the Hartzell website at [www.hartzellprop.com](http://www.hartzellprop.com).

11. Definitions (Rev. 4)

A basic understanding of the following terms will assist in maintaining and operating Hartzell Propeller Inc. propeller systems.

| <b>Term</b>           | <b>Definition</b>  |
|-----------------------|--|
| Annealed              | Softening of material due to overexposure to heat  |
| Aviation Certified    | Intended for FAA or international equivalent type certificated aircraft applications. A TC and PC number must be stamped on the hub, and a PC number must be stamped on blades.  |
| Aviation Experimental | Intended for aircraft/propeller applications not certified by the FAA or international equivalent. Products marked with an "X" at or near the end of the model number or part number are not certified by the FAA or international equivalent and are not intended to use on certificated aircraft.  |
| Beta Operation        | A mode of pitch control that is directed by the pilot rather than by the propeller governor  |
| Beta Range            | Blade angles between low pitch and maximum reverse blade angle   |
| Beta System           | Parts and/or equipment related to operation (manual control) of propeller blade angle between low pitch blade angle and full reverse blade angle   |
| Blade Angle           | Measurement of blade airfoil location described as the angle between the blade airfoil and the surface described by propeller rotation   |
| Blade Centerline      | An imaginary reference line through the length of a blade around which the blade rotates   |
| Blade Station         | Refers to a location on an individual blade for blade inspection purposes. It is a measurement from the blade "zero" station to a location on a blade, used to apply blade specification data in blade overhaul manuals.<br><b>Note:</b> Do not confuse <i>blade station</i> with <i>reference blade radius</i> ; they may not originate at the same location. |
| Blemish               | An imperfection with visible attributes, but having no impact on safety or utility   |
| Brinelling            | A depression caused by failure of the material in compression  |

| Term                 | Definition  |
|----------------------|---|
| Bulge                | An outward curve or bend  |
| Camber               | The surface of the blade that is directed toward the front of the aircraft. It is the low pressure, or suction, side of the blade. The camber side is convex in shape over the entire length of the blade.  |
| Chord                | A straight line distance between the leading and trailing edges of an airfoil   |
| Chordwise            | A direction that is generally from the leading edge to the trailing edge of an airfoil  |
| Co-bonded            | The act of bonding a composite laminate and simultaneously curing it to some other prepared surface   |
| Composite Material   | Kevlar <sup>®</sup> , carbon, or fiberglass fibers bound together with, or encapsulated within an epoxy resin   |
| Compression Rolling  | A process that provides improved strength and resistance to fatigue   |
| Constant Force       | A force that is always present in some degree when the propeller is operating   |
| Constant Speed       | A propeller system that employs a governing device to maintain a selected engine RPM  |
| Corrosion (Aluminum) | The chemical or electrochemical attack by an acid or alkaline that reacts with the protective oxide layer and results in damage of the base aluminum. Part failure can occur from corrosion due to loss of structural aluminum converted to corrosion product, pitting, a rough etched surface finish, and other strength reduction damage caused by corrosion.   |
| Corrosion (Steel)    | Typically, an electrochemical process that requires the simultaneous presence of iron (component of steel), moisture and oxygen. The iron is the reducing agent (gives up electrons) while the oxygen is the oxidizing agent (gains electrons). Iron or an iron alloy such as steel is oxidized in the presence of moisture and oxygen to produce rust. Corrosion is accelerated in the presence of salty water or acid rain. Part failure can occur from corrosion due to loss of structural steel converted to corrosion product, pitting, a rough etched surface finish and other strength reduction damage caused by corrosion. |

| Term                         | Definition  |
|------------------------------|---|
| Corrosion Product (Aluminum) | A white or dull gray powdery material that has an increased volume appearance (compared to non-corroded aluminum). Corrosion product is not to be confused with damage left in the base aluminum such as pits, worm holes, and etched surface finish.   |
| Corrosion Product (Steel)    | When iron or an iron alloy such as steel corrodes, a corrosion product known as rust is formed. Rust is an iron oxide which is reddish in appearance and occupies approximately six times the volume of the original material. Rust is flakey and crumbly and has no structural integrity. Rust is permeable to air and water, therefore the interior metallic iron (steel) beneath a rust layer continues to corrode. Corrosion product is not to be confused with damage left in the base steel such as pits and etched surface finish. |
| Crack                        | Irregularly shaped separation within a material, sometimes visible as a narrow opening at the surface   |
| Debond                       | Separation of two materials that were originally bonded together in a separate operation  |
| Defect                       | An imperfection that affects safety or utility  |
| Delamination                 | Internal separation of the layers of composite material   |
| Dent                         | The permanent deflection of the cross section that is visible on both sides with no visible change in cross sectional thickness   |
| Depression                   | Surface area where the material has been compressed but not removed   |
| Distortion                   | Alteration of the original shape or size of a component   |
| Edge Alignment               | Distance from the blade centerline to the leading edge of the blade   |
| Erosion                      | Gradual wearing away or deterioration due to action of the elements   |
| Exposure                     | Leaving material open to action of the elements   |

| Term                       | Definition  |
|----------------------------|---|
| Face                       | The surface of the blade that is directed toward the rear of the aircraft. The face side is the high pressure, or thrusting, side of the blade. The blade airfoil sections are normally cambered or curved such that the face side of the blade may be flat or even concave in the midblade and tip region. |
| Face Alignment             | Distance from the blade centerline to the highest point on the face side perpendicular to the chord line  |
| Feathering                 | The capability of blades to be rotated parallel to the relative wind, thus reducing aerodynamic drag  |
| Fraying                    | A raveling or shredding of material   |
| Fretting                   | Damage that develops when relative motion of small displacement takes place between contacting parts, wearing away the surface  |
| Galling                    | To fret or wear away by friction  |
| Gouge                      | Surface area where material has been removed  |
| Hazardous Propeller Effect | The hazardous propeller effects are defined in Title 14 CFR section 35.15(g)(1)   |
| Horizontal Balance         | Balance between the blade tip and the center of the hub   |
| Impact Damage              | Damage that occurs when the propeller blade or hub assembly strikes, or is struck by, an object while in flight or on the ground  |
| Inboard                    | Toward the butt of the blade  |
| Intergranular Corrosion    | Corrosion that attacks along the grain boundaries of metal alloys   |
| Jog                        | A term used to describe movement up/down, left/right, or on/off in short incremental motions  |
| Laminate                   | To unite composite material by using a bonding material, usually with pressure and heat   |
| Lengthwise                 | A direction that is generally parallel to the pitch axis  |
| Loose Material             | Material that is no longer fixed or fully attached  |
| Low Pitch                  | The lowest blade angle attainable by the governor for constant speed operation  |



| Term                      | Definition  |
|---------------------------|---|
| Major Propeller Effect    | The major propeller effects are defined in Title 14 CFR section 35.15(g)(2)   |
| Minor Deformation         | Deformed material not associated with a crack or missing material   |
| Monocoque                 | A type of construction in which the outer skin carries all or a major part of the load  |
| Nick                      | Removal of paint and possibly a small amount of material  |
| Non-Aviation Certified    | Intended for non-aircraft application, such as Hovercraft or Wing in Ground Effect (WIG) applications. These products are certificated by an authority other than FAA. The hub and blades will be stamped with an identification that is different from, but comparable to TC and PC. |
| Non-Aviation Experimental | Intended for non-aircraft application, such as Hovercraft or Wing-In-Ground effect (WIG) applications. Products marked with an "X" at or near the end of the model number or part number are not certified by any authority and are not intended for use on certificated craft.       |
| Onspeed                   | Condition in which the RPM selected by the pilot through the propeller control/condition lever and the actual engine (propeller) RPM are equal  |
| Open Circuit              | Connection of high or infinite resistance between points in a circuit which are normally lower  |
| Outboard                  | Toward the tip of the blade   |
| Overhaul                  | The periodic disassembly, inspection, repair, refinish, and reassembly of a propeller assembly to maintain airworthiness  |
| Overspeed                 | Condition in which the RPM of the propeller or engine exceeds predetermined maximum limits; the condition in which the engine (propeller) RPM is higher than the RPM selected by the pilot through the propeller control/condition lever  |
| Pitch                     | Same as "Blade Angle"   |
| Pitting                   | Formation of a number of small, irregularly shaped cavities in surface material caused by corrosion or wear   |

| Term                     | Definition   |
|--------------------------|--|
| Pitting (Linear)         | The configuration of the majority of pits forming a pattern in the shape of a line   |
| Porosity                 | An aggregation of microvoids. See “voids”.   |
| Propeller Critical Parts | A part on the propeller whose primary failure can result in a hazardous propeller effect, as determined by the safety analysis required by Title 14 CFR section 35.15  |
| Reference Blade Radius   | Refers to the propeller reference blade radius in an assembled propeller, e.g., 30-inch radius. A measurement from the propeller hub centerline to a point on a blade, used for blade angle measurement in an assembled propeller. An adhesive stripe (blade angle reference tape CM160) is usually located at the reference blade radius location.<br><u>Note:</u> Do not confuse <i>reference blade radius</i> with <i>blade station</i> ; they may not originate at the same point. |
| Reversing                | The capability of rotating blades to a position to generate reverse thrust to slow the aircraft or back up   |
| Scratch                  | Same as “Nick”   |
| Short Circuit            | Connection of low resistance between points on a circuit between which the resistance is normally much greater   |
| Shot Peening             | Process where steel shot is impinged on a surface to create compressive surface stress, that provides improved strength and resistance to fatigue  |
| Single Acting            | Hydraulically actuated propeller that utilizes a single oil supply for pitch control   |
| Split                    | Delamination of blade extending to the blade surface, normally found near the trailing edge or tip   |
| Station Line             | See "Blade Station"  |
| Synchronizing            | Adjusting the RPM of all the propellers of a multi-engine aircraft to the same RPM   |
| Synchrophasing           | A form of propeller sychronization in which not only the RPM of the engines (propellers) are held constant, but also the position of the propellers in relation to each other  |
| Ticking                  | A series of parallel marks or scratches running circumferentially around the diameter of the blade   |

| Term                      | Definition   |
|---------------------------|--|
| Track                     | In an assembled propeller, a measurement of the location of the blade tip with respect to the plane of rotation, used to verify face alignment and to compare blade tip location with respect to the locations of the other blades in the assembly |
| Trailing Edge             | The aft edge of an airfoil over which the air passes last  |
| Trimline                  | Factory terminology referring to where the part was trimmed to length  |
| Underspeed                | The condition in which the actual engine (propeller) RPM is lower than the RPM selected by the pilot through the propeller control/condition lever   |
| Unidirectional Material   | A composite material in which the fibers are substantially oriented in the same direction  |
| Variable Force            | A force that may be applied or removed during propeller operation  |
| Vertical Balance          | Balance between the leading and trailing edges of a two-blade propeller with the blades positioned vertically  |
| Voids                     | Air or gas that has been trapped and cured into a laminate   |
| Windmilling               | The rotation of an aircraft propeller caused by air flowing through it while the engine is not producing power   |
| Woven Fabric              | A material constructed by interlacing fiber to form a fabric pattern   |
| Wrinkle (aluminum blade)  | A wavy appearance caused by high and low material displacement   |
| Wrinkle (composite blade) | Overlap or fold within the material  |

12. Abbreviations (Rev. 2)

| <b>Abbreviation</b> | <b>Term</b>                              |
|---------------------|--|
| AD                  | Airworthiness Directives                 |
| AMM                 | Aircraft Maintenance Manual              |
| AOG                 | Aircraft on Ground                       |
| AR                  | As Required                              |
| ATA                 | Air Transport Association                |
| CSU                 | Constant Speed Unit                      |
| FAA                 | Federal Aviation Administration          |
| FH                  | Flight Hour                              |
| FM                  | Flight Manual                            |
| FMS                 | Flight Manual Supplement                 |
| Ft-Lb               | Foot-Pound                               |
| HMI                 | Human Machine Interface                  |
| ICA                 | Instructions for Continued Airworthiness |
| ID                  | Inside Diameter                          |
| In-Lb               | Inch-Pound                               |
| IPL                 | Illustrated Parts List                   |
| IPS                 | Inches Per Second                        |
| kPa                 | Kilopascals                              |
| Lb(s)               | Pound(s)                                 |
| Max.                | Maximum                                  |
| Min.                | Minimum                                  |
| MIL-X-XXX           | Military Specification                   |
| MPI                 | Major Periodic Inspection (Overhaul)     |
| MS                  | Military Standard                        |
| MSDS                | Material Safety Data Sheet               |
| N                   | Newtons                                  |

| <b>Abbreviation</b> | <b>Term</b>                                    |
|---------------------|--|
| N/A                 | Not Applicable                                 |
| NAS                 | National Aerospace Standards                   |
| NASM                | National Aerospace Standards, Military         |
| NDT                 | Nondestructive Testing                         |
| NIST                | National Institute of Standards and Technology |
| N•m                 | Newton-Meters                                  |
| OD                  | Outside Diameter                               |
| OPT                 | Optional                                       |
| PC                  | Production Certificate                         |
| PCP                 | Propeller Critical Part                        |
| PLC                 | Programmable Logic Controller                  |
| PMB                 | Plastic Media Blasting (Cleaning)              |
| POH                 | Pilot's Operating Handbook                     |
| PSI                 | Pounds per Square Inch                         |
| RF                  | Reference                                      |
| RPM                 | Revolutions per Minute                         |
| SAE                 | Society of Automotive Engineers                |
| STC                 | Supplemental Type Certificate                  |
| TBO                 | Time Between Overhaul                          |
| TC                  | Type Certificate                               |
| TSI                 | Time Since Inspection                          |
| TSN                 | Time Since New                                 |
| TSO                 | Time Since Overhaul                            |
| UID                 | Unique Identification                          |
| WIG                 | Wing-In-Ground-Effect                          |
| UID                 | Unique Identification                          |
| WIG                 | Wing-In-Ground-Effect                          |

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### 1. Application Information

#### A. Data Field Definition

The data in the Application Information chapter of this manual is sorted according to Aircraft Manufacturer. This chapter contains the following installation data:

- IDS NO.: Installation reference identification number
- REV.: Revision level of the IDS
- DATE: Effective date of individual installation information, referenced by IDS NO.

NOTE 1: In lieu of change bars, this date will identify when a change has been made to information contained within an individual installation record.

NOTE 2: The date field on some older installation records may be blank, indicating that the original date of origin is not available.

- MODEL: Aircraft manufacturer, model & trade name of the aircraft. The most commonly associated manufacturer's name is used, for example, aircraft are listed in this guide under "Beech" as opposed to "Raytheon Aircraft Corp."
  - TRADE NAME: Aircraft manufacturer's trade name
  - AIRCRAFT TC/STC NO: Aircraft Type certificate or Supplemental Type Certificate Number with modifier or STC holder name
  - PROPELLER MODEL: Propeller model number
  - PROPELLER T.C: Propeller Type Certificate Data Sheet Number
  - BLADE MODEL(S): Approved blade model(s) number for an installation
- NOTE: An asterisk (\*) and number following the blade model number indicates a specific change in the individual blade model. For information pertaining to a specific blade model, refer to the applicable Blade Overhaul Manual.
- PROPELLER DIAMETER: Propeller diameter or diameter range
  - MODIFIER Supplemental Type Certificate holder
  - ENGINE: Engine manufacturer and engine model

- POWER: Propeller horsepower and max. RPM for application
- PLACARD/RESTRICTIONS: Placard information, restrictions and airworthiness limitations, if applicable
- REF. RADIUS: Propeller reference station (not blade station) for blade angle setup
- REVERSE ANGLE: Reverse blade angle if applicable
- LOW PITCH ANGLE: Low pitch angle or low pitch pickup (Garrett TPE331 and Allison 250-B17 engine installations cannot be set on the propeller assembly, they require low pitch to be set on the aircraft and angles must be obtained from aircraft maintenance or flight manual)
- START LOCK ANGLE: Start lock angle (also previously referred to as high pitch stop for piston engine feathering propellers)
- FEATHER/HIGH ANGLE: High pitch or feather angle
- CWT. ANGLE: Counterweight angle measurement is required only when assembling counterweighted steel hub propellers and is measured with the propeller in full reverse (or low pitch for propellers with no reverse setting). Counterweight angle must be **positive** (0.0° or greater) unless a specific angle is given.  
NOTE: No measurement is required for aluminum hub propellers therefore no setting is given in the Cwt Angle field.
- NON-HPI SPINNER: Non-Hartzell Propeller Inc. Spinner assembly if applicable
- NON-HPI GOVERNOR: Non-Hartzell Propeller Inc. governor model if applicable
- HARTZELL APPROVED ITEMS: A list of all Hartzell Propeller Inc. parts (items) that are approved for a given installation. Refer to the Hartzell Propeller Inc. Approved Items section in this chapter for additional information.

**B. Propeller Part Number**

- (1) The Propeller Part Number (Hartzell Propeller Inc. Approved Items section) contains a unique part number that is applicable to the exact propeller model and blade model number identified in the PROPELLER column. A propeller model, e.g., HC-C2YR-1RF, may have numerous propeller part numbers, e.g., C2R00019, C2R00020 and C2R00021, because of differences in blade angles, blade color, tip stripe, de-ice boot location, counterweights and weight slugs. To depict these differences, a unique propeller part number is assigned in addition to the propeller model number. This part number is a unique part number assigned by Hartzell Propeller Inc. and is for ordering purposes only. These part numbers do not appear on Type Certificate Data Sheets. In most cases, the propeller part number does not include the spinner assembly, and the spinner assembly must be ordered as a separate item.

NOTE: If desired, the propeller may be ordered partially disassembled for shipping purposes. If a partially disassembled prop is to be ordered, please add the letters "KD" to the Propeller Part Number, e.g., C2R00019KD.

- (2) A propeller part number, when applicable, may be used to order the exact propeller and blade model identified in the DESCRIPTION column of the list of Hartzell Propeller Inc. Approved Items.

NOTE: The first time an order is received for a specific application, the new propeller part number is created by the customer support representative and product support.

**C. Propeller Model**

- (1) The propeller model designation shown is normally that which is listed in the FAA Aircraft Type Certificate Data Sheets for that particular application. Consideration must be made for superseded models. For instance, a Type Certificate may specify a HC-82X20-2 propeller, but changes such as conversion from "X" shank to "V" or "MV" are approved by the Propeller Type Certificate. There may also be later approved hub designs that are interchangeable, such as a HC-A2V20-2. Such interchangeability is approved by the Propeller Type Certificate when the older design is replaced by the later. If the later design is specified in the aircraft TC the older design may not be substituted.
- (2) Parentheses shown in the model designations in this or other Hartzell Propeller Inc. publications indicate letter(s) and/or number(s) that may or may not be present because of different configurations permitted on the various aircraft installations. Definitions of propeller model designations and further details of letters that may be present are shown in the Introduction chapter of this manual.

**D. Propeller Diameter**

- (1) The diameter listed is normally the diameter range specified in the Type Certificate Data Sheet. Many applications, such as STC installations, often do not specify a diameter reduction to allow repairs. In the absence of a minimum diameter, it must be assumed that no diameter reduction is allowed.

**E. Spinners**

- (1) Many applications, such as Cessna and Piper, do not always use Hartzell Propeller Inc. spinners with Hartzell Propeller Inc. propellers and often use spinners of their own manufacture (Non-HPI Spinner). This may be listed in the aircraft Type Certificate. Also many STC, experimental, or home built aircraft used spinners of other manufacture or modified existing ones. Where the spinner is not listed, the exact model is unknown to Hartzell Propeller Inc. and the aircraft manufacturer or STC holder should be contacted for additional information.

**F. Governors**

- (1) Hartzell Propeller Inc. governor models are listed in the Hartzell Propeller Inc. Approved Items when their use is known. Hartzell Propeller Inc. only produces reciprocating engine governors. Turbine engine governors are normally manufactured by Woodward. Other governors may be listed by their manufacturer and model number for reference, or just manufacturer when the model number is unknown (Non-HPI Governor). When blank, the governor used in that application is either not manufactured by Hartzell Propeller Inc. or is unknown. Often the aircraft TC will list the governor and if not, the aircraft manufacturer should be consulted for further information.
- (2) A Supplemental Type Certificate does not always specify the governor model and many STC's that replace propellers of other manufacture with Hartzell Propeller Inc. models will use the original governor. The STC holder must be contacted to verify the governor model if it is not listed. Also, experimental or home built aircraft may have a specific engine/governor combination recommended by the manufacturer and combinations other than those recommended by the manufacturer would be unknown to Hartzell Propeller Inc. if not referenced in this section.

## G. Ice Protection Systems

- (1) For ice protection systems supplied by Hartzell, refer to Hartzell Propeller Inc. Ice Protection System Manual 180 (30-61-80).
- (2) For ice protection systems not supplied by Hartzell, refer to the applicable TC or STC holder's Instructions for Continued Airworthiness (ICA).

## H. Application Information Listing

- (1) The pages in this chapter display specific application information pertaining to approved Hartzell Propeller Inc. propeller installations. For ease of use, the data is arranged alphabetically into sections A through Z, according to Aircraft manufacturer name. It is then sorted according to Aircraft Model.

NOTE: Information listed for a given application may be more than one page in length.

## I. Hartzell Propeller Inc. Approved Items

Each installation data sheet contained in this chapter provides a list of Hartzell Propeller Inc. items (parts) that are approved for that specific installation. The following information is displayed in the approved items section:

- **ITEM TYPE:** General description of how a Hartzell Propeller Inc. item is used on an individual installation
- **ITEM NUMBER:** Hartzell Propeller Inc. part number for an item that is approved for an individual installation

NOTE: An asterisk ( \* ) and number to the right of the blade item number are added when there is a difference in paint, de-ice, or counterweight from the "standard" blade configuration. The specific meaning applies only to an individual blade configuration and does not necessarily represent the same change(s) in blade design for other blade models. For specific blade information, refer to the Blade Finish Table in the Paint and Finish chapter of Hartzell Propeller Inc. Standard Practices Manual 202A (61-01-02).

- DESCRIPTION: Detailed description of a Hartzell Propeller Inc. item that is approved for an individual installation
  - NOTE 1: The description "IDS(\*) Item" denotes that an item is not a current production item and may not be available for purchase. If the item is available for purchase, additional manufacturing lead time may be required. Contact Hartzell Propeller Inc. for more information.
  - NOTE 2: The description in this field may also contain a prefix "PCP:", which identifies the approved item as a Propeller Critical Part. Refer to the Introduction Chapter of this manual for information about Propeller Critical Parts. Note that Propeller Critical Parts shown in this manual is not a complete or comprehensive list of Hartzell Propeller Inc. Critical Parts.
- QUANTITY: Quantity of the item that is required per assembly or subassembly for an individual installation
- QTY PER: Designates the assembly or subassembly for which the quantity of the Hartzell Propeller Inc. approved item applies
- COMMENTS: Additional information that pertains to an individual Hartzell Propeller Inc. approved item

## 2. Blade Configuration Information

### A. Important Information

- (1) The Blade Configuration chapter that was previously contained in this manual has been relocated. Refer to the Paint and Finish chapter of Hartzell Propeller Inc. Standard Practices Manual 202A (61-01-02) for blade paint finish schemes.
- (2) For de-ice and anti-ice boot location information, refer to the Hartzell Propeller Inc. Propeller Ice Protection System Manual 180 (30-61-80) - Available on the Hartzell Propeller Inc. website at [www.hartzellprop.com](http://www.hartzellprop.com).

### 3. Spinner Assembly and Spinner Mounting Kit Information

#### A. Spinner Assembly

- (1) For metal spinner assembly information, refer to Hartzell Propeller Inc. Metal Spinner Maintenance Manual 127 (61-16-27).
- (2) For composite spinner assembly information, refer to Hartzell Propeller Inc. Composite Spinner Maintenance Manual 148 (61-16-48).

#### B. Spinner Mounting Kits

- (1) For spinner mounting kit information, refer to the Spinner Mounting Kits chapter of this manual.

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ADAM AIRCRAFT INDUSTRIES

IDS No.: 2455      Rev.: 1      IC      Date: 10/01/2015

**Model:** A500 (front)  
**Trade Name:** TRITON AEROSPACE  
**Aircraft T.C./STC:** A00009DE  
**Propeller Model:** PHC-H3YF-2UF  
**Propeller T.C.:** P35EA  
**Blade Model(s):** FC7693DF  
 FC7693DF\*2  
 FC7693DFK

**Modifier:**  
**Engine Model:** TSIO-550-E  
**Power:** 350 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Prop Diameter:** 78"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** 16.9 +-0.2  
**Stud Protrusion** 1.450 +-0.030

**Startlock Angle:** 23.0 +-1.5  
**Feather/High Angle:** 81.1 +2.0/-0.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>            | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|-------------------------------|-----------------|----------------|-----------------|
| PROPELLER        | H3F00050           | PHC-H3YF-2UF/FC7693DF[*2]/SM9 | 1               | A/C            |                 |
| PROPELLER        | H3F00059           | PHC-H3YF-2UF/FC7693DF/SM9     | 1               | A/C            |                 |
| PROPELLER        | H3F00550           | PHC-H3YF-2UF/FC7693DFK//SM9   | 0               |                |                 |
| BLADE            | FC7693DF           | PCP:BLADE UNIT, ALUM [1,1,1]  | 3               | Prop           |                 |
| BLADE            | FC7693DF*2         | PCP:BLADE UNIT, ALUM [6,1,1]  | 3               | Prop           |                 |
| BLADE            | FC7693DFK          | PCP:BLADE UNIT, ALUM [6,1,1]  | 3               | Prop           |                 |
| SPINNER          | D-4511-3P          | SPINNER ASSEMBLY              | 1               | Prop           |                 |
| SPIN MTG KIT     | A-2476-9           | SPINNER - MTG KIT             | 1               | Prop           |                 |
| COUNTERWEIGHT    | B-3202H-5          | PCP:COUNTERWEIGHT             | 1               | Blade          | Blade Component |
| DE-ICER          | 102510             | DE-ICE BOOT                   | 1               | Blade          |                 |
| DE-ICE KIT PR    | 102546-1           | DE-ICE KIT (ONE PROP)         | 1               | Prop           |                 |
| MTG BOLT/STUD    | A-2429-4           | STUD, MOUNTING, 1/2-20        | 6               | Prop           |                 |

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### ADAM AIRCRAFT INDUSTRIES

**Model:** A500 (REAR)  
**Trade Name:** TRITON AEROSPACE  
**Aircraft T.C./STC:** A00009DE  
**Propeller Model:** PHC-H3YF-2LUF  
**Propeller T.C.:** P35EA  
**Blade Model(s):** FLC7693DF  
**Prop Diameter:** 78"

**IDS No.:** 2456      **Rev.:** 1      **IC Date:** 10/01/2015

**Modifier:**  
**Engine Model:** TSIO-550-E  
**Power:** 350 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** 16.4 +-0.2  
**Stud Protrusion** 1.450 +-0.030

**Startlock Angle:** 23.0 +-1.5  
**Feather/High Angle:** 78.1 +-1.0  
**Cwt Angle:**

#### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:**

#### Hartzell Approved Items:

| Item Type     | Item Number | Description                   | Quantity | Qty Per | Comments        |
|---------------|-------------|-------------------------------|----------|---------|-----------------|
| PROPELLER     | H3F00073    | PHC-H3YF-2LUF/FLC7693DF/SM9   | 1        | A/C     |                 |
| BLADE         | FLC7693DF   | PCP:BLADE UNIT, ALUM [10,3,1] | 3        | Prop    |                 |
| SPINNER       | D-4511-3LP  | SPINNER ASSEMBLY              | 1        | Prop    |                 |
| SPIN MTG KIT  | A-2476-9    | SPINNER - MTG KIT             | 1        | Prop    |                 |
| COUNTERWEIGHT | B-3202H-5   | PCP:COUNTERWEIGHT             | 1        | Blade   | Blade Component |
| MTG BOLT/STUD | A-2429-4    | STUD, MOUNTING, 1/2-20        | 6        | Prop    |                 |

### Advanced Aero Components

**Model:** GLASAIR II, IIS  
**Trade Name:** Glasair II, IIS  
**Aircraft T.C./STC:** Experimental  
**Propeller Model:** HC-F2YR-1F  
**Propeller T.C.:** P27EA

**IDS No.:** 3758      **Rev.:** -      **IC Date:** 06/02/2020

**Modifier:**  
**Engine Model:** IO-360-B1E  
**Power:** 180 HP @ 2700 RPM  
**Placard/Restr:** Stabilized operation is prohibited above 25" manifold pressure between 2300-2550 RPM and below 15" manifold pressure above 2600 RPM

**Blade Model(s):** F7068-2  
**Prop Diameter:** 68"-67"

**Notes:** The "F" extension is for early Glasair II aircraft or Super II (IIS) aircraft with the extended cowling.

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.0 +-0.1  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 39.0 +-1.0  
**Cwt Angle:**

#### Non-HPI Items:

**Non-HPI Spinner:** Advanced Aero Components

**Non-HPI Governor:**

#### Hartzell Approved Items:

| Item Type     | Item Number   | Description                | Quantity | Qty Per | Comments                 |
|---------------|---------------|----------------------------|----------|---------|--------------------------|
| #Error        | S-1-91X       | GOVERNOR ASSEMBLY, S-1-91X | 1        |         |                          |
| PROPELLER     | F2R00069      | HC-F2YR-1F/F7068-2/SM8     | 1        | A/C     |                          |
| BLADE         | F7068-2       | PCP:BLADE UNIT, ALUMINUM   | 2        | Prop    |                          |
| SPIN MTG KIT  | A-2476-8      | SPINNER - MTG KIT          | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2067        | STUD, MOUNTING, 1/2-20     | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-F2YR-1F-OH | O/H KIT                    | 1        | Prop    | For aftermarket use only |

# HARTZELL

## APPLICATION GUIDE 159

**ADVANCED AERO. & STRUC., INC.**

IDS No.: 1055 Rev.: 2 IC Date: 03/08/2016

Model: 450  
Trade Name: JETCRUZER  
Aircraft T.C./STC: A49NM  
Propeller Model: HC-B3TN-3UL  
Propeller T.C.: P15EA  
Blade Model(s): LT10173N-21R  
Prop Diameter: 80.375" TO 79.375"

Modifier:  
Engine Model: PT6A-27  
Power: 599 HP @ 2200 RPM  
Placard/Restr:

Notes: Refer to Manual 139 for Airworthiness Limitations.

**Prop Setup:**

Ref. Radius: 30  
Reverse Angle: -13.0 +-0.5  
Low Pitch Angle: 19.0 +-0.1  
Stud Protrusion

Startlock Angle: NA  
Feather/High Angle: 82.1 +-0.5  
Cwt Angle: 3.0 +-1.0

**Non-HPI Items:**

Non-HPI Spinner:

Non-HPI Governor:

**Hartzell Approved Items:**

| Item Type                      | Item Number  | Description                       | Quantity | Qty Per | Comments |
|--------------------------------|--------------|-----------------------------------|----------|---------|----------|
| BLADE                          | LT10173N-21R | BLADE                             | 3        | Prop    |          |
| SPINNER                        | C-3065-3     | SPINNER ASSEMBLY                  | 1        | Prop    |          |
| COUNTERWEIGHT SLUG A-3039      |              | SLUG, COUNTERWEIGHT               | 1        | Blade   |          |
| COUNTERWEIGHT SLUG A-890-8     |              | PCP:SLUG, COUNTERWEIGHT           | 1        | Blade   |          |
| COUNTERWEIGHT SLUG B-3384-18H  |              | BOLT, 1/4-28, HEX HEAD            | 2        | Blade   |          |
| COUNTERWEIGHT SLUG B-3851-0432 |              | WASHER                            | 2        | Blade   | Optional |
| COUNTERWEIGHT SLUG B-3851-0463 |              | WASHER                            | 2        | Blade   | Optional |
| MTG BOLT/STUD                  | B-3339       | BOLT, MOUNTING, 9/16-18, 12 POINT | 8        | Prop    |          |

**AERMACCHI (AERONAUTICA MACCHI)**

IDS No.: 2080 Rev.: - DM Date: 11/20/2003

Model: AM-3  
Trade Name:  
Aircraft T.C./STC: A19EU  
Propeller Model: HC-83VK-4, HC-A3VK-4  
Propeller T.C.: P6EA  
Blade Model(s): V8833  
V8833N  
Prop Diameter: 88 3/8" TO 86 3/8"

Modifier:  
Engine Model: GTSIO-520-C  
Power: 340 HP @ 2400 RPM  
Placard/Restr:

Notes:

**Prop Setup:**

Ref. Radius: 30  
Reverse Angle: NA  
Low Pitch Angle: 15.0 +-0.2  
Stud Protrusion

Startlock Angle: NA  
Feather/High Angle: 36.7 +-0.5  
Cwt Angle: NA

**Non-HPI Items:**

Non-HPI Spinner:

Non-HPI Governor:

**Hartzell Approved Items:**

| Item Type     | Item Number | Description                      | Quantity | Qty Per | Comments |
|---------------|-------------|----------------------------------|----------|---------|----------|
| BLADE         | V8833       | BLADE UNIT                       | 3        | Prop    |          |
| BLADE         | V8833N      | BLADE UNIT                       | 3        | Prop    |          |
| SPINNER       | 837-8       | SPINNER ASSEMBLY                 | 1        | Prop    |          |
| MTG BOLT/STUD | A-1333-3    | BOLT, MOUNTING, 1/2-20, HEX HEAD | 4        | Prop    |          |

# HARTZELL

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### AERMACCHI (AERONAUTICA MACCHI)

**Model:** AM-3  
**Trade Name:**  
**Aircraft T.C./STC:** A19EU  
**Propeller Model:** HC-A3MVK-4  
**Propeller T.C.:** P6EA  
**Blade Model(s):** MV8833N  
**Prop Diameter:** 88 3/8" TO 86 3/8"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 15.0 +-0.2  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 61      **Rev.:** -      **DM Date:** 06/06/2006

**Modifier:**  
**Engine Model:** GTSIO-520-C  
**Power:** 340 HP @ 2400 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 36.7 +-0.5  
**Cwt Angle:** NA

**Non-HPI Governor:**

#### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>            | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|-------------------------------|-----------------|----------------|-----------------|
| BLADE            | MV8833N            | PCP:BLADE UNIT, ALUM [1,1,1]  | 3               | Prop           |                 |
| SPINNER          | 837-8              | SPINNER ASSEMBLY              | 1               | Prop           |                 |
| MTG BOLT/STUD    | A-1333-3           | BOLT,MOUNTING,1/2-20,HEX HEAD | 4               | Prop           |                 |

### AERMACCHI (AERONAUTICA MACCHI)

**Model:** AM-3C  
**Trade Name:**  
**Aircraft T.C./STC:** Unknown  
**Propeller Model:** HC-B3R20-4  
**Propeller T.C.:** P28EA  
**Blade Model(s):** R10160-1  
R10160N-1  
**Prop Diameter:** 100"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 14.5 +-0.1  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 62      **Rev.:** -      **DM Date:** 07/26/2004

**Modifier:**  
**Engine Model:** GSO-480-B1B6, -B1C3  
**Power:** 340 HP @ 2182 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 38.5 +-1.5  
**Cwt Angle:**

**Non-HPI Governor:**

#### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>         | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>       |
|------------------|--------------------|----------------------------|-----------------|----------------|-----------------------|
| BLADE            | R10160-1           | PCP:BLADE UNIT, ALUMINUM   | 3               | Prop           | REPLACED BY R10160N-1 |
| BLADE            | R10160N-1          | PCP:BLADE UNIT, ALUMINUM   | 3               | Prop           |                       |
| SPINNER          | 836-20             | SPINNER ASSEMBLY           | 1               | Prop           |                       |
| GOVERNOR         | F4-10              | IDS Item                   | 1               | A/C            |                       |
| MTG BOLT/STUD    | A-63B              | PCP: NUT, SHAFT, 20 SPLINE | 1               | Prop           |                       |
| MTG BOLT/STUD    | A-63-B             | NUT,SHAFT,20 SPLINE        | 1               | Prop           |                       |

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### AERMACCHI (AERONAUTICA MACCHI)

**Model:** AL 60-F5  
**Trade Name:**  
**Aircraft T.C./STC:** 7A12  
**Propeller Model:** HC-A3VK-4  
**Propeller T.C.:** P6EA  
**Blade Model(s):** V8433  
V8433N  
**Prop Diameter:** 84 5/8" TO 82 5/8"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.0 +-0.2  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 2079      **Rev.:** -      **DM Date:** 11/20/2003

**Modifier:**  
**Engine Model:** IO-720-A1A  
**Power:** 400 HP @ 2650 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:**  
**Feather/High Angle:** 33.9 +-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:**

#### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u> | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|--------------------|-----------------|----------------|-----------------|
| BLADE            | V8433              | BLADE              | 3               | Prop           |                 |
| BLADE            | V8433N             | BLADE              | 3               | Prop           |                 |
| SPINNER          | C-2513-2P          | SPINNER ASSEMBLY   | 1               | Prop           |                 |
| GOVERNOR         | F4-1               | IDS Item           | 1               | A/C            |                 |

### AERMACCHI (AERONAUTICA MACCHI)

**Model:** AL 60-F5  
**Trade Name:**  
**Aircraft T.C./STC:** 7A12  
**Propeller Model:** HC-A3MVK-4  
**Propeller T.C.:** P6EA  
**Blade Model(s):** MV8433N  
**Prop Diameter:** 84 5/8" TO 82 5/8"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.0 +-0.2  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 60      **Rev.:** -      **DM Date:** 05/11/1998

**Modifier:**  
**Engine Model:** IO-720-A1A  
**Power:** 400 HP @ 2650 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 33.9 +-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:**

#### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>           | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|------------------------------|-----------------|----------------|-----------------|
| BLADE            | MV8433N            | PCP:BLADE UNIT, ALUM [1,1,1] | 3               | Prop           |                 |
| SPINNER          | C-2513-2P          | SPINNER ASSEMBLY             | 1               | Prop           |                 |
| GOVERNOR         | F4-1               | IDS Item                     | 1               | A/C            |                 |

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**AERMACCHI S.P.A.**

IDS No.: 945      Rev.: 1      IC      Date: 07/07/2015

**Model:** S.205-22R  
**Trade Name:**  
**Aircraft T.C./STC:** A9EU  
**Propeller Model:** HC-C2YF-1BF  
**Propeller T.C.:** P-920  
**Blade Model(s):** F8459-4  
**Prop Diameter:** 80"

**Modifier:**  
**Engine Model:** 6A-350-C1  
**Power:** 220 HP @ 2800 RPM  
**Placard/Restr:**  
**Notes:** Formerly Siai Marchetti

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 11.0 +-0.2  
**Stud Protrusion** 1.450 +-0.030

**Startlock Angle:** NA  
**Feather/High Angle:** 30.5 +-1.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>       | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|--------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | C2F00317           | HC-C2YF-1BF/F8459-4/SM14 | 1               | A/C            |                          |
| BLADE            | F8459-4            | PCP:BLADE UNIT, ALUMINUM | 2               | Prop           |                          |
| SPINNER          | 835-23             | SPINNER ASSEMBLY         | 1               | Prop           |                          |
| SPINNER          | 835-23P            | SPINNER ASSEMBLY         | 1               | Prop           |                          |
| SPIN MTG KIT     | A-2476-14          | SPINNER - MTG KIT        | 1               | Prop           |                          |
| SPIN MTG KIT     | A-2476-3           | SPINNER - MTG KIT        | 1               | Prop           | Alternate                |
| MTG BOLT/STUD    | A-2429-4           | STUD, MOUNTING, 1/2-20   | 6               | Prop           |                          |
| OVERHAUL KIT     | HC-C2YF-1BF-OH     | O/H KIT                  | 1               | Prop           | For aftermarket use only |

**AERMACCHI S.P.A.**

IDS No.: 2554      Rev.: 1      IC      Date: 07/07/2015

**Model:** S.205-22R  
**Trade Name:**  
**Aircraft T.C./STC:** A9EU  
**Propeller Model:** HC-C2YK-1BF  
**Propeller T.C.:** P-920  
  
**Blade Model(s):** F8467-8R  
**Prop Diameter:** 76 TO 75

**Modifier:**  
**Engine Model:** O-540-E4A5  
**Power:** 260 HP @ 2700 RPM  
**Placard/Restr:** Avoid continuous operation between 2500 and 2600 RPM above 25" manifold pressure

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 15.5 +-0.2  
**Stud Protrusion**

**Notes:**  
**Startlock Angle:** NA  
**Feather/High Angle:** 32.0 +-0.5  
**Cwt Angle:** NA

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>       | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|--------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | C2K00089           | HC-C2YK-1BF/F8467-8R     | 1               | A/C            |                          |
| BLADE            | F8467-8R           | PCP:BLADE UNIT, ALUMINUM | 2               | Prop           |                          |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20   | 6               | Prop           |                          |
| OVERHAUL KIT     | HC-C2YK-1BF-OH     | O/H KIT                  | 1               | Prop           | For aftermarket use only |

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**AERMACCHI S.P.A.**

IDS No.: 2555 Rev.: 1 IC Date: 07/07/2015

**Model:** S.205-22R  
**Trade Name:**  
**Aircraft T.C./STC:** A9EU  
**Propeller Model:** HC-C2YK-1BF  
**Propeller T.C.:** P-920  
**Blade Model(s):** F8477-8R  
**Prop Diameter:** 76

**Modifier:**  
**Engine Model:** O-540-E4A5  
**Power:** 260 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 15.5 +/-0.2  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 32.0 +/-0.5  
**Cwt Angle:** NA

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type     | Item Number    | Description                  | Quantity | Qty Per | Comments                 |
|---------------|----------------|------------------------------|----------|---------|--------------------------|
| PROPELLER     | C2K00181       | HC-C2YK-1BF/F8477-8R         | 1        | A/C     |                          |
| BLADE         | F8477-8R       | PCP:BLADE UNIT, ALUM [1,1,1] | 2        | Prop    |                          |
| MTG BOLT/STUD | A-2067         | STUD, MOUNTING, 1/2-20       | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-C2YK-1BF-OH | O/H KIT                      | 1        | Prop    | For aftermarket use only |

**AERO COMMANDER**

IDS No.: 3275 Rev.: 3 IC Date: 02/11/2021

**Model:** 112, 112A, 112B  
**Trade Name:** 390 Super Commander  
**Aircraft T.C./STC:** SA00302BO  
**Propeller Model:** HC-E3YR-1RF  
**Propeller T.C.:** P33EA

**Modifier:** AERODYME CORPORATION  
**Engine Model:** IO-390-A3A6  
**Power:** 210 HP @ 2700 RPM  
**Placard/Restr:** Avoid continuous operation below 15" manifold pressure between 2050 and 2450 RPM.

**Blade Model(s):** F7392\*1  
**Prop Diameter:** 75" TO 73"

**Notes:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** N/A  
**Low Pitch Angle:** 11.2+/- 0.2  
**Stud Protrusion**

**Startlock Angle:** N/A  
**Feather/High Angle:** 30.0 +/- 1.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type     | Item Number    | Description                  | Quantity | Qty Per | Comments                 |
|---------------|----------------|------------------------------|----------|---------|--------------------------|
| PROPELLER     | E3R00022       | HC-E3YR-1RF/F7392/SM7        | 1        | A/C     |                          |
| PROPELLER     | E3R00022KD     | HC-E3YR-1RF/F7392/SM7        | 1        | A/C     |                          |
| BLADE         | F7392*1        | PCP:BLADE UNIT, ALUM [3,1,1] | 3        | Prop    |                          |
| SPINNER       | C-3535-1       | SPINNER ASSEMBLY             | 1        | Prop    |                          |
| SPINNER       | C-3535-1P      | SPINNER ASSEMBLY             | 1        | Prop    |                          |
| GOVERNOR      | S-1-95         | GOVERNOR ASSEMBLY, S-1-95    | 1        | A/C     |                          |
| SPIN MTG KIT  | A-2476-7       | SPINNER - MTG KIT            | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2067         | STUD, MOUNTING, 1/2-20       | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-E3YR-1RF-OH | O/H KIT                      | 1        | Prop    | For aftermarket use only |

# HARTZELL

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### AERO COMMANDER

**Model:** 690, 690A, 690B, 690C  
**Trade Name:** TURBO COMMANDER  
**Aircraft T.C./STC:** STC-SA1464NM  
**Propeller Model:** HC-B3TN-5NL  
**Propeller T.C.:** P15EA  
**Blade Model(s):** LT10673-2Q  
 LT10673B-2Q  
 LT10673N-2Q  
 LT10673NB-2Q

**Prop Diameter:** 104"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** -8.0 +-0.5  
**Low Pitch Angle:** NA  
**Stud Protrusion**

**IDS No.:** 2789      **Rev.:** 3      **IC Date:** 01/27/2020

**Modifier:** AERO AIR  
**Engine Model:** TPE331-5-251K, -252K, -254K  
**Power:** 715 HP @ 1591 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** 2.5 +-0.2  
**Feather/High Angle:** 90.0 +-0.5  
**Cwt Angle:** Positive

#### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:**

#### Hartzell Approved Items:

| <u>Item Type</u>               | <u>Item Number</u> | <u>Description</u>                | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|--------------------------------|--------------------|-----------------------------------|-----------------|----------------|--------------------------|
| PROPELLER                      | B3N11320           | HC-B3TN-5NL/LT10673N-2Q           | 2               | A/C            |                          |
| BLADE                          | LT10673-2Q         | BLADE                             | 3               | Prop           |                          |
| BLADE                          | LT10673B-2Q        | BLADE, 4E1601-5 BOOT              | 3               | Prop           |                          |
| BLADE                          | LT10673N-2Q        | PCP:BLADE UNIT, ALUMINUM          | 3               | Prop           |                          |
| BLADE                          | LT10673NB-2Q       | PCP:BLADE UNIT, ALUMINUM          | 3               | Prop           |                          |
| SPINNER                        | 836-57             | SPINNER ASSEMBLY                  | 1               | Prop           |                          |
| SPINNER                        | 836-57P            | SPINNER ASSEMBLY                  | 1               | Prop           |                          |
| SPINNER                        | D-7330             | SPINNER ASSEMBLY                  | 1               | Prop           |                          |
| SPINNER                        | D-7330P            | SPINNER ASSEMBLY                  | 1               | Prop           |                          |
| COUNTERWEIGHT SLUG A-2038-4    |                    | SCREW, 1/4-28, CAP                | 2               | Blade          |                          |
| COUNTERWEIGHT SLUG A-3039      |                    | SLUG, COUNTERWEIGHT               | 1               | Blade          |                          |
| COUNTERWEIGHT SLUG B-3386-14H  |                    | BOLT, 3/8-24, HEX HEAD            | 2               | Blade          |                          |
| COUNTERWEIGHT SLUG B-3663      |                    | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          |                          |
| COUNTERWEIGHT SLUG B-3834-0632 |                    | WASHER                            | 2               | Blade          |                          |
| DE-ICER                        | 4H1601-5           | DE-ICE BOOT                       | 1               | Blade          | Supersedes 7931-4E1601-5 |
| DE-ICE KIT PR                  | 7931-77-025-1      | DE-ICE KIT (ONE PROP)             | 1               | Prop           |                          |
| MTG BOLT/STUD                  | B-3339             | BOLT, MOUNTING, 9/16-18, 12 POINT | 8               | Prop           |                          |
| OVERHAUL KIT                   | HC-B3TN-5NL-OH     | O/H KIT                           | 1               | Prop           | For aftermarket use only |



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### AERO COMMANDER

**Model:** 111  
**Trade Name:**  
**Aircraft T.C./STC:** A11SO  
**Propeller Model:** HC-E2YR-1B(F)  
**Propeller T.C.:** P9EA  
**Blade Model(s):** F7666  
**Prop Diameter:** 76"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.0 +-0.2  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 2      **Rev.:** -      **DM Date:** 06/06/2006

**Modifier:**  
**Engine Model:** O-360-A1G6  
**Power:** 180 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 29.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:** EDO AIRE

#### Hartzell Approved Items:

| Item Type     | Item Number | Description            | Quantity | Qty Per | Comments |
|---------------|-------------|------------------------|----------|---------|----------|
| BLADE         | F7666       | IDS Item               | 2        | Prop    |          |
| SPINNER       | C-3533      | SPINNER ASSEMBLY       | 1        | Prop    |          |
| SPINNER       | C-3533-P    | SPINNER ASSEMBLY       | 1        | Prop    |          |
| SPIN MTG KIT  | A-2476-4    | SPINNER - MTG KIT      | 1        | Prop    |          |
| MTG BOLT/STUD | A-2067      | STUD, MOUNTING, 1/2-20 | 6        | Prop    |          |

### AERO COMMANDER

**Model:** 112  
**Trade Name:** COMMANDER  
**Aircraft T.C./STC:** A12SO  
**Propeller Model:** HC-E2YR-1B(F)  
**Propeller T.C.:** P9EA  
  
**Blade Model(s):** F7666A  
**Prop Diameter:** 76" TO 74"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.0 +-0.2  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 3      **Rev.:** 1      **IC Date:** 07/07/2015

**Modifier:**  
**Engine Model:** IO-360-C1D6  
**Power:** 200 HP @ 2700 RPM  
**Placard/Restr:** Do not exceed 24 inches manifold pressure below 2400 RPM.  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 29.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:** EDO AIRE

#### Hartzell Approved Items:

| Item Type     | Item Number    | Description                  | Quantity | Qty Per | Comments                 |
|---------------|----------------|------------------------------|----------|---------|--------------------------|
| PROPELLER     | E2R00020       | HC-E2YR-1BF/F7666A/SM4       | 1        | A/C     |                          |
| BLADE         | F7666A         | PCP:BLADE UNIT, ALUM [1,1,1] | 2        | Prop    |                          |
| SPINNER       | C-3533         | SPINNER ASSEMBLY             | 1        | Prop    |                          |
| SPINNER       | C-3533-P       | SPINNER ASSEMBLY             | 1        | Prop    |                          |
| SPIN MTG KIT  | A-2476-4       | SPINNER - MTG KIT            | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2067         | STUD, MOUNTING, 1/2-20       | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-E2YR-1BF-OH | O/H KIT                      | 1        | Prop    | For aftermarket use only |

# HARTZELL

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### AERO COMMANDER

**Model:** 112B  
**Trade Name:** COMMANDER  
**Aircraft T.C./STC:** A12SO  
**Propeller Model:** HC-E2YR-1BF  
**Propeller T.C.:** P9EA  
**Blade Model(s):** F8467-7R  
**Prop Diameter:** 77" TO 76.5"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 11.6 +/-0.1  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 4      **Rev.:** 1      **IC Date:** 07/07/2015

**Modifier:**  
**Engine Model:** IO-360-C1D6  
**Power:** 200 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 30.5 +/-1.5  
**Cwt Angle:**

**Non-HPI Governor:** EDO AIRE

#### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>       | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|--------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | E2R00041           | HC-E2YR-1BF/F8467-7R/SM4 | 1               | A/C            |                          |
| BLADE            | F8467-7R           | PCP:BLADE UNIT, ALUMINUM | 2               | Prop           |                          |
| SPINNER          | C-3533             | SPINNER ASSEMBLY         | 1               | Prop           |                          |
| SPINNER          | C-3533-P           | SPINNER ASSEMBLY         | 1               | Prop           |                          |
| SPIN MTG KIT     | A-2476-4           | SPINNER - MTG KIT        | 1               | Prop           |                          |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20   | 6               | Prop           |                          |
| OVERHAUL KIT     | HC-E2YR-1BF-OH     | O/H KIT                  | 1               | Prop           | For aftermarket use only |

# HARTZELL

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### AERO COMMANDER

**Model:** 112, 112B  
**Trade Name:** COMMANDER  
**Aircraft T.C./STC:** STC-SA00499SE  
**Propeller Model:** HC-E3YR-1RF  
**Propeller T.C.:** P33EA  
**Blade Model(s):** F7392  
 F7392\*1  
**Prop Diameter:** 75" TO 73"

**IDS No.:** 1209      **Rev.:** 2      **IC Date:** 07/16/2015

**Modifier:** HARTZELL PROPELLER  
**Engine Model:** IO-360-C1D6  
**Power:** 200 HP @ 2700 RPM  
**Placard/Restr:**

**Notes:** Engine may be turbonormalized using  
 RCM Normalizing Inc. STC No. SA  
 5202NM

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 11.2+-0.2  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 30.0 +-1.0  
**Cwt Angle:**

#### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:**

#### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>           | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|------------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | E3R00017           | HC-E3YR-1RF/F7392/SM7        | 1               | A/C            |                          |
| PROPELLER        | E3R00017KD         | HC-E3YR-1RF/F7392/SM7        | 1               | A/C            |                          |
| PROPELLER        | E3R00017SKDTP      | E3R00017/SM7/C-3535-1P       | 1               | A/C            |                          |
| PROPELLER        | E3R00017STP        | E3R00017/SM7/C-3535-1P       | 1               | A/C            |                          |
| PROPELLER        | E3R00021           | HC-E3YR-1RF/F7392[*1]/SM7    | 1               | A/C            |                          |
| PROPELLER        | E3R00021KD         | HC-E3YR-1RF/F7392[*1]/SM7    | 1               | A/C            |                          |
| PROPELLER        | E3R00021SKDTP      | E3R00021/SM7/C-3535-1P       | 1               | A/C            |                          |
| PROPELLER        | E3R00021STP        | E3R00021/SM7/C-3535-1P       | 1               | A/C            |                          |
| BLADE            | F7392              | PCP:BLADE UNIT, ALUM [1,1,1] | 3               | Prop           |                          |
| BLADE            | F7392*1            | PCP:BLADE UNIT, ALUM [3,1,1] | 3               | Prop           |                          |
| SPINNER          | C-3535-1           | SPINNER ASSEMBLY             | 1               | Prop           |                          |
| SPINNER          | C-3535-1P          | SPINNER ASSEMBLY             | 1               | Prop           |                          |
| SPIN MTG KIT     | A-2476-7           | SPINNER - MTG KIT            | 1               | Prop           |                          |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20       | 6               | Prop           |                          |
| OVERHAUL KIT     | HC-E3YR-1RF-OH     | O/H KIT                      | 1               | Prop           | For aftermarket use only |

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### AERO COMMANDER

**Model:** 112TC, 112TCA  
**Trade Name:** COMMANDER  
**Aircraft T.C./STC:** STC-SA00499SE  
**Propeller Model:** HC-E3YR-1RF  
**Propeller T.C.:** P33EA  
**Blade Model(s):** F7392  
 F7392\*1  
**Prop Diameter:** 75" TO 73"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 15.4 +-0.2  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 1869      **Rev.:** 2      **IC Date:** 07/16/2015

**Modifier:** HARTZELL PROPELLER  
**Engine Model:** TO-360-C1A6D  
**Power:** 210 HP @ 2575 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 30.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

#### Hartzell Approved Items:

| Item Type     | Item Number    | Description                  | Quantity | Qty Per | Comments                 |
|---------------|----------------|------------------------------|----------|---------|--------------------------|
| PROPELLER     | E3R00016       | HC-E3YR-1RF/F7392/SM7        | 1        | A/C     |                          |
| PROPELLER     | E3R00016KD     | HC-E3YR-1RF/F7392/SM7        | 1        | A/C     |                          |
| PROPELLER     | E3R00016SKDTP  | E3R00016/SM7/C-3535-1P       | 1        | A/C     |                          |
| PROPELLER     | E3R00016STP    | E3R00016/SM7/C-3535-1P       | 1        | A/C     |                          |
| PROPELLER     | E3R00020       | HC-E3YR-1RF/F7392[*1]/SM7    | 1        | A/C     |                          |
| PROPELLER     | E3R00020KD     | HC-E3YR-1RF/F7392[*1]/SM7    | 1        | A/C     |                          |
| PROPELLER     | E3R00020SKDTP  | E3R00020/SM7/C-3535-1P       | 1        | A/C     |                          |
| PROPELLER     | E3R00020STP    | E3R00020/SM7/C-3535-1P       | 1        | A/C     |                          |
| BLADE         | F7392          | PCP:BLADE UNIT, ALUM [1,1,1] | 3        | Prop    |                          |
| BLADE         | F7392*1        | PCP:BLADE UNIT, ALUM [3,1,1] | 3        | Prop    |                          |
| SPINNER       | C-3535-1       | SPINNER ASSEMBLY             | 1        | Prop    |                          |
| SPINNER       | C-3535-1P      | SPINNER ASSEMBLY             | 1        | Prop    |                          |
| SPIN MTG KIT  | A-2476-7       | SPINNER - MTG KIT            | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2067         | STUD, MOUNTING, 1/2-20       | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-E3YR-1RF-OH | O/H KIT                      | 1        | Prop    | For aftermarket use only |

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### AERO COMMANDER

**Model:** 112TC, 112TCA  
**Trade Name:** COMMANDER  
**Aircraft T.C./STC:** A12SO  
**Propeller Model:** HC-E2YR-1BF  
**Propeller T.C.:** P9EA

**Blade Model(s):** F8467-7R  
**Prop Diameter:** 77" TO 76.5"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 15.0 +-0.1  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:** AERO COMMANDER

**Hartzell Approved Items:**

| Item Type     | Item Number    | Description              | Quantity | Qty Per | Comments                 |
|---------------|----------------|--------------------------|----------|---------|--------------------------|
| PROPELLER     | E2R00042       | HC-E2YR-1BF/F8467-7R/SM4 | 1        | A/C     |                          |
| BLADE         | F8467-7R       | PCP:BLADE UNIT, ALUMINUM | 2        | Prop    |                          |
| SPIN MTG KIT  | A-2476-4       | SPINNER - MTG KIT        | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2067         | STUD, MOUNTING, 1/2-20   | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-E2YR-1BF-OH | O/H KIT                  | 1        | Prop    | For aftermarket use only |

**IDS No.:** 5      **Rev.:** 1      **IC Date:** 07/07/2015

**Modifier:**  
**Engine Model:** TO-360-C1A6D  
**Power:** 210 HP @ 2575 RPM

**Placard/Restr:** 1) Not more than 34" of manifold pressure at propeller speeds less than 2350 RPM. 2) Not less than 20" of manifold pressure at propeller speeds between 2250 and 2450 RPM

**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 30.5 +-1.5  
**Cwt Angle:**

**Non-HPI Governor:** EDO AIRE

### AERO COMMANDER

**Model:** 112  
**Trade Name:** COMMANDER  
**Aircraft T.C./STC:** STC-SA243NW  
**Propeller Model:** HC-C3YR-1RF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** F8468A-6R  
**Prop Diameter:** 80"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.0 +-0.1  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number | Description                  | Quantity | Qty Per | Comments |
|---------------|-------------|------------------------------|----------|---------|----------|
| BLADE         | F8468A-6R   | PCP:BLADE UNIT, ALUM [1,1,1] | 3        | Prop    |          |
| SPINNER       | A-2295-1    | SPINNER ASSEMBLY             | 1        | Prop    |          |
| MTG BOLT/STUD | A-2067      | STUD, MOUNTING, 1/2-20       | 6        | Prop    |          |

**IDS No.:** 6      **Rev.:** -      **DM Date:** 12/06/1999

**Modifier:** MACHEN INC.  
**Engine Model:** IO-540-G1, -P1, -K1, -S1  
**Power:** 290 HP @ 2575 RPM  
**Placard/Restr:**

**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 38.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

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### AERO COMMANDER

**Model:** 114  
**Trade Name:** COMMANDER  
**Aircraft T.C./STC:** A12SO  
**Propeller Model:** HC-C2YR-1BF  
**Propeller T.C.:** P-920  
**Blade Model(s):** F8467-7R  
**Prop Diameter:** 77" NO CUT OFF

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 14.2 +-0.1  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 7      **Rev.:** 1      **IC Date:** 07/07/2015

**Modifier:**  
**Engine Model:** IO-540-T4A5D, -T4B5D  
**Power:** 260 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 31.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:** EDO AIRE

#### Hartzell Approved Items:

| Item Type     | Item Number    | Description              | Quantity | Qty Per | Comments                 |
|---------------|----------------|--------------------------|----------|---------|--------------------------|
| PROPELLER     | C2R00030       | HC-C2YR-1BF/F8467-7R/SM4 | 1        | A/C     |                          |
| BLADE         | F8467-7R       | PCP:BLADE UNIT, ALUMINUM | 2        | Prop    |                          |
| SPINNER       | C-3533         | SPINNER ASSEMBLY         | 1        | Prop    |                          |
| SPIN MTG KIT  | A-2476-4       | SPINNER - MTG KIT        | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2067         | STUD, MOUNTING, 1/2-20   | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-C2YR-1BF-OH | O/H KIT                  | 1        | Prop    | For aftermarket use only |

### AERO COMMANDER

**Model:** 500  
**Trade Name:** AERO COMMANDER  
**Aircraft T.C./STC:** 6A1  
**Propeller Model:** HC-A2MVK-2  
**Propeller T.C.:** P24EA  
**Blade Model(s):** MV8433N-4\*2  
**Prop Diameter:** 80.2" TO 80"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 14.0 +-0.2  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 8      **Rev.:** 2      **IC Date:** 07/06/2015

**Modifier:**  
**Engine Model:** O-540-A2B  
**Power:** 250 HP @ 2575 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 83.0 +-1.0  
**Cwt Angle:** Positive

**Non-HPI Governor:** HAMILTON, WOODWARD

#### Hartzell Approved Items:

| Item Type     | Item Number   | Description                   | Quantity | Qty Per | Comments                 |
|---------------|---------------|-------------------------------|----------|---------|--------------------------|
| PROPELLER     | A2K10036      | HC-A2MVK-2/MV8433N-4[*2]      | 2        | A/C     |                          |
| BLADE         | MV8433N-4*2   | PCP:BLADE UNIT, ALUM [1,3,1]  | 2        | Prop    |                          |
| SPINNER       | 835-30        | SPINNER ASSEMBLY              | 1        | Prop    |                          |
| SPINNER       | 835-6         | IDS Item                      | 1        | Prop    | TC, superceded by 835-30 |
| MTG BOLT/STUD | A-1328        | BOLT,MOUNTING,1/2-20,12 POINT | 4        | Prop    |                          |
| MTG BOLT/STUD | A-1333        | BOLT,MOUNTING,1/2-20,HEX HEAD | 2        | Prop    |                          |
| MTG BOLT/STUD | A-1333-3      | BOLT,MOUNTING,1/2-20,HEX HEAD | 2        | Prop    |                          |
| OVERHAUL KIT  | HC-A2MVK-2-OH | O/H KIT                       | 1        | Prop    | For aftermarket use only |

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### AERO COMMANDER

**Model:** 500  
**Trade Name:** AERO COMMANDER  
**Aircraft T.C./STC:** 6A1  
**Propeller Model:** HC-A2XK-2, HC-82XK-2  
**Propeller T.C.:** P24EA  
**Blade Model(s):** 8433-4  
**Prop Diameter:** 80.2" TO 80"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 14.0 +-0.2  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 2051      **Rev.:** -      **DM Date:** 01/12/2004

**Modifier:**  
**Engine Model:** O-540-A2B  
**Power:** 250 HP @ 2575 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 83.0 +-1.0  
**Cwt Angle:** Positive

**Non-HPI Governor:** HAMILTON, WOODWARD

#### Hartzell Approved Items:

| Item Type     | Item Number | Description                   | Quantity | Qty Per | Comments                 |
|---------------|-------------|-------------------------------|----------|---------|--------------------------|
| BLADE         | 8433-4      | BLADE                         | 2        | Prop    |                          |
| SPINNER       | 835-30      | SPINNER ASSEMBLY              | 1        | Prop    |                          |
| SPINNER       | 835-6       | IDS Item                      | 1        | Prop    | TC, superseded by 835-30 |
| MTG BOLT/STUD | A-1328      | BOLT,MOUNTING,1/2-20,12 POINT | 4        | Prop    |                          |
| MTG BOLT/STUD | A-1333      | BOLT,MOUNTING,1/2-20,HEX HEAD | 2        | Prop    |                          |
| MTG BOLT/STUD | A-1333-3    | BOLT,MOUNTING,1/2-20,HEX HEAD | 2        | Prop    |                          |

### AERO COMMANDER

**Model:** 500  
**Trade Name:** AERO COMMANDER  
**Aircraft T.C./STC:** 6A1  
**Propeller Model:** HC-A2VK-2, HC-82VK-2  
**Propeller T.C.:** P24EA  
**Blade Model(s):** V8433-4  
V8433N-4  
**Prop Diameter:** 80.2" TO 80"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 14.0 +-0.2  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 2052      **Rev.:** -      **DM Date:** 01/12/2004

**Modifier:**  
**Engine Model:** O-540-A2B  
**Power:** 250 HP @ 2575 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 83.0 +-1.0  
**Cwt Angle:** Positive

**Non-HPI Governor:** HAMILTON, WOODWARD

#### Hartzell Approved Items:

| Item Type     | Item Number | Description                   | Quantity | Qty Per | Comments                 |
|---------------|-------------|-------------------------------|----------|---------|--------------------------|
| BLADE         | V8433-4     | BLADE                         | 2        | Prop    |                          |
| BLADE         | V8433N-4    | BLADE                         | 2        | Prop    |                          |
| SPINNER       | 835-30      | SPINNER ASSEMBLY              | 1        | Prop    |                          |
| SPINNER       | 835-6       | IDS Item                      | 1        | Prop    | TC, superseded by 835-30 |
| MTG BOLT/STUD | A-1328      | BOLT,MOUNTING,1/2-20,12 POINT | 4        | Prop    |                          |
| MTG BOLT/STUD | A-1333      | BOLT,MOUNTING,1/2-20,HEX HEAD | 2        | Prop    |                          |
| MTG BOLT/STUD | A-1333-3    | BOLT,MOUNTING,1/2-20,HEX HEAD | 2        | Prop    |                          |

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### AERO COMMANDER

**Model:** 500A  
**Trade Name:** AERO COMMANDER  
**Aircraft T.C./STC:** 6A1  
**Propeller Model:** HC-82XF-2, HC-A2XF-2  
**Propeller T.C.:** P24EA  
**Blade Model(s):** 8433-4  
**Prop Diameter:** 80.3" TO 78"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.5 +/-0.2  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

#### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u> | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|--------------------|-----------------|----------------|-----------------|
| BLADE            | 8433-4             | BLADE              | 2               | Prop           |                 |
| SPINNER          | C-2509-1           | BULKHEAD ASSEMBLY  | 1               | Prop           | bh w/alcoh      |
| SPINNER          | C-2530             | SPINNER ASSEMBLY   | 1               | Prop           |                 |

**IDS No.:** 2053      **Rev.:** -      **DM Date:** 11/20/2003

**Modifier:**  
**Engine Model:** IO-470-M  
**Power:** 260 HP @ 2625 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 81.0 +/-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:** WOODWARD

### AERO COMMANDER

**Model:** 500A  
**Trade Name:** AERO COMMANDER  
**Aircraft T.C./STC:** 6A1  
**Propeller Model:** HC-82VF-2, HC-A2VF-2  
**Propeller T.C.:** P24EA  
**Blade Model(s):** V8433-4  
V8433N-4  
**Prop Diameter:** 80.3" TO 78"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.5 +/-0.2  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

#### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u> | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|--------------------|-----------------|----------------|-----------------|
| BLADE            | V8433-4            | BLADE              | 2               | Prop           |                 |
| BLADE            | V8433N-4           | BLADE              | 2               | Prop           |                 |
| SPINNER          | C-2509-1           | BULKHEAD ASSEMBLY  | 1               | Prop           | bh w/alcoh      |
| SPINNER          | C-2530             | SPINNER ASSEMBLY   | 1               | Prop           |                 |

**IDS No.:** 2054      **Rev.:** -      **DM Date:** 11/20/2003

**Modifier:**  
**Engine Model:** IO-470-M  
**Power:** 260 HP @ 2625 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 81.0 +/-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:** WOODWARD



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### AERO COMMANDER

**Model:** 500A  
**Trade Name:** AERO COMMANDER  
**Aircraft T.C./STC:** 6A1  
**Propeller Model:** HC-A2MVF-2  
**Propeller T.C.:** P24EA  
**Blade Model(s):** MV8433N-4\*2  
**Prop Diameter:** 80.3" TO 78"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.5 +-0.2  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 9      **Rev.:** 1      **D**      **Date:** 01/07/2011

**Modifier:**  
**Engine Model:** IO-470-M  
**Power:** 260 HP @ 2625 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 81.0 +-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:** WOODWARD

#### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>           | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|------------------------------|-----------------|----------------|-----------------|
| BLADE            | MV8433N-4*2        | PCP:BLADE UNIT, ALUM [1,3,1] | 2               | Prop           |                 |
| SPINNER          | C-2509-1           | BULKHEAD ASSEMBLY            | 1               | Prop           | bh w/alcoh      |
| SPINNER          | C-2530             | SPINNER ASSEMBLY             | 1               | Prop           |                 |

### AERO COMMANDER

**Model:** 500B, 500S, 500U  
**Trade Name:** AERO COMMANDER  
**Aircraft T.C./STC:** 6A1  
**Propeller Model:** HC-83XK-2, HC-A3XK-2, HC-83XK-2A, HC-A3XK-2A  
**Propeller T.C.:** P6EA  
**Blade Model(s):** 8433-4  
**Prop Diameter:** 80.6" TO 80"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.75 +-0.25  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 2055      **Rev.:** -      **DM**      **Date:** 11/20/2003

**Modifier:**  
**Engine Model:** IO-540-B1(A,C)5, -E1(A,B)5  
**Power:** 290 HP @ 2575 RPM  
**Placard/Restr:**

**Notes:** (82.5 OK for A/C S/N 893-1014)

**Startlock Angle:** NA  
**Feather/High Angle:** 85.5 +-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:** WOODWARD

#### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>            | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|-------------------------------|-----------------|----------------|-----------------|
| BLADE            | 8433-4             | BLADE                         | 3               | Prop           |                 |
| SPINNER          | C-2513             | SPINNER ASSEMBLY              | 1               | Prop           |                 |
| MTG BOLT/STUD    | A-1328             | BOLT,MOUNTING,1/2-20,12 POINT | 3               | Prop           |                 |
| MTG BOLT/STUD    | A-1333-3           | BOLT,MOUNTING,1/2-20,HEX HEAD | 3               | Prop           |                 |

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### AERO COMMANDER

**Model:** 500B, 500S, 500U  
**Trade Name:** AERO COMMANDER  
**Aircraft T.C./STC:** 6A1  
**Propeller Model:** HC-83VK-2, HC-A3VK-2, HC-83VK-2A, HC-A3VK-2A  
**Propeller T.C.:** P6EA  
**Blade Model(s):** V8433-4  
 V8433N-4  
**Prop Diameter:** 80.6" TO 80"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.75 +-0.25  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

#### Hartzell Approved Items:

| Item Type     | Item Number | Description                   | Quantity | Qty Per | Comments |
|---------------|-------------|-------------------------------|----------|---------|----------|
| BLADE         | V8433-4     | BLADE                         | 3        | Prop    |          |
| BLADE         | V8433N-4    | BLADE                         | 3        | Prop    |          |
| SPINNER       | C-2513      | SPINNER ASSEMBLY              | 1        | Prop    |          |
| MTG BOLT/STUD | A-1328      | BOLT,MOUNTING,1/2-20,12 POINT | 3        | Prop    |          |
| MTG BOLT/STUD | A-1333-3    | BOLT,MOUNTING,1/2-20,HEX HEAD | 3        | Prop    |          |

**IDS No.:** 2056      **Rev.:** -      **DM Date:** 11/20/2003

**Modifier:**  
**Engine Model:** IO-540-B1(A,C)5, -E1(A,B)5  
**Power:** 290 HP @ 2575 RPM  
**Placard/Restr:**

**Notes:** (82.5 OK for A/C S/N 893-1014)

**Startlock Angle:** NA  
**Feather/High Angle:** 85.5 +-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:** WOODWARD

### AERO COMMANDER

**Model:** 500B, 500S, 500U  
**Trade Name:** AERO COMMANDER  
**Aircraft T.C./STC:** 6A1  
**Propeller Model:** HC-A3MVK-2A  
**Propeller T.C.:** P6EA  
**Blade Model(s):** MV8433N-4\*2  
**Prop Diameter:** 80.6" TO 80"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.75 +-0.25  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

#### Hartzell Approved Items:

| Item Type     | Item Number    | Description                   | Quantity | Qty Per | Comments                 |
|---------------|----------------|-------------------------------|----------|---------|--------------------------|
| PROPELLER     | A3K10090       | HC-A3MVK-2A/MV8433N-4[*2]     | 0        |         |                          |
| BLADE         | MV8433N-4*2    | PCP:BLADE UNIT, ALUM [1,3,1]  | 3        | Prop    |                          |
| SPINNER       | C-2513         | SPINNER ASSEMBLY              | 1        | Prop    |                          |
| SPINNER       | C-2513-P       | SPINNER ASSEMBLY              | 1        | Prop    |                          |
| MTG BOLT/STUD | A-1328         | BOLT,MOUNTING,1/2-20,12 POINT | 3        | Prop    |                          |
| MTG BOLT/STUD | A-1333-3       | BOLT,MOUNTING,1/2-20,HEX HEAD | 3        | Prop    |                          |
| OVERHAUL KIT  | HC-A3MVK-2A-OH | O/H KIT                       | 1        | Prop    | For aftermarket use only |

**IDS No.:** 10      **Rev.:** 2      **IC Date:** 07/07/2015

**Modifier:**  
**Engine Model:** IO-540-B1(A,C)5, -E1(A,B)5  
**Power:** 290 HP @ 2575 RPM  
**Placard/Restr:**

**Notes:** (82.5 OK for A/C S/N 893-1014)

**Startlock Angle:** NA  
**Feather/High Angle:** 85.5 +-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:** WOODWARD

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### AERO COMMANDER

**Model:** 500B, 500S, 500U  
**Trade Name:** SHRIKE COMMANDER  
**Aircraft T.C./STC:** 6A1  
**Propeller Model:** HC-C3YR-2(U)(F)  
**Propeller T.C.:** P25EA  
**Blade Model(s):** FC8468-6R\*2  
 FC8468B-6R

**Prop Diameter:** 80"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.75 +-0.25  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 12      **Rev.:** 1      **IC Date:** 07/15/2015

**Modifier:**

**Engine Model:** IO-540-E1(A,B)5 (-B1(A,C)5; 500B ONLY)

**Power:** 290 HP @ 2575 RPM

**Placard/Restr:**

**Notes:** (82.5 feather angle OK for A/C S/N 893-1014); Blades must have tip stripes on both sides

**Startlock Angle:** 18.25 +-1.5

**Feather/High Angle:** 85.5 +-1.0

**Cwt Angle:**

#### Hartzell Approved Items:

| Item Type     | Item Number    | Description                    | Quantity | Qty Per | Comments                 |
|---------------|----------------|--------------------------------|----------|---------|--------------------------|
| PROPELLER     | C3R00212       | HC-C3YR-2UF/FC8468-6R[*2]      | 2        | A/C     |                          |
| PROPELLER     | C3R00212KD     | HC-C3YR-2UF/FC8468-6R[*2]      | 2        | A/C     |                          |
| PROPELLER     | C3R00214       | HC-C3YR-2UF/FC8468B-6R         | 2        | A/C     |                          |
| PROPELLER     | C3R00214KD     | HC-C3YR-2UF/FC8468B-6R         | 2        | A/C     |                          |
| BLADE         | FC8468-6R*2    | PCP:BLADE UNIT, ALUM B-3202H-2 | 3        | Prop    |                          |
| BLADE         | FC8468B-6R     | PCP:BLADE UNIT,4H1188-4 BOOT   | 3        | Prop    |                          |
| SPINNER       | C-3258         | SPINNER ASSEMBLY               | 1        | Prop    |                          |
| COUNTERWEIGHT | B-3202H-2      | PCP:COUNTERWEIGHT              | 1        | Blade   | Blade Component          |
| DE-ICER       | 4H1188-4       | DE-ICE BOOT                    | 1        | Blade   | Supersedes 7931-4E1188-4 |
| MTG BOLT/STUD | A-2067         | STUD, MOUNTING, 1/2-20         | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-C3YR-2UF-OH | O/H KIT                        | 1        | Prop    | For aftermarket use only |

### AERO COMMANDER

**Model:** 500  
**Trade Name:** AERO COMMANDER  
**Aircraft T.C./STC:** STC-SA340SO  
**Propeller Model:** EHC-83XF-2B, EHC-A3XF-2B  
**Propeller T.C.:** P6EA  
**Blade Model(s):** 7636D  
**Prop Diameter:** 76.6"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 11.8 +-0.1  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 2058      **Rev.:** -      **DM Date:** 11/20/2003

**Modifier:** COLEMILL ENTERPRISE

**Engine Model:** IO-520-D, -E

**Power:** 300 HP @ 2850 RPM

**Placard/Restr:**

**Notes:**

**Startlock Angle:** 17.3 +-1.5

**Feather/High Angle:** 85.0 +-1.0

**Cwt Angle:**

#### Hartzell Approved Items:

| Item Type | Item Number | Description      | Quantity | Qty Per | Comments |
|-----------|-------------|------------------|----------|---------|----------|
| BLADE     | 7636D       | BLADE            | 3        | Prop    |          |
| SPINNER   | 836-25P     | SPINNER ASSEMBLY | 1        | Prop    |          |

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### AERO COMMANDER

**Model:** 500  
**Trade Name:** AERO COMMANDER  
**Aircraft T.C./STC:** STC-SA340SO  
**Propeller Model:** EHC-83VF-2B, EHC-A3VF-2B  
**Propeller T.C.:** P6EA  
**Blade Model(s):**  
**Prop Diameter:** 76.6"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 11.8 +-0.1  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

#### Hartzell Approved Items:

| Item Type | Item Number | Description      | Quantity | Qty Per | Comments |
|-----------|-------------|------------------|----------|---------|----------|
| SPINNER   | 836-25P     | SPINNER ASSEMBLY | 1        | Prop    |          |

**IDS No.:** 2059      **Rev.:** -      **DM Date:** 11/20/2003

**Modifier:** COLEMILL ENTERPRISE  
**Engine Model:** IO-520-D, -E  
**Power:** 300 HP @ 2850 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** 17.3 +-1.5  
**Feather/High Angle:** 85.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

### AERO COMMANDER

**Model:** 500  
**Trade Name:** AERO COMMANDER  
**Aircraft T.C./STC:** STC-SA340SO  
**Propeller Model:** EHC-A3MVF-2B  
**Propeller T.C.:** P6EA  
**Blade Model(s):** MV7636N\*1  
**Prop Diameter:** 76.6"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 11.8 +-0.1  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

#### Hartzell Approved Items:

| Item Type | Item Number | Description                  | Quantity | Qty Per | Comments |
|-----------|-------------|------------------------------|----------|---------|----------|
| BLADE     | MV7636N*1   | PCP:BLADE UNIT, ALUM [1,3,1] | 3        | Prop    |          |
| SPINNER   | 836-25P     | SPINNER ASSEMBLY             | 1        | Prop    |          |

**IDS No.:** 15      **Rev.:** -      **DM Date:** 10/25/1999

**Modifier:** COLEMILL ENTERPRISE  
**Engine Model:** IO-520-D, -E  
**Power:** 300 HP @ 2850 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** 17.3 +-1.5  
**Feather/High Angle:** 85.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

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### AERO COMMANDER

**Model:** 500  
**Trade Name:** AERO COMMANDER  
**Aircraft T.C./STC:** STC-SA257CE  
**Propeller Model:** HC-A3XK-2  
**Propeller T.C.:** P913  
**Blade Model(s):** 7636D  
**Prop Diameter:** 76.6"

#### Prop Setup:

**Ref. Radius:**  
**Reverse Angle:**  
**Low Pitch Angle:**  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

#### Hartzell Approved Items:

| Item Type | Item Number | Description      | Quantity | Qty Per | Comments |
|-----------|-------------|------------------|----------|---------|----------|
| BLADE     | 7636D       | BLADE            | 3        | Prop    |          |
| SPINNER   | C-2513-2    | SPINNER ASSEMBLY | 1        | Prop    |          |

**IDS No.:** 2332      **Rev.:** -      **DM Date:** 01/12/2004

**Modifier:** KELLY AEROSPACE POWER SYSTEMS  
**Engine Model:** IO-540-A1A5  
**Power:** 250 HP @ 2575 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:**  
**Feather/High Angle:**  
**Cwt Angle:**

**Non-HPI Governor:**

### AERO COMMANDER

**Model:** 500A  
**Trade Name:** SHRIKE  
**Aircraft T.C./STC:** SA340SO  
**Propeller Model:** EHC-G3YF-2UF  
**Propeller T.C.:** P55GL  
**Blade Model(s):** FC7663-4T  
**Prop Diameter:** 74"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.8 +-0.2  
**Stud Protrusion** 1.450 +-0.030

#### Non-HPI Items:

**Non-HPI Spinner:**

#### Hartzell Approved Items:

| Item Type     | Item Number     | Description              | Quantity | Qty Per | Comments                 |
|---------------|-----------------|--------------------------|----------|---------|--------------------------|
| PROPELLER     | G3F00029        | EHC-G3YF-2UF/FC7663-4T   | 2        | A/C     |                          |
| PROPELLER     | G3F00029KD      | EHC-G3YF-2UF/FC7663-4T   | 2        | A/C     |                          |
| BLADE         | FC7663-4T       | PCP:BLADE UNIT, ALUMINUM | 3        | Prop    |                          |
| MTG BOLT/STUD | A-2429-4        | STUD, MOUNTING, 1/2-20   | 6        | Prop    |                          |
| OVERHAUL KIT  | EHC-G3YF-2UF-OH | O/H KIT                  | 1        | Prop    | For aftermarket use only |

**IDS No.:** 2563      **Rev.:** 1      **IC Date:** 07/15/2015

**Modifier:** COLEMILL ENT.  
**Engine Model:** IO-520-E  
**Power:** 300 HP @ 2850 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** 18.3 +-1.5  
**Feather/High Angle:** 82.0 +-0.5  
**Cwt Angle:** POSITIVE

**Non-HPI Governor:**

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### AERO COMMANDER

**Model:** 500  
**Trade Name:** AERO COMMANDER  
**Aircraft T.C./STC:** STC-SA257CE  
**Propeller Model:** HC-A3VK-2  
**Propeller T.C.:** P6EA  
**Blade Model(s):** 7636D  
**Prop Diameter:** 76.6"

#### Prop Setup:

**Ref. Radius:**  
**Reverse Angle:**  
**Low Pitch Angle:**  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

#### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u> | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|--------------------|-----------------|----------------|-----------------|
| BLADE            | 7636D              | BLADE              | 3               | Prop           |                 |
| SPINNER          | C-2513-2           | SPINNER ASSEMBLY   | 1               | Prop           |                 |

**IDS No.:** 2333      **Rev.:** -      **DM Date:** 12/18/2003

**Modifier:** CONSOLIDATED  
**Engine Model:** IO-540-A1A5  
**Power:** 250 HP @ 2575 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:**  
**Feather/High Angle:**  
**Cwt Angle:**

**Non-HPI Governor:**

### AERO COMMANDER

**Model:** 500B, 500S, 500U  
**Trade Name:** AERO COMMANDER  
**Aircraft T.C./STC:** SA 5969NM  
**Propeller Model:** HC-C3YR-2UF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** FC8468D-6R  
**Prop Diameter:** 80" TO 79"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.0 +-0.1  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

#### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>            | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|-------------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | C3R00222           | HC-C3YR-2UF/FC8468D-6R        | 2               | A/C            |                          |
| PROPELLER        | C3R00222KD         | HC-C3YR-2UF/FC8468D-6R        | 2               | A/C            |                          |
| BLADE            | FC8468D-6R         | PCP:BLADE UNIT, B-3202H-2 CWT | 3               | Prop           |                          |
| SPINNER          | C-3258             | SPINNER ASSEMBLY              | 1               | Prop           |                          |
| SPINNER          | C-3258-P           | SPINNER ASSEMBLY              | 1               | Prop           |                          |
| COUNTERWEIGHT    | B-3202H-2          | PCP:COUNTERWEIGHT             | 1               | Blade          | Blade Component          |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20        | 6               | Prop           |                          |
| OVERHAUL KIT     | HC-C3YR-2UF-OH     | O/H KIT                       | 1               | Prop           | For aftermarket use only |

**IDS No.:** 1894      **Rev.:** 2      **IC Date:** 07/15/2015

**Modifier:** MERLYN PRODUCTS  
**Engine Model:** TIO-540-J2B(D)  
**Power:** 350 HP @ 2575 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** 16.5 +-1.5  
**Feather/High Angle:** 74.5 +-0.5  
**Cwt Angle:**

**Non-HPI Governor:**

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### AERO COMMANDER

**Model:** 500B, 500S, 500U  
**Trade Name:** AERO COMMANDER  
**Aircraft T.C./STC:** SA 5969NM  
**Propeller Model:** HC-C4YR-2  
**Propeller T.C.:** P52GL

**Blade Model(s):** FC6660K\*1  
**Prop Diameter:** 70"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 19.5 +-0.1  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

#### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>           | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>           |
|------------------|--------------------|------------------------------|-----------------|----------------|---------------------------|
| PROPELLER        | C4R00015           | HC-C4YR-2/FC6660K[*1]/SM20   | 2               | A/C            |                           |
| BLADE            | FC6660K*1          | PCP:BLADE UNIT, ALUM [1,3,1] | 4               | Prop           |                           |
| SPINNER          | D-4511-P           | SPINNER ASSEMBLY             | 1               | Prop           |                           |
| SPIN MTG KIT     | A-2476-20          | SPINNER - MTG KIT            | 1               | Prop           |                           |
| COUNTERWEIGHT    | B-3202H-6          | PCP:COUNTERWEIGHT            | 1               | Blade          | Blade Component           |
| DE-ICER          | 4H2271-10          | DE-ICE BOOT                  | 1               | Blade          | Supersedes 7931-4E2271-10 |
| DE-ICE KIT PR    | 7931-67-500-3      | DE-ICE KIT                   | 1               | Prop           |                           |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20       | 6               | Prop           |                           |
| OVERHAUL KIT     | HC-C4YR-2-OH       | O/H KIT                      | 1               | Prop           | For aftermarket use only  |

**IDS No.:** 1332      **Rev.:** 2      **IC Date:** 07/15/2015

**Modifier:** MERLYN PRODUCTS

**Engine Model:** TIO-540-J2B(D)

**Power:** 350 HP @ 2575 RPM

**Placard/Restr:** (1) Ground operation - "Prohibit sustained operation between 1700 and 2200 RPM."  
 (2) Flight Operation - "Avoid sustained operation below 2000 RPM at manifold pressures above 20 inches Hg."

**Notes:** Reference Manual 115N for Airworthiness Limitations.

**Startlock Angle:** 25.0 +-1.5

**Feather/High Angle:** 75.5 +-0.5

**Cwt Angle:**

**Non-HPI Governor:**

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### AERO COMMANDER

**Model:** 500B, 500S, 500U  
**Trade Name:** AERO COMMANDER  
**Aircraft T.C./STC:** STC-SA00169SE  
**Propeller Model:** HC-C3YR-2UF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** FC8468-6R\*2  
 FC8468D-6R\*1  
**Prop Diameter:** 80" TO 79"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.2 +-0.1  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 19      **Rev.:** -      **DM Date:** 07/15/2003

**Modifier:** MERLYN PRODUCTS  
**Engine Model:** IO-540-M1C5  
**Power:** 300 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** 18.7 +-1.5  
**Feather/High Angle:** 82.1 +-0.5  
**Cwt Angle:**

**Non-HPI Governor:**

#### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>             | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|--------------------------------|-----------------|----------------|-----------------|
| BLADE            | FC8468-6R*2        | PCP:BLADE UNIT, ALUM B-3202H-2 | 3               | Prop           |                 |
| BLADE            | FC8468D-6R*1       | PCP:BLADE UNIT, B3202H-2 CWT   | 3               | Prop           |                 |
| SPINNER          | C-3258             | SPINNER ASSEMBLY               | 1               | Prop           |                 |
| SPINNER          | C-3258-P           | SPINNER ASSEMBLY               | 1               | Prop           |                 |
| COUNTERWEIGHT    | B-3202H-2          | PCP:COUNTERWEIGHT              | 1               | Blade          | Blade Component |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20         | 6               | Prop           |                 |



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### AERO COMMANDER

**Model:** 500U, 500S  
**Trade Name:** AERO COMMANDER  
**Aircraft T.C./STC:** STC-SA2478SW  
**Propeller Model:** HC-A3MVK-2A  
**Propeller T.C.:** P6EA  
**Blade Model(s):** MV8433N-4Q\*1  
 MV8433N-4R\*1  
**Prop Diameter:** 80 5/8"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.5 +-0.5  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 13      **Rev.:** 2      **IC Date:** 07/07/2015

**Modifier:** MR. RPM  
**Engine Model:** IO-720-B1B, -B1BD  
**Power:** 400 HP @ 2650 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 82.0 +-1.0  
**Cwt Angle:** Positive

**Non-HPI Governor:**

#### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>            | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|-------------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | A3K10095           | HC-A3MVK-2A/MV8433N-4R[*1]    | 2               | A/C            |                          |
| BLADE            | MV8433N-4Q*1       | PCP:BLADE UNIT, ALUM [1,3,1]  | 3               | Prop           |                          |
| BLADE            | MV8433N-4R*1       | PCP:BLADE UNIT, ALUM [1,3,1]  | 3               | Prop           |                          |
| SPINNER          | C-2513             | SPINNER ASSEMBLY              | 1               | Prop           |                          |
| SPINNER          | C-2513-2           | SPINNER ASSEMBLY              | 1               | Prop           |                          |
| SPINNER          | C-2513-2P          | SPINNER ASSEMBLY              | 1               | Prop           |                          |
| SPINNER          | C-2513-P           | SPINNER ASSEMBLY              | 1               | Prop           |                          |
| MTG BOLT/STUD    | A-1328             | BOLT,MOUNTING,1/2-20,12 POINT | 3               | Prop           |                          |
| MTG BOLT/STUD    | A-1333-3           | BOLT,MOUNTING,1/2-20,HEX HEAD | 3               | Prop           |                          |
| OVERHAUL KIT     | HC-A3MVK-2A-OH     | O/H KIT                       | 1               | Prop           | For aftermarket use only |

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### AERO COMMANDER

**Model:** 500U, 500S  
**Trade Name:** AERO COMMANDER  
**Aircraft T.C./STC:** STC-SA2478SW  
**Propeller Model:** HC-A3VK-2A  
**Propeller T.C.:** P6EA  
**Blade Model(s):** V8433N-4Q  
V8433N-4R  
**Prop Diameter:** 80 5/8"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.5 +-0.5  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 2308      **Rev.:** -      **DM Date:** 11/24/2003

**Modifier:** MR. RPM  
**Engine Model:** IO-720-B1B, -B1BD  
**Power:** 400 HP @ 2650 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 82.0 +-1.0  
**Cwt Angle:** Positive

**Non-HPI Governor:**

#### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>            | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|-------------------------------|-----------------|----------------|-----------------|
| BLADE            | V8433N-4Q          | BLADE                         | 3               | Prop           |                 |
| BLADE            | V8433N-4R          | BLADE                         | 3               | Prop           |                 |
| SPINNER          | C-2513             | SPINNER ASSEMBLY              | 1               | Prop           |                 |
| SPINNER          | C-2513-2           | SPINNER ASSEMBLY              | 1               | Prop           |                 |
| SPINNER          | C-2513-2P          | SPINNER ASSEMBLY              | 1               | Prop           |                 |
| SPINNER          | C-2513-P           | SPINNER ASSEMBLY              | 1               | Prop           |                 |
| MTG BOLT/STUD    | A-1328             | BOLT,MOUNTING,1/2-20,12 POINT | 3               | Prop           |                 |
| MTG BOLT/STUD    | A-1333-3           | BOLT,MOUNTING,1/2-20,HEX HEAD | 3               | Prop           |                 |

# HARTZELL

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### AERO COMMANDER

**Model:** 500A  
**Trade Name:**  
**Aircraft T.C./STC:** SR02088SE  
**Propeller Model:** PHC-C3YF-2UF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** FC8468D-8R  
**Prop Diameter:** 78" to 76"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** 10.0 +/- 0.2  
**Stud Protrusion:** 1.450 + - 0.030

#### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 3012      **Rev.:** 2      **IC Date:** 07/15/2015

**Modifier:** Palm Beach Aviation Services

**Engine Model:** IO-520-E

**Power:** 285 HP @ 2700 RPM

**Placard/Restr:**

**Notes:** IO-520-E engines installed per STC SA340SO

**Startlock Angle:** 15.5 +/- 1.5

**Feather/High Angle:** 82.0 +/- 1.0

**Cwt Angle:**

**Non-HPI Governor:**

#### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>          | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>             |
|------------------|--------------------|-----------------------------|-----------------|----------------|-----------------------------|
| PROPELLER        | C3F00450           | PHC-C3YF-2UF/FC8468D-8R/SM9 | 2               | A/C            |                             |
| BLADE            | FC8468D-8R         | PCP:BLADE UNIT, ALUMINUM    | 3               | Prop           |                             |
| SPINNER          | C-3567-4           | SPINNER ASSEMBLY            | 1               | Prop           |                             |
| SPINNER          | C-3567-4P          | SPINNER ASSEMBLY            | 1               | Prop           |                             |
| SPIN MTG KIT     | A-2476-9           | SPINNER - MTG KIT           | 1               | Prop           |                             |
| COUNTERWEIGHT    | B-3202H-2          | PCP:COUNTERWEIGHT           | 1               | Blade          |                             |
| MTG BOLT/STUD    | A-2429-4           | STUD, MOUNTING, 1/2-20      | 6               | Prop           | Use only with E-7167-2 Hub  |
| MTG BOLT/STUD    | A-2429-7           | STUD, MOUNTING, 1/2-20      | 6               | Prop           | Use only with E-7167-12 Hub |
| OVERHAUL KIT     | PHC-C3YF-2UF*1     | O/H KIT W/O SLIMSERTS       | 1               | Prop           | For aftermarket use only    |
| OVERHAUL KIT     | PHC-C3YF-2UF-OH    | O/H KIT                     | 1               | Prop           | For aftermarket use only    |

### AERO COMMANDER

**Model:** 500  
**Trade Name:** AERO COMMANDER  
**Aircraft T.C./STC:** Unknown  
**Propeller Model:** HC-A3VK-2B  
**Propeller T.C.:** P6EA  
**Blade Model(s):** V7636  
V7636N

**Prop Diameter:**

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 16.0 +/- 0.1  
**Stud Protrusion:**

#### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 2335      **Rev.:** -      **DM Date:** 12/04/2003

**Modifier:**

**Engine Model:** O-540-A2B

**Power:** HP @ RPM

**Placard/Restr:**

**Notes:**

**Startlock Angle:** NA

**Feather/High Angle:** 85.0 +/- 1.0

**Cwt Angle:**

**Non-HPI Governor:**

#### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u> | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|--------------------|-----------------|----------------|-----------------|
| BLADE            | V7636              | IDS ITEM           | 3               | Prop           |                 |
| BLADE            | V7636N             | BLADE              | 3               | Prop           |                 |

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### AERO COMMANDER

**Model:** 500  
**Trade Name:** AERO COMMANDER  
**Aircraft T.C./STC:** Unknown  
**Propeller Model:** HC-A3XK-2B  
**Propeller T.C.:** P913  
**Blade Model(s):**  
**Prop Diameter:**

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 16.0 +-0.1  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

#### Hartzell Approved Items:

**IDS No.:** 2334      **Rev.:** -      **DM Date:** 12/01/2003

**Modifier:**  
**Engine Model:** O-540-A2B  
**Power:** HP @ RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 85.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

### AERO COMMANDER

**Model:** 520  
**Trade Name:** AERO COMMANDER  
**Aircraft T.C./STC:** 6A1  
**Propeller Model:** HC-82X20-2, HC-A2X20-2  
**Propeller T.C.:** P24EA  
**Blade Model(s):** 9333C-3  
**Prop Diameter:** 90" TO 88"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 18.0 +-0.2  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

#### Hartzell Approved Items:

**IDS No.:** 2062      **Rev.:** -      **DM Date:** 11/20/2003

**Modifier:**  
**Engine Model:** GO-435-C2, -C2B, -C2B1  
**Power:** 260 HP @ 2182 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** 28.5 +-1.5  
**Feather/High Angle:** 89.0 +-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:** HAMILTON, WOODWARD

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>         | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|----------------------------|-----------------|----------------|-----------------|
| BLADE            | 9333C-3            | BLADE                      | 2               | Prop           |                 |
| SPINNER          | 835-1S             | IDS Item                   | 1               | Prop           |                 |
| GOVERNOR         | A1-B               | GOVERNOR ASSEMBLY, A-1-( ) | 1               | Prop           |                 |
| GOVERNOR         | C-137-1B           | T - DRIVE - ASSEMBLY       | 1               | Prop           | T Drive         |
| MTG BOLT/STUD    | A-63B              | PCP: NUT, SHAFT, 20 SPLINE | 1               | Prop           |                 |
| MTG BOLT/STUD    | A-63-B             | NUT,SHAFT,20 SPLINE        | 1               | Prop           |                 |

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### AERO COMMANDER

**Model:** 520  
**Trade Name:** AERO COMMANDER  
**Aircraft T.C./STC:** 6A1  
**Propeller Model:** HC-82V20-2, HC-A2V20-2  
**Propeller T.C.:** P24EA  
**Blade Model(s):** V9333C-3  
**Prop Diameter:** 90" TO 88"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 18.0 +-0.2  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 2063      **Rev.:** -      **DM Date:** 11/20/2003

#### Modifier:

**Engine Model:** GO-435-C2, -C2B, -C2B1

**Power:** 260 HP @ 2182 RPM

#### Placard/Restr:

#### Notes:

**Startlock Angle:** 28.5 +-1.5

**Feather/High Angle:** 89.0 +-0.5

**Cwt Angle:** Positive

**Non-HPI Governor:** HAMILTON, WOODWARD

#### Hartzell Approved Items:

| Item Type     | Item Number | Description                | Quantity | Qty Per | Comments |
|---------------|-------------|----------------------------|----------|---------|----------|
| BLADE         | V9333C-3    | BLADE                      | 2        | Prop    |          |
| SPINNER       | 835-1S      | IDS Item                   | 1        | Prop    |          |
| GOVERNOR      | A1-B        | GOVERNOR ASSEMBLY, A-1-()  | 1        | Prop    |          |
| GOVERNOR      | C-137-1B    | T - DRIVE - ASSEMBLY       | 1        | Prop    | T Drive  |
| MTG BOLT/STUD | A-63B       | PCP: NUT, SHAFT, 20 SPLINE | 1        | Prop    |          |
| MTG BOLT/STUD | A-63-B      | NUT,SHAFT,20 SPLINE        | 1        | Prop    |          |

### AERO COMMANDER

**Model:** 520  
**Trade Name:** AERO COMMANDER  
**Aircraft T.C./STC:** 6A1  
**Propeller Model:** HC-A2MV20-2  
**Propeller T.C.:** P24EA  
**Blade Model(s):** MV9333N-3\*1  
**Prop Diameter:** 90" TO 88"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 18.0  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 22      **Rev.:** 1      **D Date:** 01/07/2011

#### Modifier:

**Engine Model:** GO-435-C2, -C2B, -C2B1

**Power:** 260 HP @ 2182 RPM

#### Placard/Restr:

#### Notes:

**Startlock Angle:** 28.5

**Feather/High Angle:** 89.0

**Cwt Angle:** Positive

**Non-HPI Governor:** HAMILTON, WOODWARD

#### Hartzell Approved Items:

| Item Type     | Item Number | Description                  | Quantity | Qty Per | Comments |
|---------------|-------------|------------------------------|----------|---------|----------|
| BLADE         | MV9333N-3*1 | PCP:BLADE UNIT, ALUM [1,3,1] | 2        | Prop    |          |
| SPINNER       | 835-1S      | IDS Item                     | 1        | Prop    |          |
| GOVERNOR      | A1-B        | GOVERNOR ASSEMBLY, A-1-()    | 2        | A/C     |          |
| GOVERNOR      | C-137-1B    | T - DRIVE - ASSEMBLY         | 2        | A/C     | T Drive  |
| MTG BOLT/STUD | A-63B       | PCP: NUT, SHAFT, 20 SPLINE   | 1        | Prop    |          |
| MTG BOLT/STUD | A-63-B      | NUT,SHAFT,20 SPLINE          | 1        | Prop    |          |

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### AERO COMMANDER

**Model:** 520  
**Trade Name:** AERO COMMANDER  
**Aircraft T.C./STC:** 6A1  
**Propeller Model:** HC-83X20-2, HC-A3X20-2  
**Propeller T.C.:** P6EA  
**Blade Model(s):** 8433  
**Prop Diameter:** 84" NO CUT OFF

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 16.0+- .1  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 2060 **Rev.:** - **DM Date:** 11/20/2003

**Modifier:**  
**Engine Model:** GO-435-C2, -C2B, -C2B1  
**Power:** 260 HP @ 2182 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** 26.5+-1.5  
**Feather/High Angle:** 87.0+-1.0  
**Cwt Angle:** Positive

**Non-HPI Governor:** WOODWARD

#### Hartzell Approved Items:

| Item Type     | Item Number | Description                | Quantity | Qty Per | Comments |
|---------------|-------------|----------------------------|----------|---------|----------|
| BLADE         | 8433        | BLADE                      | 3        | Prop    |          |
| SPINNER       | 835-10S     | SPINNER ASSEMBLY           | 1        | Prop    |          |
| SPINNER       | 835-9       | IDS Item                   | 1        | Prop    |          |
| MTG BOLT/STUD | A-63B       | PCP: NUT, SHAFT, 20 SPLINE | 1        | Prop    |          |
| MTG BOLT/STUD | A-63-B      | NUT,SHAFT,20 SPLINE        | 1        | Prop    |          |

### AERO COMMANDER

**Model:** 520  
**Trade Name:** AERO COMMANDER  
**Aircraft T.C./STC:** 6A1  
**Propeller Model:** HC-83V20-2, HC-A3V20-2  
**Propeller T.C.:** P6EA  
**Blade Model(s):** V8433  
V8433N  
**Prop Diameter:** 84" NO CUT OFF

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 16.0+- .1  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 2061 **Rev.:** - **DM Date:** 11/20/2003

**Modifier:**  
**Engine Model:** GO-435-C2, -C2B, -C2B1  
**Power:** 260 HP @ 2182 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** 26.5+-1.5  
**Feather/High Angle:** 87.0+-1.0  
**Cwt Angle:** Positive

**Non-HPI Governor:** WOODWARD

#### Hartzell Approved Items:

| Item Type     | Item Number | Description                | Quantity | Qty Per | Comments |
|---------------|-------------|----------------------------|----------|---------|----------|
| BLADE         | V8433       | BLADE                      | 3        | Prop    |          |
| BLADE         | V8433N      | BLADE                      | 3        | Prop    |          |
| SPINNER       | 835-10S     | SPINNER ASSEMBLY           | 1        | Prop    |          |
| SPINNER       | 835-9       | IDS Item                   | 1        | Prop    |          |
| MTG BOLT/STUD | A-63B       | PCP: NUT, SHAFT, 20 SPLINE | 1        | Prop    |          |
| MTG BOLT/STUD | A-63-B      | NUT,SHAFT,20 SPLINE        | 1        | Prop    |          |

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### AERO COMMANDER

**Model:** 520  
**Trade Name:** AERO COMMANDER  
**Aircraft T.C./STC:** 6A1  
**Propeller Model:** HC-A3MV20-2  
**Propeller T.C.:** P6EA  
**Blade Model(s):** MV8433N\*1  
**Prop Diameter:** 84" NO CUT OFF

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 16.0+- .1  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 20      **Rev.:** 2      **IC Date:** 07/07/2015

**Modifier:**  
**Engine Model:** GO-435-C2, -C2B, -C2B1  
**Power:** 260 HP @ 2182 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** 26.5+-1.5  
**Feather/High Angle:** 87.0+-1.0  
**Cwt Angle:** Positive

**Non-HPI Governor:** WOODWARD

#### Hartzell Approved Items:

| Item Type     | Item Number    | Description                  | Quantity | Qty Per | Comments                 |
|---------------|----------------|------------------------------|----------|---------|--------------------------|
| PROPELLER     | A3210065       | HC-A3MV20-2/MV8433N[*1]      | 2        | A/C     |                          |
| BLADE         | MV8433N*1      | PCP:BLADE UNIT, ALUM [1,3,1] | 3        | Prop    |                          |
| SPINNER       | 835-10S        | SPINNER ASSEMBLY             | 1        | Prop    |                          |
| SPINNER       | 835-9          | IDS Item                     | 1        | Prop    |                          |
| MTG BOLT/STUD | A-63B          | PCP: NUT, SHAFT, 20 SPLINE   | 1        | Prop    |                          |
| MTG BOLT/STUD | A-63-B         | NUT,SHAFT,20 SPLINE          | 1        | Prop    |                          |
| OVERHAUL KIT  | HC-A3MV20-2-OH | O/H KIT                      | 1        | Prop    | For aftermarket use only |

### AERO COMMANDER

**Model:** 560  
**Trade Name:** AERO COMMANDER  
**Aircraft T.C./STC:** 6A1  
**Propeller Model:** HC-82X20-2, HC-A2X20-2  
**Propeller T.C.:** P24EA  
**Blade Model(s):** 9333C-3  
**Prop Diameter:** 90" TO 88"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 18.0 +-0.2  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 2064      **Rev.:** -      **DM Date:** 11/20/2003

**Modifier:**  
**Engine Model:** GO-480-B, -B1C  
**Power:** 270 HP @ 2182 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** 28.5 +-1.5  
**Feather/High Angle:** 89.0 +-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:** WOODWARD

#### Hartzell Approved Items:

| Item Type     | Item Number | Description                | Quantity | Qty Per | Comments |
|---------------|-------------|----------------------------|----------|---------|----------|
| BLADE         | 9333C-3     | BLADE                      | 2        | Prop    |          |
| SPINNER       | 835-1S      | IDS Item                   | 1        | Prop    |          |
| GOVERNOR      | A1          | IDS Item                   | 1        | Prop    |          |
| GOVERNOR      | C-137-1B    | T - DRIVE - ASSEMBLY       | 1        | Prop    | T Drive  |
| MTG BOLT/STUD | A-63B       | PCP: NUT, SHAFT, 20 SPLINE | 1        | Prop    |          |
| MTG BOLT/STUD | A-63-B      | NUT,SHAFT,20 SPLINE        | 1        | Prop    |          |

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### AERO COMMANDER

**Model:** 560  
**Trade Name:** AERO COMMANDER  
**Aircraft T.C./STC:** 6A1  
**Propeller Model:** HC-82V20-2, HC-A2V20-2  
**Propeller T.C.:** P24EA  
**Blade Model(s):** V9333C-3  
**Prop Diameter:** 90" TO 88"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 18.0 +-0.2  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 2065      **Rev.:** -      **DM Date:** 11/20/2003

**Modifier:**  
**Engine Model:** GO-480-B, -B1C  
**Power:** 270 HP @ 2182 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** 28.5 +-1.5  
**Feather/High Angle:** 89.0 +-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:** WOODWARD

#### Hartzell Approved Items:

| Item Type     | Item Number | Description                | Quantity | Qty Per | Comments |
|---------------|-------------|----------------------------|----------|---------|----------|
| BLADE         | V9333C-3    | BLADE                      | 2        | Prop    |          |
| SPINNER       | 835-1S      | IDS Item                   | 1        | Prop    |          |
| GOVERNOR      | A1          | IDS Item                   | 1        | Prop    |          |
| GOVERNOR      | C-137-1B    | T - DRIVE - ASSEMBLY       | 1        | Prop    | T Drive  |
| MTG BOLT/STUD | A-63B       | PCP: NUT, SHAFT, 20 SPLINE | 1        | Prop    |          |
| MTG BOLT/STUD | A-63-B      | NUT,SHAFT,20 SPLINE        | 1        | Prop    |          |

### AERO COMMANDER

**Model:** 560  
**Trade Name:** AERO COMMANDER  
**Aircraft T.C./STC:** 6A1  
**Propeller Model:** HC-A2MV20-2  
**Propeller T.C.:** P24EA  
**Blade Model(s):** MV9333N-3\*1  
**Prop Diameter:** 90" TO 88"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 18.0 +-0.2  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 23      **Rev.:** 1      **D Date:** 01/07/2011

**Modifier:**  
**Engine Model:** GO-480-B, -B1C  
**Power:** 270 HP @ 2182 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** 28.5 +-1.5  
**Feather/High Angle:** 89.0 +-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:** WOODWARD

#### Hartzell Approved Items:

| Item Type     | Item Number | Description                  | Quantity | Qty Per | Comments |
|---------------|-------------|------------------------------|----------|---------|----------|
| BLADE         | MV9333N-3*1 | PCP:BLADE UNIT, ALUM [1,3,1] | 2        | Prop    |          |
| SPINNER       | 835-1S      | IDS Item                     | 1        | Prop    |          |
| GOVERNOR      | A1          | IDS Item                     | 2        | A/C     |          |
| GOVERNOR      | C-137-1B    | T - DRIVE - ASSEMBLY         | 2        | A/C     | T Drive  |
| MTG BOLT/STUD | A-63B       | PCP: NUT, SHAFT, 20 SPLINE   | 1        | Prop    |          |
| MTG BOLT/STUD | A-63-B      | NUT,SHAFT,20 SPLINE          | 1        | Prop    |          |



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### AERO COMMANDER

**Model:** 560  
**Trade Name:** AERO COMMANDER  
**Aircraft T.C./STC:** 6A1  
**Propeller Model:** HC-A3X20-2  
**Propeller T.C.:** P-913  
**Blade Model(s):** 8433  
**Prop Diameter:** 84" NO CUTOFF

**IDS No.:** 2542      **Rev.:** 1      **D**      **Date:** 01/10/2011

**Modifier:**  
**Engine Model:** GO-480-B, -B1C  
**Power:** 270 HP @ 2182 RPM  
**Placard/Restr:**

**Notes:** Spinner Assembly may need to be upgraded to current spinner assembly configuration; Prop originally HC-83X20-2.

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** 16.0 +-0.2  
**Stud Protrusion**

**Startlock Angle:** 26.3 +-1.5  
**Feather/High Angle:** 87.0 +-0.5  
**Cwt Angle:** Positive

#### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:** 210075 OR 210245

#### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>         | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|----------------------------|-----------------|----------------|-----------------|
| BLADE            | 8433               | BLADE                      | 3               | Prop           |                 |
| MTG BOLT/STUD    | A-63B              | PCP: NUT, SHAFT, 20 SPLINE | 1               | Prop           |                 |
| MTG BOLT/STUD    | A-63-B             | NUT,SHAFT,20 SPLINE        | 1               | Prop           |                 |

### AERO COMMANDER

**Model:** 560  
**Trade Name:** AERO COMMANDER  
**Aircraft T.C./STC:** 6A1  
**Propeller Model:** HC-A3V20-2  
**Propeller T.C.:** P6EA  
**Blade Model(s):** V8433N  
**Prop Diameter:** 84" NO CUTOFF

**IDS No.:** 2543      **Rev.:** 1      **D**      **Date:** 01/10/2011

**Modifier:**  
**Engine Model:** GO-480-B, -B1C  
**Power:** 270 HP @ 2182 RPM  
**Placard/Restr:**

**Notes:** Spinner Assembly may need upgraded to current Spinner Assembly Configuration; Prop originally HC-83V20-2

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** 16.0 +-0.5  
**Stud Protrusion**

**Startlock Angle:** 26.3 +-1.5  
**Feather/High Angle:** 87.0 +-0.5  
**Cwt Angle:** Positive

#### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:** 210075 OR 210245

#### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>         | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|----------------------------|-----------------|----------------|-----------------|
| BLADE            | V8433N             | BLADE                      | 3               | Prop           |                 |
| MTG BOLT/STUD    | A-63B              | PCP: NUT, SHAFT, 20 SPLINE | 1               | Prop           |                 |
| MTG BOLT/STUD    | A-63-B             | NUT,SHAFT,20 SPLINE        | 1               | Prop           |                 |

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### AERO COMMANDER

**Model:** 560  
**Trade Name:** AERO COMMANDER  
**Aircraft T.C./STC:** 6A1  
**Propeller Model:** HC-A3MV20-2  
**Propeller T.C.:** P6EA  
**Blade Model(s):** MV8433N  
**Prop Diameter:** 84" NOT CUTOFF

**IDS No.:** 2541      **Rev.:** 1      **D**      **Date:** 01/10/2011

**Modifier:**  
**Engine Model:** GO-480-B, -B1C  
**Power:** 270 HP @ 2182 RPM  
**Placard/Restr:**

**Notes:** Spinner Assembly may need to be upgraded to current Spinner Assembly Configuration.

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** 16.0 +-0.2  
**Stud Protrusion**

**Startlock Angle:** 26.5 +-1.5  
**Feather/High Angle:** 87.0 +-0.5  
**Cwt Angle:** Positive

#### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:** 210075 OR 210245

#### Hartzell Approved Items:

| Item Type     | Item Number | Description                  | Quantity | Qty Per | Comments |
|---------------|-------------|------------------------------|----------|---------|----------|
| BLADE         | MV8433N     | PCP:BLADE UNIT, ALUM [1,1,1] | 3        | Prop    |          |
| MTG BOLT/STUD | A-63B       | PCP: NUT, SHAFT, 20 SPLINE   | 1        | Prop    |          |
| MTG BOLT/STUD | A-63-B      | NUT,SHAFT,20 SPLINE          | 1        | Prop    |          |

### AERO COMMANDER

**Model:** 560A  
**Trade Name:** AERO COMMANDER  
**Aircraft T.C./STC:** 6A1  
**Propeller Model:** HC-83V20-2, HC-A3V20-2  
**Propeller T.C.:** P6EA  
**Blade Model(s):** V8433  
V8433N  
**Prop Diameter:** 84.6" TO 84"

**IDS No.:** 2068      **Rev.:** -      **DM**      **Date:** 03/07/2005

**Modifier:**  
**Engine Model:** GO-480-D1A, -C1B6, -G1B6  
**Power:** 275 HP @ 2182 RPM  
**Placard/Restr:**

**Notes:**

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 16.0+-0.2  
**Stud Protrusion**

**Startlock Angle:** 26.5+-1.5  
**Feather/High Angle:** 87.0+-0.5  
**Cwt Angle:** Positive

#### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:** WOODWARD

#### Hartzell Approved Items:

| Item Type     | Item Number | Description                | Quantity | Qty Per | Comments |
|---------------|-------------|----------------------------|----------|---------|----------|
| BLADE         | V8433       | BLADE                      | 3        | Prop    |          |
| BLADE         | V8433N      | BLADE                      | 3        | Prop    |          |
| SPINNER       | 835-10S     | SPINNER ASSEMBLY           | 1        | Prop    |          |
| SPINNER       | 835-9       | IDS Item                   | 1        | Prop    |          |
| MTG BOLT/STUD | A-63B       | PCP: NUT, SHAFT, 20 SPLINE | 1        | Prop    |          |
| MTG BOLT/STUD | A-63-B      | NUT,SHAFT,20 SPLINE        | 1        | Prop    |          |

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### AERO COMMANDER

**Model:** 560A  
**Trade Name:** AERO COMMANDER  
**Aircraft T.C./STC:** 6A1  
**Propeller Model:** HC-83X20-2, HC-A3X20-2  
**Propeller T.C.:** P6EA  
**Blade Model(s):** 8433  
**Prop Diameter:** 84.6" TO 84"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 16.0+-0.2  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 2067      **Rev.:** -      **DM Date:** 03/04/2005

**Modifier:**  
**Engine Model:** GO-480-D1A, -C1B6, -G1B6  
**Power:** 275 HP @ 2182 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** 26.5+-1.5  
**Feather/High Angle:** 87.0+-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:** WOODWARD

#### Hartzell Approved Items:

| Item Type     | Item Number | Description                | Quantity | Qty Per | Comments |
|---------------|-------------|----------------------------|----------|---------|----------|
| BLADE         | 8433        | BLADE                      | 3        | Prop    |          |
| SPINNER       | 835-10S     | SPINNER ASSEMBLY           | 1        | Prop    |          |
| SPINNER       | 835-9       | IDS Item                   | 1        | Prop    |          |
| MTG BOLT/STUD | A-63B       | PCP: NUT, SHAFT, 20 SPLINE | 1        | Prop    |          |
| MTG BOLT/STUD | A-63-B      | NUT,SHAFT,20 SPLINE        | 1        | Prop    |          |

### AERO COMMANDER

**Model:** 560A  
**Trade Name:** AERO COMMANDER  
**Aircraft T.C./STC:** 6A1  
**Propeller Model:** HC-A3MV20-2  
**Propeller T.C.:** P6EA  
**Blade Model(s):** MV8433N\*1  
**Prop Diameter:** 84.6" TO 84"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 16.0+-0.2  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 24      **Rev.:** 2      **IC Date:** 07/07/2015

**Modifier:**  
**Engine Model:** GO-480-D1A, -C1B6, -G1B6  
**Power:** 295 HP @ 2182 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** 26.5+-1.5  
**Feather/High Angle:** 87.0+-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:** WOODWARD

#### Hartzell Approved Items:

| Item Type     | Item Number    | Description                  | Quantity | Qty Per | Comments                 |
|---------------|----------------|------------------------------|----------|---------|--------------------------|
| PROPELLER     | A3210068       | HC-A3MV20-2/MV8433N[*1]      | 2        | A/C     |                          |
| BLADE         | MV8433N*1      | PCP:BLADE UNIT, ALUM [1,3,1] | 3        | Prop    |                          |
| SPINNER       | 835-10S        | SPINNER ASSEMBLY             | 1        | Prop    |                          |
| SPINNER       | 835-9          | IDS Item                     | 1        | Prop    |                          |
| MTG BOLT/STUD | A-63B          | PCP: NUT, SHAFT, 20 SPLINE   | 1        | Prop    |                          |
| MTG BOLT/STUD | A-63-B         | NUT,SHAFT,20 SPLINE          | 1        | Prop    |                          |
| OVERHAUL KIT  | HC-A3MV20-2-OH | O/H KIT                      | 1        | Prop    | For aftermarket use only |

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### AERO COMMANDER

**Model:** 560A, 560E  
**Trade Name:** AERO COMMANDER  
**Aircraft T.C./STC:** 6A1  
**Propeller Model:** HC-83X20-2, HC-A3X20-2  
**Propeller T.C.:** P6EA  
  
**Blade Model(s):** 8833-2  
**Prop Diameter:** 86.4" TO 86"

**IDS No.:** 2069      **Rev.:** 1      **D**      **Date:** 01/07/2011

**Modifier:**  
**Engine Model:** GO-480-C1B6, -G1B6  
**Power:** 295 HP @ 2182 RPM  
**Placard/Restr:** Avoid continuous operation in flight below 2400 RPM.  
**Notes:** BFGoodrich STC-SA132EA for deice dated 6/28/63; Bulkhead drilled per STC Template

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 17.0 +-0.2  
**Stud Protrusion**

**Startlock Angle:** 26.5 +-1.5  
**Feather/High Angle:** 83.0 +-0.5  
**Cwt Angle:** Positive

#### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:** WOODWARD

#### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>         | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|----------------------------|-----------------|----------------|--------------------------|
| BLADE            | 8833-2             | IDS ITEM                   | 3               | Prop           |                          |
| SPINNER          | 836-22SPR          | SPINNER ASSEMBLY           | 1               | Prop           |                          |
| DE-ICER          | 4H1188-3           | DE-ICE BOOT                | 1               | Blade          | Supersedes 7931-4E1188-3 |
| DE-ICE KIT PR    | 7931-77-320        | IDS ITEM - DE-ICE KIT      | 1               | Prop           |                          |
| MTG BOLT/STUD    | A-63B              | PCP: NUT, SHAFT, 20 SPLINE | 1               | Prop           |                          |
| MTG BOLT/STUD    | A-63-B             | NUT,SHAFT,20 SPLINE        | 1               | Prop           |                          |

### AERO COMMANDER

**Model:** 560A, 560E  
**Trade Name:** AERO COMMANDER  
**Aircraft T.C./STC:** 6A1  
**Propeller Model:** HC-A3V20-2  
**Propeller T.C.:** P6EA  
  
**Blade Model(s):** V8833N-2  
**Prop Diameter:** 86.4" TO 86"

**IDS No.:** 2309      **Rev.:** 1      **D**      **Date:** 01/10/2011

**Modifier:**  
**Engine Model:** GO-480-C1B6, -G1B6  
**Power:** 295 HP @ 2182 RPM  
**Placard/Restr:** Avoid continuous operation in flight below 2400 RPM.  
**Notes:** BFGoodrich STC-SA132EA for deice dated 6/28/63; Bulkhead drilled per STC Template

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 17.0 +-0.2  
**Stud Protrusion**

**Startlock Angle:** 26.5 +-1.5  
**Feather/High Angle:** 83.0 +-0.5  
**Cwt Angle:** Positive

#### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:** WOODWARD

#### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>         | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|----------------------------|-----------------|----------------|--------------------------|
| BLADE            | V8833N-2           | BLADE UNIT                 | 3               | Prop           |                          |
| SPINNER          | 836-22SPR          | SPINNER ASSEMBLY           | 1               | Prop           |                          |
| DE-ICER          | 4H1188-3           | DE-ICE BOOT                | 1               | Blade          | Supersedes 7931-4E1188-3 |
| DE-ICE KIT PR    | 7931-77-320        | IDS ITEM - DE-ICE KIT      | 1               | Prop           |                          |
| MTG BOLT/STUD    | A-63B              | PCP: NUT, SHAFT, 20 SPLINE | 1               | Prop           |                          |
| MTG BOLT/STUD    | A-63-B             | NUT,SHAFT,20 SPLINE        | 1               | Prop           |                          |

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### AERO COMMANDER

**Model:** 560A, 560E  
**Trade Name:** AERO COMMANDER  
**Aircraft T.C./STC:** 6A1  
**Propeller Model:** HC-A3MV20-2  
**Propeller T.C.:** P6EA  
**Blade Model(s):** MV8833N-2  
 MV8833NB-2  
**Prop Diameter:** 86.4" TO 86"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 17.0 +-0.2  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 25      **Rev.:** 2      **IC Date:** 07/07/2015

**Modifier:**  
**Engine Model:** GO-480-C1B6, -G1B6  
**Power:** 295 HP @ 2182 RPM  
**Placard/Restr:**

**Notes:** BFGoodrich STC-SA132EA for deice dated 6/28/63; Bulkhead drilled per STC Template

**Startlock Angle:** 26.5 +-1.5  
**Feather/High Angle:** 83.0 +-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:** WOODWARD

#### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>         | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|----------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | A3210062           | HC-A3MV20-2/MV8833N-2      | 2               | A/C            |                          |
| PROPELLER        | A3210063           | HC-A3MV20-2/MV8833NB-2     | 2               | A/C            |                          |
| BLADE            | MV8833N-2          | PCP:BLADE UNIT, ALUMINUM   | 3               | Prop           |                          |
| BLADE            | MV8833NB-2         | PCP:BLADE UNIT, ALUMINUM   | 3               | Prop           |                          |
| SPINNER          | 836-22SPR          | SPINNER ASSEMBLY           | 1               | Prop           |                          |
| DE-ICER          | 4H1188-3           | DE-ICE BOOT                | 1               | Blade          | Supersedes 7931-4E1188-3 |
| DE-ICE KIT PR    | 7931-77-320        | IDS ITEM - DE-ICE KIT      | 0               |                |                          |
| MTG BOLT/STUD    | A-63B              | PCP: NUT, SHAFT, 20 SPLINE | 1               | Prop           |                          |
| MTG BOLT/STUD    | A-63-B             | NUT,SHAFT,20 SPLINE        | 1               | Prop           |                          |
| OVERHAUL KIT     | HC-A3MV20-2-OH     | O/H KIT                    | 1               | Prop           | For aftermarket use only |

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### AERO COMMANDER

**Model:** 560-F  
**Trade Name:** AERO COMMANDER  
**Aircraft T.C./STC:** 2A4  
**Propeller Model:** HC-B3Z30-2B  
**Propeller T.C.:** P-907  
**Blade Model(s):** 9349-6.5  
 9349N-6.5  
**Prop Diameter:** 87" NO CUT OFF

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 18 +- 0.2  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 1561      **Rev.:** 1      **D**      **Date:** 01/10/2011

**Modifier:** N/A  
**Engine Model:** IGO-540-B1A, -B1C  
**Power:** 350 HP @ 2182 RPM  
**Placard/Restr:**  
**Notes:** N/A

**Startlock Angle:** NA  
**Feather/High Angle:** 86.0 +- 0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:** WOODWARD

#### Hartzell Approved Items:

| Item Type     | Item Number | Description               | Quantity | Qty Per | Comments  |
|---------------|-------------|---------------------------|----------|---------|-----------|
| BLADE         | 9349-6.5    | BLADE UNIT, ALUMINUM      | 3        | Prop    |           |
| BLADE         | 9349N-6.5   | PCP:BLADE UNIT, ALUMINUM  | 3        | Prop    |           |
| SPINNER       | C-2504      | SPINNER ASSEMBLY          | 1        | Prop    |           |
| SPINNER       | C-2535      | SPINNER ASSEMBLY          | 1        | Prop    | Alcohol   |
| MTG BOLT/STUD | B-1814      | IDS Item                  | 1        | Prop    | Primary   |
| MTG BOLT/STUD | B-1894      | PCP: NUT,SHAFT, 30 SPLINE | 1        | Prop    | Secondary |

### AERO COMMANDER

**Model:** 560-F  
**Trade Name:** AERO COMMANDER  
**Aircraft T.C./STC:** 2A4  
**Propeller Model:** HC-B3Z30-2E(A,B)  
**Propeller T.C.:** P907  
**Blade Model(s):** 9349  
 9349N  
**Prop Diameter:** 93.5"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 15.0 +-0.2  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 26      **Rev.:** 1      **D**      **Date:** 01/07/2011

**Modifier:**  
**Engine Model:** IGO-540-B1A, -B1C  
**Power:** 350 HP @ 2182 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 87.0 +-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:** WOODWARD

#### Hartzell Approved Items:

| Item Type     | Item Number | Description               | Quantity | Qty Per | Comments |
|---------------|-------------|---------------------------|----------|---------|----------|
| BLADE         | 9349        | BLADE UNIT, ALUMINUM      | 3        | Prop    |          |
| BLADE         | 9349N       | PCP:BLADE UNIT, ALUMINUM  | 3        | Prop    |          |
| SPINNER       | C-2504      | SPINNER ASSEMBLY          | 1        | Prop    |          |
| SPINNER       | C-2535      | SPINNER ASSEMBLY          | 1        | Prop    | alcohol  |
| MTG BOLT/STUD | B-1894      | PCP: NUT,SHAFT, 30 SPLINE | 1        | Prop    |          |

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### AERO COMMANDER

**Model:** 560  
**Trade Name:** AERO COMMANDER  
**Aircraft T.C./STC:** STC-SA2-89  
**Propeller Model:** HC-A3X20-2  
**Propeller T.C.:** P913  
**Blade Model(s):** 8433  
                                   8833-2  
**Prop Diameter:** 86.4"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 17.0 +-0.2  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

#### Hartzell Approved Items:

| Item Type | Item Number | Description      | Quantity | Qty Per | Comments |
|-----------|-------------|------------------|----------|---------|----------|
| BLADE     | 8433        | BLADE            | 3        | Prop    |          |
| BLADE     | 8833-2      | IDS ITEM         | 3        | Prop    |          |
| SPINNER   | 835-10S     | SPINNER ASSEMBLY | 1        | Prop    |          |

**IDS No.:** 2336      **Rev.:** -      **DM Date:** 12/18/2003

**Modifier:** RYDER-AVIALL  
**Engine Model:** GO-480-C1D6  
**Power:** 295 HP @ 3400 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 83.0 +-1.0  
**Cwt Angle:** POSITIVE

**Non-HPI Governor:** WOODWARD

### AERO COMMANDER

**Model:** 560  
**Trade Name:** AERO COMMANDER  
**Aircraft T.C./STC:** STC-SA2-89  
**Propeller Model:** HC-A3V20-2  
**Propeller T.C.:** P6EA  
**Blade Model(s):** V8433  
                                   V8433N  
                                   V8833  
                                   V8833N  
**Prop Diameter:** 86.4"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 17.0 +-0.2  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

#### Hartzell Approved Items:

| Item Type | Item Number | Description      | Quantity | Qty Per | Comments |
|-----------|-------------|------------------|----------|---------|----------|
| BLADE     | V8433       | BLADE            | 3        | Prop    |          |
| BLADE     | V8433N      | BLADE            | 3        | Prop    |          |
| BLADE     | V8833       | BLADE UNIT       | 3        | Prop    |          |
| BLADE     | V8833N      | BLADE UNIT       | 3        | Prop    |          |
| SPINNER   | 835-10S     | SPINNER ASSEMBLY | 1        | Prop    |          |

**IDS No.:** 2337      **Rev.:** -      **DM Date:** 12/18/2003

**Modifier:** RYDER-AVIALL  
**Engine Model:** GO-480-C1D6  
**Power:** 295 HP @ 3400 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 83.0 +-1.0  
**Cwt Angle:** POSITIVE

**Non-HPI Governor:** WOODWARD

# HARTZELL

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### AERO COMMANDER

**Model:** 680, 680-E, 720  
**Trade Name:** AERO COMMANDER  
**Aircraft T.C./STC:** 2A4  
**Propeller Model:** HC-83X20-2, HC-A3X20-2  
**Propeller T.C.:** P6EA  
**Blade Model(s):** 9333C  
**Prop Diameter:** 93.6" TO 93"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 17.0 +-0.2  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 2072      **Rev.:** -      **DM Date:** 01/31/2006

**Modifier:**  
**Engine Model:** GSO-480-A1A6, -B1A6  
**Power:** 340 HP @ 2182 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 83.0 +-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:** WOODWARD

#### Hartzell Approved Items:

| Item Type                    | Item Number | Description                | Quantity | Qty Per | Comments        |
|------------------------------|-------------|----------------------------|----------|---------|-----------------|
| BLADE                        | 9333C       | BLADE                      | 3        | Prop    |                 |
| SPINNER                      | 835-10S     | SPINNER ASSEMBLY           | 1        | Prop    |                 |
| SPINNER                      | 836-21SP    | IDS Item                   | 1        | Prop    | w/ De-ice       |
| COUNTERWEIGHT SLUG A-890     |             | PCP:SLUG, COUNTERWEIGHT    | 1        | Blade   |                 |
| COUNTERWEIGHT SLUG B-3384-7H |             | BOLT, 1/4-28, HEX HEAD     | 2        | Blade   |                 |
| DE-ICER                      | C-2131      | BOOT, ANTI-ICING           | 1        | Blade   | Blade Component |
| MTG BOLT/STUD                | A-63B       | PCP: NUT, SHAFT, 20 SPLINE | 1        | Prop    |                 |
| MTG BOLT/STUD                | A-63-B      | NUT,SHAFT,20 SPLINE        | 1        | Prop    |                 |

### AERO COMMANDER

**Model:** 680, 680-E, 720  
**Trade Name:** AERO COMMANDER  
**Aircraft T.C./STC:** 2A4  
**Propeller Model:** HC-A3V20-2  
**Propeller T.C.:** P6EA  
**Blade Model(s):** V9333C  
**Prop Diameter:** 93.6" TO 93"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 17.0 +-0.2  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 2310      **Rev.:** -      **DM Date:** 11/23/2003

**Modifier:**  
**Engine Model:** GSO-480-A1A6, -B1A6  
**Power:** 340 HP @ 2182 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 83.0 +-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:** WOODWARD

#### Hartzell Approved Items:

| Item Type                    | Item Number | Description                | Quantity | Qty Per | Comments        |
|------------------------------|-------------|----------------------------|----------|---------|-----------------|
| BLADE                        | V9333C      | BLADE                      | 3        | Prop    |                 |
| SPINNER                      | 835-10S     | SPINNER ASSEMBLY           | 1        | Prop    |                 |
| SPINNER                      | 836-21SP    | IDS Item                   | 1        | Prop    | w/ De-ice       |
| COUNTERWEIGHT SLUG A-890     |             | PCP:SLUG, COUNTERWEIGHT    | 1        | Blade   |                 |
| COUNTERWEIGHT SLUG B-3384-7H |             | BOLT, 1/4-28, HEX HEAD     | 2        | Blade   |                 |
| DE-ICER                      | C-2131      | BOOT, ANTI-ICING           | 1        | Blade   | Blade Component |
| MTG BOLT/STUD                | A-63B       | PCP: NUT, SHAFT, 20 SPLINE | 1        | Prop    |                 |
| MTG BOLT/STUD                | A-63-B      | NUT,SHAFT,20 SPLINE        | 1        | Prop    |                 |



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### AERO COMMANDER

**Model:** 680, 680-E, 720  
**Trade Name:** AERO COMMANDER  
**Aircraft T.C./STC:** 2A4  
**Propeller Model:** HC-A3MV20-2  
**Propeller T.C.:** P6EA  
**Blade Model(s):** MV9333N\*1  
 MV9333NB  
**Prop Diameter:** 93.6" TO 93"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 17.0 +-0.2  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 29      **Rev.:** 2      **IC Date:** 07/07/2015

**Modifier:**  
**Engine Model:** GSO-480-A1A6, -B1A6  
**Power:** 340 HP @ 2182 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 83.0 +-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:** WOODWARD

#### Hartzell Approved Items:

| <u>Item Type</u>             | <u>Item Number</u> | <u>Description</u>           | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------------------|--------------------|------------------------------|-----------------|----------------|--------------------------|
| PROPELLER                    | A3210067           | HC-A3MV20-2/MV9333N[*1]      | 2               | A/C            |                          |
| BLADE                        | MV9333N*1          | PCP:BLADE UNIT, ALUM [1,3,1] | 3               | Prop           |                          |
| BLADE                        | MV9333NB           | IDS ITEM, BLADE, C-2131 BOOT | 3               | Prop           |                          |
| SPINNER                      | 835-10S            | SPINNER ASSEMBLY             | 1               | Prop           |                          |
| SPINNER                      | 836-21SP           | IDS Item                     | 1               | Prop           | w/ De-ice                |
| COUNTERWEIGHT SLUG A-890     |                    | PCP:SLUG, COUNTERWEIGHT      | 1               | Blade          |                          |
| COUNTERWEIGHT SLUG B-3384-7H |                    | BOLT, 1/4-28, HEX HEAD       | 2               | Blade          |                          |
| DE-ICER                      | C-2131             | BOOT, ANTI-ICING             | 1               | Blade          | Blade Component          |
| MTG BOLT/STUD                | A-63B              | PCP: NUT, SHAFT, 20 SPLINE   | 1               | Prop           |                          |
| MTG BOLT/STUD                | A-63-B             | NUT,SHAFT,20 SPLINE          | 1               | Prop           |                          |
| OVERHAUL KIT                 | HC-A3MV20-2-OH     | O/H KIT                      | 1               | Prop           | For aftermarket use only |

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### AERO COMMANDER

**Model:** 680F, 680FL, 680FLP  
**Trade Name:** AERO COMMANDER  
**Aircraft T.C./STC:** 2A4  
**Propeller Model:** HC-B3Z30-2E(A,B)  
**Propeller T.C.:** P907  
**Blade Model(s):** 9349

9349-6.5  
 9349N  
 9349N-6.5

**Prop Diameter:** 93.5" 9349, 87" 9349-6.5

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 18.0 +/-0.2  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 30      **Rev.:** 2      **D**      **Date:** 07/27/2012

**Modifier:**  
**Engine Model:** IGSO-540-B1A, -B1C  
**Power:** 380 HP @ 2182 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:**  
**Feather/High Angle:** 86.0 +/-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:** WOODWARD

#### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>        | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>  |
|------------------|--------------------|---------------------------|-----------------|----------------|------------------|
| PROPELLER        | B3320050           | HC-B3Z30-2EB/9349N-6.5    | 2               | A/C            |                  |
| PROPELLER        | B3320050KD         | HC-B3Z30-2EB/9349N-6.5    | 2               | A/C            |                  |
| BLADE            | 9349               | BLADE UNIT, ALUMINUM      | 3               | Prop           | 680F, 680FL ONLY |
| BLADE            | 9349-6.5           | BLADE UNIT, ALUMINUM      | 3               | Prop           |                  |
| BLADE            | 9349N              | PCP:BLADE UNIT, ALUMINUM  | 3               | Prop           | 680F, 680FL ONLY |
| BLADE            | 9349N-6.5          | PCP:BLADE UNIT, ALUMINUM  | 3               | Prop           |                  |
| SPINNER          | C-2504             | SPINNER ASSEMBLY          | 1               | Prop           |                  |
| SPINNER          | C-2535             | SPINNER ASSEMBLY          | 1               | Prop           | al, 680F only    |
| MTG BOLT/STUD    | B-1894             | PCP: NUT,SHAFT, 30 SPLINE | 1               | Prop           |                  |

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### AERO COMMANDER

**Model:** 680, 680E, 720  
**Trade Name:** AERO COMMANDER  
**Aircraft T.C./STC:** SA00770SE  
**Propeller Model:** HC-B3Z20-2A  
**Propeller T.C.:** P-907  
**Blade Model(s):** 10151-8R  
 10151B-8R  
 10151N-8R  
 10151NB-8R  
**Prop Diameter:** 93" TO 90"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 16.0 +-0.2  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 1747      **Rev.:** 1      **D**      **Date:** 01/10/2011

**Modifier:** James R. Metzger  
**Engine Model:** IGSO-480-A1A6, -B1A6  
**Power:** 340 HP @ 2182 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 87.0 +-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:** WOODWARD

#### Hartzell Approved Items:

| <u>Item Type</u>            | <u>Item Number</u> | <u>Description</u>             | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|-----------------------------|--------------------|--------------------------------|-----------------|----------------|--------------------------|
| BLADE                       | 10151-8R           | BLADE UNIT, ALUMINUM           | 3               | Prop           |                          |
| BLADE                       | 10151B-8R          | BLADE UNIT, ALUMINUM, 4H1188-3 | 3               | Prop           |                          |
| BLADE                       | 10151N-8R          | PCP:BLADE UNIT, ALUMINUM       | 3               | Prop           |                          |
| BLADE                       | 10151NB-8R         | PCP:BLADE UNIT, ALUM 4H1188-3  | 3               | Prop           |                          |
| COUNTERWEIGHT SLUG A-619-2  |                    | SLUG, COUNTERWEIGHT            | 2               | Blade          |                          |
| COUNTERWEIGHT SLUG B-3840-8 |                    | SCREW, 10-32, FILLISTER HEAD   | 2               | Blade          |                          |
| DE-ICER                     | 4H1188-3           | DE-ICE BOOT                    | 1               | Blade          | Supersedes 7931-4E1188-3 |
| MTG BOLT/STUD               | A-63B              | PCP: NUT, SHAFT, 20 SPLINE     | 1               | Prop           |                          |
| MTG BOLT/STUD               | A-63-B             | NUT,SHAFT,20 SPLINE            | 1               | Prop           |                          |

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### AERO COMMANDER

**Model:** 680, 680E  
**Trade Name:** AERO COMMANDER  
**Aircraft T.C./STC:** STC-SA439WE  
**Propeller Model:** HC-83X20-2, HC-A3X20-2  
**Propeller T.C.:** P6EA  
**Blade Model(s):** 9333C  
**Prop Diameter:** 93.6"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 17.0 +/-0.2  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 2074      **Rev.:** -      **DM Date:** 01/31/2006

**Modifier:** WESTERN COMMANDER  
**Engine Model:** IGSO-480-A1D6  
**Power:** 340 HP @ 2182 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 85.0 +/-1.0  
**Cwt Angle:** Positive

**Non-HPI Governor:** WOODWARD

#### Hartzell Approved Items:

| <u>Item Type</u>             | <u>Item Number</u> | <u>Description</u>         | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------------------|--------------------|----------------------------|-----------------|----------------|-----------------|
| BLADE                        | 9333C              | BLADE                      | 3               | Prop           |                 |
| SPINNER                      | 836-22S            | SPINNER ASSEMBLY           | 1               | Prop           |                 |
| COUNTERWEIGHT SLUG A-890     |                    | PCP:SLUG, COUNTERWEIGHT    | 1               | Blade          |                 |
| COUNTERWEIGHT SLUG B-3384-7H |                    | BOLT, 1/4-28, HEX HEAD     | 2               | Blade          |                 |
| MTG BOLT/STUD                | A-63B              | PCP: NUT, SHAFT, 20 SPLINE | 1               | Prop           |                 |
| MTG BOLT/STUD                | A-63-B             | NUT,SHAFT,20 SPLINE        | 1               | Prop           |                 |

### AERO COMMANDER

**Model:** 80, 680E  
**Trade Name:** AERO COMMANDER  
**Aircraft T.C./STC:** STC-SA439WE  
**Propeller Model:** HC-A3X20-2  
**Propeller T.C.:** P913  
**Blade Model(s):** 9333C  
**Prop Diameter:** 93.6"

#### Prop Setup:

**Ref. Radius:**  
**Reverse Angle:**  
**Low Pitch Angle:**  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 2338      **Rev.:** -      **DM Date:** 12/18/2003

**Modifier:** WESTERN COM.  
**Engine Model:** IGSO-480-A1D6  
**Power:** 340 HP @ 3400 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:**  
**Feather/High Angle:**  
**Cwt Angle:**

**Non-HPI Governor:** WOODWARD

#### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u> | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|--------------------|-----------------|----------------|-----------------|
| BLADE            | 9333C              | BLADE              | 3               | Prop           |                 |
| SPINNER          | 836-22S            | SPINNER ASSEMBLY   | 1               | Prop           |                 |

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### AERO COMMANDER

**Model:** 680, 680E  
**Trade Name:** AERO COMMANDER  
**Aircraft T.C./STC:** STC-SA439WE  
**Propeller Model:** HC-83V20-2, HC-A3V20-2  
**Propeller T.C.:** P6EA  
**Blade Model(s):** V9333C  
**Prop Diameter:** 93.6"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 17.0 +-0.2  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 2075      **Rev.:** -      **DM Date:** 12/19/2003

**Modifier:** WESTERN COMMANDER  
**Engine Model:** IGSO-480-A1D6  
**Power:** 340 HP @ 2182 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 85.0 +-1.0  
**Cwt Angle:** Positive

**Non-HPI Governor:** WOODWARD

#### Hartzell Approved Items:

| Item Type                    | Item Number | Description                | Quantity | Qty Per | Comments |
|------------------------------|-------------|----------------------------|----------|---------|----------|
| BLADE                        | V9333C      | BLADE                      | 3        | Prop    |          |
| SPINNER                      | 836-22S     | SPINNER ASSEMBLY           | 1        | Prop    |          |
| COUNTERWEIGHT SLUG A-890     |             | PCP:SLUG, COUNTERWEIGHT    | 1        | Blade   |          |
| COUNTERWEIGHT SLUG B-3384-7H |             | BOLT, 1/4-28, HEX HEAD     | 2        | Blade   |          |
| MTG BOLT/STUD                | A-63B       | PCP: NUT, SHAFT, 20 SPLINE | 1        | Prop    |          |
| MTG BOLT/STUD                | A-63-B      | NUT,SHAFT,20 SPLINE        | 1        | Prop    |          |

### AERO COMMANDER

**Model:** 680, 680E  
**Trade Name:** AERO COMMANDER  
**Aircraft T.C./STC:** STC-SA439WE  
**Propeller Model:** HC-A3MV20-2  
**Propeller T.C.:** P6EA  
**Blade Model(s):** MV9333N\*1  
**Prop Diameter:** 93.6"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 17.0 +-0.2  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 33      **Rev.:** 1      **D Date:** 01/07/2011

**Modifier:** WESTERN COMMANDER  
**Engine Model:** IGSO-480-A1D6  
**Power:** 340 HP @ 2182 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 85.0 +-1.0  
**Cwt Angle:** Positive

**Non-HPI Governor:** WOODWARD

#### Hartzell Approved Items:

| Item Type                    | Item Number | Description                  | Quantity | Qty Per | Comments |
|------------------------------|-------------|------------------------------|----------|---------|----------|
| BLADE                        | MV9333N*1   | PCP:BLADE UNIT, ALUM [1,3,1] | 3        | Prop    |          |
| SPINNER                      | 836-22S     | SPINNER ASSEMBLY             | 1        | Prop    |          |
| COUNTERWEIGHT SLUG A-890     |             | PCP:SLUG, COUNTERWEIGHT      | 1        | Blade   |          |
| COUNTERWEIGHT SLUG B-3384-7H |             | BOLT, 1/4-28, HEX HEAD       | 2        | Blade   |          |
| MTG BOLT/STUD                | A-63B       | PCP: NUT, SHAFT, 20 SPLINE   | 1        | Prop    |          |
| MTG BOLT/STUD                | A-63-B      | NUT,SHAFT,20 SPLINE          | 1        | Prop    |          |

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### AERO COMMANDER

**Model:** 680F  
**Trade Name:** AERO COMMANDER  
**Aircraft T.C./STC:** STC-SA2691WE  
**Propeller Model:** HC-A3XK-2A  
**Propeller T.C.:** P6EA  
**Blade Model(s):** 8433  
**Prop Diameter:** 84.6"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.0 +-0.1  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 2070      **Rev.:** -      **DM Date:** 11/20/2003

**Modifier:** MR. RPM  
**Engine Model:** IO-720-B1B(D)  
**Power:** 400 HP @ 2650 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 82.0 +-1.0  
**Cwt Angle:** Positive

**Non-HPI Governor:**

#### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>            | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|-------------------------------|-----------------|----------------|-----------------|
| BLADE            | 8433               | BLADE                         | 3               | Prop           |                 |
| SPINNER          | C-2513-2P          | SPINNER ASSEMBLY              | 1               | Prop           |                 |
| MTG BOLT/STUD    | A-1328             | BOLT,MOUNTING,1/2-20,12 POINT | 3               | Prop           |                 |
| MTG BOLT/STUD    | A-1333-3           | BOLT,MOUNTING,1/2-20,HEX HEAD | 3               | Prop           |                 |

### AERO COMMANDER

**Model:** 680F  
**Trade Name:** AERO COMMANDER  
**Aircraft T.C./STC:** STC-SA2691WE  
**Propeller Model:** HC-A3VK-2A  
**Propeller T.C.:** P6EA  
**Blade Model(s):** V8433  
V8433N  
V8433NB-6Q  
**Prop Diameter:** 84.6"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.0 +-0.1  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 2071      **Rev.:** -      **DM Date:** 11/20/2003

**Modifier:** MR. RPM  
**Engine Model:** IO-720-B1B(D)  
**Power:** 400 HP @ 2650 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 82.0 +-1.0  
**Cwt Angle:** Positive

**Non-HPI Governor:**

#### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>            | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|-------------------------------|-----------------|----------------|-----------------|
| BLADE            | V8433              | BLADE                         | 3               | Prop           |                 |
| BLADE            | V8433N             | BLADE                         | 3               | Prop           |                 |
| BLADE            | V8433NB-6Q         | BLADE                         | 3               | Prop           |                 |
| SPINNER          | C-2513-2P          | SPINNER ASSEMBLY              | 1               | Prop           |                 |
| MTG BOLT/STUD    | A-1328             | BOLT,MOUNTING,1/2-20,12 POINT | 3               | Prop           |                 |
| MTG BOLT/STUD    | A-1333-3           | BOLT,MOUNTING,1/2-20,HEX HEAD | 3               | Prop           |                 |

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### AERO COMMANDER

**Model:** 680F  
**Trade Name:** AERO COMMANDER  
**Aircraft T.C./STC:** STC-SA2691WE  
**Propeller Model:** HC-A3MVK-2A  
**Propeller T.C.:** P6EA  
**Blade Model(s):** MV8433N\*1  
**Prop Diameter:** 84.6"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.0 +-0.1  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

#### Hartzell Approved Items:

| Item Type     | Item Number    | Description                   | Quantity | Qty Per | Comments                 |
|---------------|----------------|-------------------------------|----------|---------|--------------------------|
| PROPELLER     | A3K10076       | HC-A3MVK-2A/MV8433N[*1]       | 2        | A/C     |                          |
| BLADE         | MV8433N*1      | PCP:BLADE UNIT, ALUM [1,3,1]  | 3        | Prop    |                          |
| SPINNER       | C-2513-2P      | SPINNER ASSEMBLY              | 1        | Prop    |                          |
| MTG BOLT/STUD | A-1328         | BOLT,MOUNTING,1/2-20,12 POINT | 3        | Prop    |                          |
| MTG BOLT/STUD | A-1333-3       | BOLT,MOUNTING,1/2-20,HEX HEAD | 3        | Prop    |                          |
| OVERHAUL KIT  | HC-A3MVK-2A-OH | O/H KIT                       | 1        | Prop    | For aftermarket use only |

**IDS No.:** 28      **Rev.:** 2      **IC Date:** 07/07/2015

**Modifier:** MR. RPM  
**Engine Model:** IO-720-B1B(D)  
**Power:** 400 HP @ 2650 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 82.0 +-1.0  
**Cwt Angle:** Positive

**Non-HPI Governor:**

### AERO COMMANDER

**Model:** 680FL(P)  
**Trade Name:** AERO COMMANDER  
**Aircraft T.C./STC:** STC-SA2891WE  
**Propeller Model:** HC-A3VK-2A  
**Propeller T.C.:** P6EA  
**Blade Model(s):**  
**Prop Diameter:** 84.6"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.0 +-0.1  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

#### Hartzell Approved Items:

| Item Type     | Item Number   | Description                   | Quantity | Qty Per | Comments |
|---------------|---------------|-------------------------------|----------|---------|----------|
| SPINNER       | C-2513-2P     | SPINNER ASSEMBLY              | 1        | Prop    |          |
| DE-ICE KIT PR | 7931-65-410-1 | DE-ICE KIT (ONE PROP)         | 1        | Prop    |          |
| MTG BOLT/STUD | A-1328        | BOLT,MOUNTING,1/2-20,12 POINT | 3        | Prop    |          |
| MTG BOLT/STUD | A-1333-3      | BOLT,MOUNTING,1/2-20,HEX HEAD | 3        | Prop    |          |

**IDS No.:** 2073      **Rev.:** -      **DM Date:** 11/20/2003

**Modifier:** MR. RPM  
**Engine Model:** IO-720-B1B(D)  
**Power:** 400 HP @ 2650 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 82.0 +-1.0  
**Cwt Angle:** Positive

**Non-HPI Governor:**

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### AERO COMMANDER

**Model:** 680FL(P)  
**Trade Name:** AERO COMMANDER  
**Aircraft T.C./STC:** STC-SA2891WE  
**Propeller Model:** HC-A3MVK-2A  
**Propeller T.C.:** P6EA  
**Blade Model(s):** MV8433N\*1  
**Prop Diameter:** 84.6"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.0 +-0.1  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

#### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>            | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|-------------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | A3K10075           | HC-A3MVK-2A/MV8433N[*1]       | 2               | A/C            |                          |
| BLADE            | MV8433N*1          | PCP:BLADE UNIT, ALUM [1,3,1]  | 3               | Prop           |                          |
| SPINNER          | C-2513-2P          | SPINNER ASSEMBLY              | 1               | Prop           |                          |
| DE-ICE KIT PR    | 7931-65-410-1      | DE-ICE KIT (ONE PROP)         | 1               | Prop           |                          |
| MTG BOLT/STUD    | A-1328             | BOLT,MOUNTING,1/2-20,12 POINT | 3               | Prop           |                          |
| MTG BOLT/STUD    | A-1333-3           | BOLT,MOUNTING,1/2-20,HEX HEAD | 3               | Prop           |                          |
| OVERHAUL KIT     | HC-A3MVK-2A-OH     | O/H KIT                       | 1               | Prop           | For aftermarket use only |

**IDS No.:** 32      **Rev.:** 3      **IC Date:** 07/07/2015

**Modifier:** MR. RPM  
**Engine Model:** IO-720-B1B(D)  
**Power:** 400 HP @ 2650 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 82.0 +-1.0  
**Cwt Angle:** Positive

**Non-HPI Governor:**



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### AERO COMMANDER

**Model:** 680T, 680V, 681  
**Trade Name:** AERO COMMANDER  
**Aircraft T.C./STC:** STC-SA924NW/1184NW  
**Propeller Model:** HC-B3TN-5K  
**Propeller T.C.:** P15EA  
**Blade Model(s):** T10178B-13Q  
 T10178NB-13Q  
**Prop Diameter:** 88.5"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** -9.0 +-1.0  
**Low Pitch Angle:**  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 31      **Rev.:** 4      **IC Date:** 01/27/2020

**Modifier:** AERO AIR  
**Engine Model:** TPE331-43B, -43L  
**Power:** 575 HP @ 2000 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** 2.5 +-0.1  
**Feather/High Angle:** 87.0 +-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:**

#### Hartzell Approved Items:

| <u>Item Type</u>               | <u>Item Number</u> | <u>Description</u>                | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>           |
|--------------------------------|--------------------|-----------------------------------|-----------------|----------------|---------------------------|
| PROPELLER                      | B3N10775           | HC-B3TN-5K/T10178NB-13Q           | 2               | A/C            |                           |
| PROPELLER                      | B3N10776           | HC-B3TN-5K/T10178NB-13Q/BULK      | 2               | A/C            |                           |
| BLADE                          | T10178B-13Q        | BLADE, 4E1188-10 BOOT             | 3               | Prop           |                           |
| BLADE                          | T10178NB-13Q       | PCP:BLADE UNIT, ALUMINUM          | 3               | Prop           |                           |
| SPINNER                        | 836-61             | SPINNER ASSEMBLY                  | 1               | Prop           |                           |
| COUNTERWEIGHT SLUG A-2038-4    |                    | SCREW, 1/4-28, CAP                | 2               | Blade          |                           |
| COUNTERWEIGHT SLUG A-3039      |                    | SLUG, COUNTERWEIGHT               | 1               | Blade          |                           |
| COUNTERWEIGHT SLUG B-3386-14H  |                    | BOLT, 3/8-24, HEX HEAD            | 2               | Blade          |                           |
| COUNTERWEIGHT SLUG B-3663-1    |                    | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          |                           |
| COUNTERWEIGHT SLUG B-3834-0632 |                    | WASHER                            | 2               | Blade          |                           |
| DE-ICER                        | 4H1188-10          | DE-ICE BOOT                       | 1               | Blade          | Supersedes 7931-4E1188-10 |
| DE-ICER                        | 7931-4E1188-10     | PROP DE-ICER                      | 1               | Blade          | Superseded by 4H1188-10   |
| DE-ICE KIT PR                  | 7931-65-410-1      | DE-ICE KIT (ONE PROP)             | 1               | Prop           |                           |
| MTG BOLT/STUD                  | B-3339             | BOLT, MOUNTING, 9/16-18, 12 POINT | 8               | Prop           |                           |

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### AERO COMMANDER

**Model:** 680F  
**Trade Name:** AERO COMMANDER  
**Aircraft T.C./STC:** Experimental  
**Propeller Model:** HC-A3MVK-2A  
**Propeller T.C.:** P6EA  
**Blade Model(s):** MV8433NB-6Q  
**Prop Diameter:** 78.625"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 14.0 +-0.1  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

#### Hartzell Approved Items:

| Item Type     | Item Number | Description                   | Quantity | Qty Per | Comments |
|---------------|-------------|-------------------------------|----------|---------|----------|
| BLADE         | MV8433NB-6Q | PCP:BLADE UNIT, ALUMINUM      | 3        | Prop    |          |
| MTG BOLT/STUD | A-1328      | BOLT,MOUNTING,1/2-20,12 POINT | 3        | Prop    |          |
| MTG BOLT/STUD | A-1333-3    | BOLT,MOUNTING,1/2-20,HEX HEAD | 3        | Prop    |          |

**IDS No.:** 34      **Rev.:** 1      **D**      **Date:** 01/07/2011

**Modifier:** PICKETT AVIATION  
**Engine Model:** IO-720-B1B  
**Power:** 400 HP @ 2650 RPM  
**Placard/Restr:**  
**Notes:** Field approval of Q tip conversion of propeller on a Mr. RPM STC

**Startlock Angle:** NA  
**Feather/High Angle:** 81.4 +-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:**

### AERO COMMANDER

**Model:** 685  
**Trade Name:** AERO COMMANDER  
**Aircraft T.C./STC:** 2A4  
**Propeller Model:** HC-H3YN-2(U)(F)  
**Propeller T.C.:** P35EA  
**Blade Model(s):** FC8475+2  
 FC8475B+2  
**Prop Diameter:** 88" TO 87"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 18.1 +-0.2  
**Stud Protrusion** 1.580 +-0.030

#### Non-HPI Items:

**Non-HPI Spinner:**

#### Hartzell Approved Items:

| Item Type     | Item Number | Description              | Quantity | Qty Per | Comments                 |
|---------------|-------------|--------------------------|----------|---------|--------------------------|
| PROPELLER     | H3N00026    | HC-H3YN-2UF/FC8475+2     | 2        | A/C     |                          |
| BLADE         | FC8475+2    | PCP:BLADE UNIT, ALUMINUM | 3        | Prop    |                          |
| BLADE         | FC8475B+2   | BLADE UNIT, ALUMINUM     | 3        | Prop    |                          |
| SPINNER       | D-3273-1    | SPINNER ASSEMBLY         | 1        | Prop    |                          |
| COUNTERWEIGHT | B-3202H-1   | PCP:COUNTERWEIGHT        | 1        | Blade   | Blade Component          |
| DE-ICER       | 4H1601-7    | DE-ICE BOOT              | 1        | Blade   | Supersedes 7931-4E1601-7 |
| MTG BOLT/STUD | A-3254      | STUD, MOUNTING, 9/16-18  | 8        | Prop    |                          |

**IDS No.:** 35      **Rev.:** 1      **IC**      **Date:** 11/07/2016

**Modifier:**  
**Engine Model:** GTSIO-520-F, -K  
**Power:** 435 HP @ 2267 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** 23.6 +-1.5  
**Feather/High Angle:** 83.5 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:** WOODWARD

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### AERO COMMANDER

**Model:** 690, A, B  
**Trade Name:** TURBO COMMANDER  
**Aircraft T.C./STC:** 2A4  
**Propeller Model:** HC-B3TN-5DL, FL, NL  
**Propeller T.C.:** P15EA  
**Blade Model(s):** LT10282+4  
 LT10282A+4  
 LT10282AB+4  
 LT10282B+4\*1  
 LT10282NB+4\*1

**Prop Diameter:** 106.5" TO 105.0"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** -8.0 +-0.5  
**Low Pitch Angle:** 13.5 +-0.2  
**Stud Protrusion**

**IDS No.:** 36      **Rev.:** 2      **IC Date:** 01/27/2020

**Modifier:**  
**Engine Model:** TPE331-5-251K, -252K  
**Power:** 840 HP @ 1591 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** 2.5 +-0.2  
**Feather/High Angle:** 90.0 +-0.5  
**Cwt Angle:** Positive

#### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:**

#### Hartzell Approved Items:

| <u>Item Type</u>               | <u>Item Number</u> | <u>Description</u>                | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|--------------------------------|--------------------|-----------------------------------|-----------------|----------------|--------------------------|
| BLADE                          | LT10282+4          | BLADE                             | 3               | Prop           | SUPERSEDED BY LT10282N+4 |
| BLADE                          | LT10282A+4         | IDS ITEM, BLADE                   | 3               | Prop           |                          |
| BLADE                          | LT10282AB+4        | IDS ITEM, BLADE, 4E1601-5 BOOT    | 3               | Prop           |                          |
| BLADE                          | LT10282B+4*1       | IDS ITEM, BLADE, 4E1601-5 BOOT    | 3               | Prop           |                          |
| BLADE                          | LT10282NB+4*1      | LT10282N+4, 4E1601-5 @ 1.063"     | 3               | Prop           |                          |
| SPINNER                        | 836-57P            | SPINNER ASSEMBLY                  | 1               | Prop           |                          |
| COUNTERWEIGHT SLUG A-2038-4    |                    | SCREW, 1/4-28, CAP                | 2               | Blade          |                          |
| COUNTERWEIGHT SLUG A-3039      |                    | SLUG, COUNTERWEIGHT               | 1               | Blade          |                          |
| COUNTERWEIGHT SLUG B-3386-14H  |                    | BOLT, 3/8-24, HEX HEAD            | 2               | Blade          |                          |
| COUNTERWEIGHT SLUG B-3663      |                    | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          |                          |
| COUNTERWEIGHT SLUG B-3834-0632 |                    | WASHER                            | 2               | Blade          |                          |
| DE-ICER                        | 4H1601-5           | DE-ICE BOOT                       | 1               | Blade          | Supersedes 7931-4E1601-5 |
| DE-ICE KIT PR                  | 7931-77-025-1      | DE-ICE KIT (ONE PROP)             | 1               | Prop           |                          |
| MTG BOLT/STUD                  | B-3339             | BOLT, MOUNTING, 9/16-18, 12 POINT | 8               | Prop           |                          |

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### AERO COMMANDER

**Model:** 690, 690A, 690B  
**Trade Name:** TURBO COMMANDER  
**Aircraft T.C./STC:** STC-SA546GL  
**Propeller Model:** HC-B3TN-5DL, -5FL, -5NL  
**Propeller T.C.:** P15EA  
**Blade Model(s):** LT10673B  
 LT10673NB  
**Prop Diameter:** 106.0" TO 105.0"

**IDS No.:** 39      **Rev.:** 3      **IC Date:** 01/27/2020

**Modifier:** GULFSTREAM AMERICAN  
**Engine Model:** TPE331-5-251K  
**Power:** 840 HP @ 1591 RPM  
**Placard/Restr:**  
**Notes:**

#### Prop Setup:

**Ref. Radius:** 42  
**Reverse Angle:** -14.0 +0.5  
**Low Pitch Angle:** NA  
**Stud Protrusion**

**Startlock Angle:** -8.7 +-0.5  
**Feather/High Angle:** 77.9 +-0.5  
**Cwt Angle:** 8.5 +-1.5

#### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:**

#### Hartzell Approved Items:

| <u>Item Type</u>               | <u>Item Number</u> | <u>Description</u>                | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|--------------------------------|--------------------|-----------------------------------|-----------------|----------------|--------------------------|
| PROPELLER                      | B3N11300           | HC-B3TN-5NL/LT10673NB             | 0               |                |                          |
| BLADE                          | LT10673B           | BLADE, 4E1601-5 BOOT              | 3               | Prop           |                          |
| BLADE                          | LT10673NB          | PCP:BLADE UNIT, ALUMINUM          | 3               | Prop           |                          |
| SPINNER                        | 836-57P            | SPINNER ASSEMBLY                  | 1               | Prop           |                          |
| COUNTERWEIGHT SLUG A-2038-4    |                    | SCREW, 1/4-28, CAP                | 2               | Blade          |                          |
| COUNTERWEIGHT SLUG A-3039      |                    | SLUG, COUNTERWEIGHT               | 1               | Blade          |                          |
| COUNTERWEIGHT SLUG B-3386-14H  |                    | BOLT, 3/8-24, HEX HEAD            | 2               | Blade          |                          |
| COUNTERWEIGHT SLUG B-3663      |                    | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          |                          |
| COUNTERWEIGHT SLUG B-3834-0632 |                    | WASHER                            | 2               | Blade          |                          |
| DE-ICER                        | 4H1601-5           | DE-ICE BOOT                       | 1               | Blade          | Supersedes 7931-4E1601-5 |
| DE-ICE KIT PR                  | 7931-77-025-1      | DE-ICE KIT (ONE PROP)             | 1               | Prop           |                          |
| MTG BOLT/STUD                  | B-3339             | BOLT, MOUNTING, 9/16-18, 12 POINT | 8               | Prop           |                          |
| OVERHAUL KIT                   | HC-B3TN-5NL-OH     | O/H KIT                           | 1               | Prop           | For aftermarket use only |

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### AERO COMMANDER

**Model:** 690, 690A, 690B, 690C  
**Trade Name:** TURBO COMMANDER  
**Aircraft T.C./STC:** STC-SA1464NM  
**Propeller Model:** HC-B3TN-5FL  
**Propeller T.C.:** P15EA  
**Blade Model(s):** LT10673-2Q  
 LT10673B-2Q  
 LT10673N-2Q  
 LT10673NB-2Q

**Prop Diameter:** 104"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** -8.0 +-0.5  
**Low Pitch Angle:** 13.5 +-0.2  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

#### Hartzell Approved Items:

**IDS No.:** 37      **Rev.:** 2      **IC Date:** 01/27/2020

**Modifier:** AERO AIR  
**Engine Model:** TPE331-5-254K  
**Power:** 715 HP @ 1591 RPM  
**Placard/Restr:**

**Notes:** Inactive for new production - See IDS #2789

**Startlock Angle:** 2.5 +-0.2  
**Feather/High Angle:** 90.0 +-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:**

| <u>Item Type</u>               | <u>Item Number</u> | <u>Description</u>                | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|--------------------------------|--------------------|-----------------------------------|-----------------|----------------|--------------------------|
| BLADE                          | LT10673-2Q         | BLADE                             | 3               | Prop           |                          |
| BLADE                          | LT10673B-2Q        | BLADE, 4E1601-5 BOOT              | 3               | Prop           |                          |
| BLADE                          | LT10673N-2Q        | PCP:BLADE UNIT, ALUMINUM          | 3               | Prop           |                          |
| BLADE                          | LT10673NB-2Q       | PCP:BLADE UNIT, ALUMINUM          | 3               | Prop           |                          |
| SPINNER                        | 836-57P            | SPINNER ASSEMBLY                  | 1               | Prop           |                          |
| SPINNER                        | D-7330P            | SPINNER ASSEMBLY                  | 1               | Prop           |                          |
| COUNTERWEIGHT SLUG A-2038-4    |                    | SCREW, 1/4-28, CAP                | 2               | Blade          |                          |
| COUNTERWEIGHT SLUG A-3039      |                    | SLUG, COUNTERWEIGHT               | 1               | Blade          |                          |
| COUNTERWEIGHT SLUG B-3386-14H  |                    | BOLT,3/8-24,HEX HEAD              | 2               | Blade          |                          |
| COUNTERWEIGHT SLUG B-3663      |                    | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          |                          |
| COUNTERWEIGHT SLUG B-3834-0632 |                    | WASHER                            | 2               | Blade          |                          |
| DE-ICER                        | 4H1601-5           | DE-ICE BOOT                       | 1               | Blade          | Supersedes 7931-4E1601-5 |
| DE-ICE KIT PR                  | 7931-77-025-1      | DE-ICE KIT (ONE PROP)             | 1               | Prop           |                          |
| MTG BOLT/STUD                  | B-3339             | BOLT, MOUNTING, 9/16-18, 12 POINT | 8               | Prop           |                          |

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### AERO COMMANDER

**Model:** 690, 690A, 690B  
**Trade Name:** TURBO COMMANDER  
**Aircraft T.C./STC:** STC-SA1464NM  
**Propeller Model:** HC-B3TN-5FL  
**Propeller T.C.:** P15EA  
**Blade Model(s):** LT10673-2Q  
 LT10673B-2Q  
 LT10673N-2Q  
 LT10673NB-2Q

**Prop Diameter:** 104.0"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** -8.0 +-0.5  
**Low Pitch Angle:** NA  
**Stud Protrusion**

**IDS No.:** 1362      **Rev.:** 2      **IC Date:** 01/27/2020

**Modifier:** AERO AIR  
**Engine Model:** TPE331-10T-512K, -515K, -516K  
**Power:** 717 HP @ 1607 RPM  
**Placard/Restr:**

**Notes:** Inactive for new production - See IDS #2789.

**Startlock Angle:** 2.5 +-0.2  
**Feather/High Angle:** 90.0 +-0.5  
**Cwt Angle:** Positive

#### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:**

#### Hartzell Approved Items:

| <u>Item Type</u>               | <u>Item Number</u> | <u>Description</u>                | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|--------------------------------|--------------------|-----------------------------------|-----------------|----------------|--------------------------|
| PROPELLER                      | B3N15000           | HC-B3TN-5FL/LT10673N-2Q           | 2               | A/C            |                          |
| BLADE                          | LT10673-2Q         | BLADE                             | 3               | Prop           |                          |
| BLADE                          | LT10673B-2Q        | BLADE, 4E1601-5 BOOT              | 3               | Prop           |                          |
| BLADE                          | LT10673N-2Q        | PCP:BLADE UNIT, ALUMINUM          | 3               | Prop           |                          |
| BLADE                          | LT10673NB-2Q       | PCP:BLADE UNIT, ALUMINUM          | 3               | Prop           |                          |
| SPINNER                        | 836-57P            | SPINNER ASSEMBLY                  | 3               | Prop           |                          |
| SPINNER                        | D-7330P            | SPINNER ASSEMBLY                  | 3               | Prop           |                          |
| COUNTERWEIGHT SLUG A-2038-4    |                    | SCREW, 1/4-28, CAP                | 2               | Blade          |                          |
| COUNTERWEIGHT SLUG A-3039      |                    | SLUG, COUNTERWEIGHT               | 1               | Blade          |                          |
| COUNTERWEIGHT SLUG B-3386-14H  |                    | BOLT, 3/8-24, HEX HEAD            | 2               | Blade          |                          |
| COUNTERWEIGHT SLUG B-3663      |                    | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          |                          |
| COUNTERWEIGHT SLUG B-3834-0632 |                    | WASHER                            | 2               | Blade          |                          |
| DE-ICER                        | 4H1601-5           | DE-ICE BOOT                       | 1               | Blade          | Supersedes 7931-4E1601-5 |
| DE-ICE KIT PR                  | 7931-77-025-1      | DE-ICE KIT (ONE PROP)             | 1               | Prop           |                          |
| MTG BOLT/STUD                  | B-3339             | BOLT, MOUNTING, 9/16-18, 12 POINT | 8               | Prop           |                          |

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### AERO COMMANDER

**Model:** 695, 695A, 695B, 690D  
**Trade Name:** TURBO COMMANDER  
**Aircraft T.C./STC:** STC-SA2380NM  
**Propeller Model:** HC-B3TN-5FL, -5NL  
**Propeller T.C.:** P15EA  
**Blade Model(s):** LT10876ANS-2Q  
 LT10876ANSB-2I  
 LT10876AS-2Q  
 LT10876ASB-2Q

**Prop Diameter:** 106.5" NO CUT OFF

#### Prop Setup:

**Ref. Radius:** 42  
**Reverse Angle:** -18.0 +/-0.5  
**Low Pitch Angle:** 4.0 +/-0.5 F.I.  
**Stud Protrusion**

**IDS No.:** 40      **Rev.:** 4      **IC Date:** 01/27/2020

**Modifier:** AERO AIR  
**Engine Model:** TPE331-10-501K, -511K  
**Power:** 820 HP @ 1591 RPM  
**Placard/Restr:**  
**Notes:** B3N11410S uses D7330P Spinner

**Startlock Angle:** -6.0 +/-0.2  
**Feather/High Angle:** 80.0 +/-0.5  
**Cwt Angle:** Positive

#### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:**

#### Hartzell Approved Items:

| Item Type                      | Item Number    | Description                       | Quantity | Qty Per | Comments                 |
|--------------------------------|----------------|-----------------------------------|----------|---------|--------------------------|
| PROPELLER                      | B3N11400       | HC-B3TN-5NL/LT10876ANSB-2Q        | 0        |         |                          |
| PROPELLER                      | B3N11400S      | B3TN-5NL/LT10876ANSB2Q/836-57P    | 0        |         |                          |
| PROPELLER                      | B3N11410S      | B3TN-5NL/LT10876ANSB2Q/D-7330P    | 0        |         |                          |
| PROPELLER                      | B3N11410SKD    | B3TN-5NL/LT10876ANSB2Q/D-7330P    | 0        |         |                          |
| BLADE                          | LT10876ANS-2Q  | PCP:BLADE UNIT, ALUMINUM          | 3        | Prop    |                          |
| BLADE                          | LT10876ANSB-2Q | PCP:BLADE UNIT, ALUMINUM          | 3        | Prop    |                          |
| BLADE                          | LT10876AS-2Q   | BLADE                             | 3        | Prop    |                          |
| BLADE                          | LT10876ASB-2Q  | BLADE                             | 3        | Prop    |                          |
| SPINNER                        | 836-57P        | SPINNER ASSEMBLY                  | 1        | Prop    |                          |
| SPINNER                        | D-7330P        | SPINNER ASSEMBLY                  | 1        | Prop    |                          |
| COUNTERWEIGHT SLUG A-2038-4    |                | SCREW, 1/4-28, CAP                | 2        | Blade   |                          |
| COUNTERWEIGHT SLUG A-3039      |                | SLUG, COUNTERWEIGHT               | 1        | Blade   |                          |
| COUNTERWEIGHT SLUG B-3386-14H  |                | BOLT, 3/8-24, HEX HEAD            | 2        | Blade   |                          |
| COUNTERWEIGHT SLUG B-3663      |                | PCP:SLUG, COUNTERWEIGHT           | 1        | Blade   |                          |
| COUNTERWEIGHT SLUG B-3834-0632 |                | WASHER                            | 2        | Blade   |                          |
| DE-ICER                        | 4H1601-5       | DE-ICE BOOT                       | 1        | Blade   | Supersedes 7931-4E1601-5 |
| DE-ICE KIT PR                  | 7931-77-025-1  | DE-ICE KIT (ONE PROP)             | 1        | Prop    |                          |
| MTG BOLT/STUD                  | B-3339         | BOLT, MOUNTING, 9/16-18, 12 POINT | 8        | Prop    |                          |
| OVERHAUL KIT                   | HC-B3TN-5NL-OH | O/H KIT                           | 1        | Prop    | For aftermarket use only |

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### AERO COMMANDER (CALLAIR)

**Model:** B1 (CALLAIR)  
**Trade Name:**  
**Aircraft T.C./STC:** A7WE, A8WE  
**Propeller Model:** HC-A3VK-4  
**Propeller T.C.:** P6EA  
**Blade Model(s):** V8433-4  
V8433N-4  
**Prop Diameter:** 80.6" TO 78"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.5 +/-0.2  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 2076      **Rev.:** -      **DM Date:** 11/20/2003

**Modifier:**  
**Engine Model:** IO-720-A1A  
**Power:** 400 HP @ 2650 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 33.5 +/-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:**

#### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u> | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|--------------------|-----------------|----------------|-----------------|
| BLADE            | V8433-4            | BLADE              | 3               | Prop           |                 |
| BLADE            | V8433N-4           | BLADE              | 3               | Prop           |                 |
| SPINNER          | C-2513-2           | SPINNER ASSEMBLY   | 1               | Prop           |                 |
| GOVERNOR         | F4-1               | IDS Item           | 1               | A/C            |                 |

### AERO COMMANDER (CALLAIR)

**Model:** B1 (CALLAIR)  
**Trade Name:**  
**Aircraft T.C./STC:** A7WE, A8WE  
**Propeller Model:** HC-A3MVK-4  
**Propeller T.C.:** P6EA  
**Blade Model(s):** MV8433N-4  
**Prop Diameter:** 80.6" TO 78"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.5 +/-0.2  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 41      **Rev.:** -      **DM Date:** 06/13/2006

**Modifier:**  
**Engine Model:** IO-720-A1A  
**Power:** 400 HP @ 2650 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 33.5 +/-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:**

#### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>       | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|--------------------------|-----------------|----------------|-----------------|
| BLADE            | MV8433N-4          | PCP:BLADE UNIT, ALUMINUM | 3               | Prop           |                 |
| SPINNER          | C-2513-2           | SPINNER ASSEMBLY         | 1               | Prop           |                 |
| GOVERNOR         | F4-1               | IDS Item                 | 1               | A/C            |                 |



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### AERO COMMANDER (CALLAIR)

**Model:** B1A (CALLAIR)  
**Trade Name:**  
**Aircraft T.C./STC:** A7WE, A8WE  
**Propeller Model:** HA-B3Z30-1  
**Propeller T.C.:**  
**Blade Model(s):** 10160-6  
10160N-6  
**Prop Diameter:** 95" NO CUT OFF

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 20.0 +/-0.2  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

#### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u> | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|--------------------|-----------------|----------------|-----------------|
| BLADE            | 10160-6            | IDS Item           | 3               | Prop           |                 |
| BLADE            | 10160N-6           | IDS Item           | 3               | Prop           |                 |
| SPINNER          | 836-16R            | IDS Item           | 1               | Prop           |                 |

**IDS No.:** 42      **Rev.:** -      **DM Date:** 06/13/2006

**Modifier:**  
**Engine Model:** R985-AN1, AN3, AN14B, 1B5  
**Power:** 450 HP @ 2300 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** NA  
**Cwt Angle:** Positive

**Non-HPI Governor:**

### AERO COMMANDER 200, 400

**Model:** see PROP JETS INC.  
**Trade Name:**  
**Aircraft T.C./STC:**  
**Propeller Model:**  
**Propeller T.C.:**  
**Blade Model(s):**  
**Prop Diameter:**

#### Prop Setup:

**Ref. Radius:**  
**Reverse Angle:**  
**Low Pitch Angle:**  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

#### Hartzell Approved Items:

**IDS No.:** 43      **Rev.:** -      **DM Date:** 02/02/2005

**Modifier:**  
**Engine Model:**  
**Power:** HP @ RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:**  
**Feather/High Angle:**  
**Cwt Angle:**

**Non-HPI Governor:**

# HARTZELL

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### AERO COMMANDER 700

**Model:** see FUJI 700

**Trade Name:**

**Aircraft T.C./STC:**

**Propeller Model:**

**Propeller T.C.:**

**Blade Model(s):**

**Prop Diameter:**

#### Prop Setup:

**Ref. Radius:**

**Reverse Angle:**

**Low Pitch Angle:**

**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

#### Hartzell Approved Items:

**IDS No.:** 44

**Rev.:** -

**DM Date:** 02/02/2005

**Modifier:**

**Engine Model:**

**Power:** HP @ RPM

**Placard/Restr:**

**Notes:**

**Startlock Angle:**

**Feather/High Angle:**

**Cwt Angle:**

**Non-HPI Governor:**

### AERO COMMANDER THRUSH

**Model:** see AYRES

**Trade Name:**

**Aircraft T.C./STC:**

**Propeller Model:**

**Propeller T.C.:**

**Blade Model(s):**

**Prop Diameter:**

#### Prop Setup:

**Ref. Radius:**

**Reverse Angle:**

**Low Pitch Angle:**

**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

#### Hartzell Approved Items:

**IDS No.:** 45

**Rev.:** -

**DM Date:** 10/01/1992

**Modifier:**

**Engine Model:**

**Power:** HP @ RPM

**Placard/Restr:**

**Notes:**

**Startlock Angle:**

**Feather/High Angle:**

**Cwt Angle:**

**Non-HPI Governor:**

# HARTZELL

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### AERO ENGINES

**Model:** AIRCRUISER  
**Trade Name:**  
**Aircraft T.C./STC:** Unknown  
**Propeller Model:** BHC-C2YF-1BF  
**Propeller T.C.:** P-920  
**Blade Model(s):** F7663  
**Prop Diameter:** 74"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 11.5 +-0.1  
**Stud Protrusion:** 1.120 +-0.030

#### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 47      **Rev.:** 1      **IC Date:** 07/07/2015

**Modifier:**

**Engine Model:** IO-360-D

**Power:** 210 HP @ 2800 RPM

**Placard/Restr:**

**Notes:**

**Startlock Angle:** NA

**Feather/High Angle:** 30.0 +-1.0

**Cwt Angle:**

**Non-HPI Governor:**

#### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>       | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|--------------------------|-----------------|----------------|--------------------------|
| BLADE            | F7663              | PCP:BLADE UNIT, ALUMINUM | 2               | Prop           |                          |
| SPINNER          | 835-23             | SPINNER ASSEMBLY         | 1               | Prop           |                          |
| MTG BOLT/STUD    | A-2429-3           | STUD, MOUNTING, 1/2-20   | 6               | Prop           |                          |
| OVERHAUL KIT     | BHC-C2YF-1BF-OH    | O/H KIT                  | 1               | Prop           | For aftermarket use only |

### AERO MERCANTILE

**Model:** see EL GAVILAN S.A.  
**Trade Name:**  
**Aircraft T.C./STC:**  
**Propeller Model:**  
**Propeller T.C.:**  
**Blade Model(s):**  
**Prop Diameter:**

#### Prop Setup:

**Ref. Radius:**  
**Reverse Angle:**  
**Low Pitch Angle:**  
**Stud Protrusion:**

#### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 48      **Rev.:** -      **DM Date:** 11/09/1997

**Modifier:**

**Engine Model:**

**Power:** HP @ RPM

**Placard/Restr:**

**Notes:**

**Startlock Angle:**

**Feather/High Angle:**

**Cwt Angle:**

**Non-HPI Governor:**

#### Hartzell Approved Items:

# HARTZELL

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### AERO VODOCHODY

**Model:** Ae 270  
**Trade Name:** IBIS  
**Aircraft T.C./STC:** Unknown  
**Propeller Model:** HC-E4N-3P  
**Propeller T.C.:** P10NE

**Blade Model(s):** D9511FASK  
**Prop Diameter:** 96"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** -12.8 +-0.5  
**Low Pitch Angle:** 21.5 +-0.1  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 2506      **Rev.:** 1      **IC Date:** 08/13/2015

**Modifier:**

**Engine Model:** PT6A-66A

**Power:** 850 HP @ 2000 RPM

**Placard/Restr:** Avoid stabilized ground operation between 450 and 1050 RPM.

**Notes:**

**Startlock Angle:** N/A

**Feather/High Angle:** 86.1 +-0.5

**Cwt Angle:**

**Non-HPI Governor:**

#### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>                | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|-----------------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | E4N00160S          | HC-E4N-3P/D9511FASK/D-630-3P      | 1               | A/C            |                          |
| BLADE            | D9511FASK          | PCP:BLADE UNIT, ALUMINUM          | 4               | Prop           |                          |
| SPINNER          | D-630-3P           | SPINNER ASSEMBLY                  | 1               | Prop           |                          |
| COUNTERWEIGHT    | C-472-1            | PCP:COUNTERWEIGHT                 | 1               | Blade          |                          |
| DE-ICER          | 7931-4E2595-12     | PROP DE-ICER, THERMAL EFFICIENT   | 1               | Blade          | BLADE COMPONENT          |
| DE-ICE KIT PR    | 106308             | DE-ICE KIT (ONE PROP)             | 1               | Prop           | Supersedes 7931-5E2681-1 |
| DE-ICE KIT PR    | 7931-5E2681-1      | DE-ICE KIT (ONE PROP)             | 1               | Prop           | Superseded by 106308     |
| MTG BOLT/STUD    | B-3339-1           | BOLT, MOUNTING, 9/16-18, 12 POINT | 8               | Prop           |                          |

### AEROCAR

**Model:** 1  
**Trade Name:**  
**Aircraft T.C./STC:** 4A16  
**Propeller Model:** HA-12UF  
**Propeller T.C.:**  
**Blade Model(s):** L8032-4  
**Prop Diameter:** 76" TO 74.5"

#### Prop Setup:

**Ref. Radius:** 27  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.5 +-0.2  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 49      **Rev.:** -      **DM Date:** 10/01/1992

**Modifier:**

**Engine Model:** O-320, O-340-R1A(2420/154hp)

**Power:** 143 HP @ 2300 RPM

**Placard/Restr:**

**Notes:**

**Startlock Angle:** NA

**Feather/High Angle:** NA

**Cwt Angle:**

**Non-HPI Governor:**

#### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>        | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|---------------------------|-----------------|----------------|-----------------|
| BLADE            | L8032-4            | IDS ITEM, BLADE, HARTZITE | 2               | Prop           |                 |

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### AEROCAR

Model: 1  
Trade Name:  
Aircraft T.C./STC: 4A16  
Propeller Model: HA-12UF  
Propeller T.C.:  
Blade Model(s): L8032-8  
Prop Diameter: 72" TO 70.5"

#### Prop Setup:

Ref. Radius: 30  
Reverse Angle: NA  
Low Pitch Angle: 13.0 +-0.2  
Stud Protrusion

#### Non-HPI Items:

Non-HPI Spinner:

IDS No.: 50 Rev.: - DM Date: 10/01/1992

Modifier:  
Engine Model: O-360-D2B  
Power: 160 HP @ 2500 RPM  
Placard/Restr:  
Notes:

Startlock Angle: NA  
Feather/High Angle: NA  
Cwt Angle:

Non-HPI Governor:

#### Hartzell Approved Items:

| Item Type | Item Number | Description               | Quantity | Qty Per | Comments |
|-----------|-------------|---------------------------|----------|---------|----------|
| BLADE     | L8032-8     | IDS ITEM, BLADE, HARTZITE | 2        | Prop    |          |

### AEROCAR

Model: COOT  
Trade Name: AMPHIBIAN  
Aircraft T.C./STC: Experimental  
Propeller Model: HC-C2YL-1BLF  
Propeller T.C.:  
Blade Model(s): FL7663-6R  
Prop Diameter: 70"

#### Prop Setup:

Ref. Radius: 30  
Reverse Angle: NA  
Low Pitch Angle: 13.0 +-0.1  
Stud Protrusion

#### Non-HPI Items:

Non-HPI Spinner:

IDS No.: 51 Rev.: - DM Date: 10/01/1992

Modifier:  
Engine Model: O-320-A  
Power: 150 HP @ 2700 RPM  
Placard/Restr:  
Notes:

Startlock Angle: NA  
Feather/High Angle: 30.0 +-1.0  
Cwt Angle:

Non-HPI Governor:

#### Hartzell Approved Items:

| Item Type     | Item Number | Description                    | Quantity | Qty Per | Comments |
|---------------|-------------|--------------------------------|----------|---------|----------|
| BLADE         | FL7663-6R   | PCP:BLADE UNIT, ALUMINUM       | 2        | Prop    |          |
| GOVERNOR      | F2-7A       | GOVERNOR ASSEMBLY, F-2-( )     | 1        | A/C     |          |
| MTG BOLT/STUD | A-2247-1    | STUD, MOUNTING,7/16-20,DRILLED | 6        | Prop    |          |

# HARTZELL

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### AEROCAR

**Model:** COOT  
**Trade Name:** AMPHIBIAN  
**Aircraft T.C./STC:** Experimental  
**Propeller Model:** HC-C2YF-1BLF  
**Propeller T.C.:**  
**Blade Model(s):** FL8459A-8Q  
**Prop Diameter:** 76"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 10.5 +-0.2  
**Stud Protrusion** 1.450 +-0.030

#### Non-HPI Items:

**Non-HPI Spinner:**

#### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>       | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|--------------------------|-----------------|----------------|-----------------|
| BLADE            | FL8459A-8Q         | PCP:BLADE UNIT, ALUMINUM | 2               | Prop           |                 |
| MTG BOLT/STUD    | A-2429-4           | STUD, MOUNTING, 1/2-20   | 6               | Prop           |                 |

**IDS No.:** 52      **Rev.:** -      **DM Date:** 07/20/1999

**Modifier:**  
**Engine Model:** 6A-350-C1  
**Power:** 220 HP @ 2800 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 24.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

### AEROCAR

**Model:** COOT  
**Trade Name:** AMPHIBIAN  
**Aircraft T.C./STC:** Experimental  
**Propeller Model:** HC-C2YF-1BLF  
**Propeller T.C.:**  
**Blade Model(s):** FL8459A-10  
**Prop Diameter:** 74"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 10.0 +-0.2  
**Stud Protrusion** 1.450 +-0.030

#### Non-HPI Items:

**Non-HPI Spinner:**

#### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>       | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|--------------------------|-----------------|----------------|-----------------|
| BLADE            | FL8459A-10         | PCP:BLADE UNIT, ALUMINUM | 2               | Prop           |                 |
| MTG BOLT/STUD    | A-2429-4           | STUD, MOUNTING, 1/2-20   | 6               | Prop           |                 |

**IDS No.:** 53      **Rev.:** -      **DM Date:** 08/17/1999

**Modifier:**  
**Engine Model:** 6A-335-A  
**Power:** 180 HP @ 2800 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 23.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

# HARTZELL

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**AEROCAR**

**Model:** COOT  
**Trade Name:** AMPHIBIAN  
**Aircraft T.C./STC:** Experimental  
**Propeller Model:** HC-C2YK-1BLF  
**Propeller T.C.:** P-920

**Blade Model(s):** FL7666A-2  
**Prop Diameter:** 74"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.0 +-0.1  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>       | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|--------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | C2K00211           | HC-C2YK-1BLF/FL7666A-2   | 1               | A/C            |                          |
| BLADE            | FL7666A-2          | PCP:BLADE UNIT, ALUMINUM | 2               | Prop           |                          |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20   | 6               | Prop           |                          |
| OVERHAUL KIT     | HC-C2YK-1BLF-OH    | O/H KIT                  | 1               | Prop           | For aftermarket use only |

**IDS No.:** 54      **Rev.:** 1      **IC Date:** 07/07/2015

**Modifier:**  
**Engine Model:** O-360-( )  
**Power:** 180 HP @ 2700 RPM  
**Placard/Restr:** Avoid continuous operation between 2000 and 2250 RPM.

### **Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 29.0 +-2.0  
**Cwt Angle:**

**Non-HPI Governor:**

**AEROCAR**

**Model:** COOT  
**Trade Name:** AMPHIBIAN  
**Aircraft T.C./STC:** Experimental  
**Propeller Model:** HC-C3YF-1RLF  
**Propeller T.C.:**  
**Blade Model(s):** FL7663-10  
**Prop Diameter:** 66"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.0 +-0.1  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>       | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|--------------------------|-----------------|----------------|-----------------|
| BLADE            | FL7663-10          | IDS ITEM, BLADE, [2,2,1] | 3               | Prop           |                 |
| SPINNER          | 835-38             | SPINNER ASSEMBLY         | 1               | Prop           |                 |

**IDS No.:** 55      **Rev.:** -      **DM Date:** 10/01/1992

**Modifier:**  
**Engine Model:** 6-335  
**Power:** 180 HP @ 2800 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 28.0 +-2.0  
**Cwt Angle:**

**Non-HPI Governor:** WOODWARD

# HARTZELL

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**AEROFAB**

**Model:** see LAKE

**Trade Name:**

**Aircraft T.C./STC:**

**Propeller Model:**

**Propeller T.C.:**

**Blade Model(s):**

**Prop Diameter:**

**Prop Setup:**

**Ref. Radius:**

**Reverse Angle:**

**Low Pitch Angle:**

**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

**IDS No.:** 56

**Rev.:** -

**DM Date:** 10/01/1992

**Modifier:**

**Engine Model:**

**Power:** HP @ RPM

**Placard/Restr:**

**Notes:**

**Startlock Angle:**

**Feather/High Angle:**

**Cwt Angle:**

**Non-HPI Governor:**

**AEROMERE S.A.**

**Model:** F.8.L

**Trade Name:** FALCO

**Aircraft T.C./STC:** 7A11

**Propeller Model:** HC-82XL-1, HC-A2XL-1, HC-82XL-1F

**Propeller T.C.:** P24EA

**Blade Model(s):** 7636-4

7636D-4

**Prop Diameter:** 72.2" TO 70"

**Prop Setup:**

**Ref. Radius:** 30

**Reverse Angle:** NA

**Low Pitch Angle:** 12.0 +-0.2

**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

**IDS No.:** 2077

**Rev.:** -

**DM Date:** 01/12/2004

**Modifier:**

**Engine Model:** O-320-A1A

**Power:** 150 HP @ 2700 RPM

**Placard/Restr:**

**Notes:**

**Startlock Angle:** NA

**Feather/High Angle:** 25.5 +-0.5

**Cwt Angle:** Positive

**Non-HPI Governor:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u> | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>      |
|------------------|--------------------|--------------------|-----------------|----------------|----------------------|
| BLADE            | 7636-4             | BLADE              | 2               | Prop           |                      |
| BLADE            | 7636D-4            | BLADE              | 2               | Prop           |                      |
| SPINNER          | 835-30             | SPINNER ASSEMBLY   | 1               | Prop           |                      |
| SPINNER          | 835-6              | IDS Item           | 1               | Prop           | Superseded by 835-30 |



# HARTZELL

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AEROMERE S.A.

IDS No.: 2078 Rev.: - DM Date: 01/12/2004

Model: F.8.L  
Trade Name: FALCO  
Aircraft T.C./STC: 7A11  
Propeller Model: HC-82VL-1, HC-A2VL-1, HC-82VL-1F  
Propeller T.C.: P24EA  
Blade Model(s): V7636D-4  
V7636N-4  
Prop Diameter: 72.2" TO 70"

Modifier:  
Engine Model: O-320-A1A  
Power: 150 HP @ 2700 RPM  
Placard/Restr:

Notes:

### Prop Setup:

Ref. Radius: 30  
Reverse Angle: NA  
Low Pitch Angle: 12.0 +-0.2  
Stud Protrusion

Startlock Angle: NA  
Feather/High Angle: 25.5 +-0.5  
Cwt Angle: Positive

### Non-HPI Items:

Non-HPI Spinner:

Non-HPI Governor:

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u> | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>      |
|------------------|--------------------|--------------------|-----------------|----------------|----------------------|
| BLADE            | V7636D-4           | BLADE              | 2               | Prop           |                      |
| BLADE            | V7636N-4           | BLADE              | 2               | Prop           |                      |
| SPINNER          | 835-30             | SPINNER ASSEMBLY   | 1               | Prop           |                      |
| SPINNER          | 835-6              | IDS Item           | 1               | Prop           | Superseded by 835-30 |

AEROMERE S.A.

IDS No.: 58 Rev.: - DM Date: 01/12/2004

Model: F.8.L  
Trade Name: FALCO  
Aircraft T.C./STC: 7A11  
Propeller Model: HC-A2MVL-1  
Propeller T.C.: P24EA  
Blade Model(s): MV7636N-4  
Prop Diameter: 72.2" TO 70"

Modifier:  
Engine Model: O-320-A1A  
Power: 150 HP @ 2700 RPM  
Placard/Restr:

Notes:

### Prop Setup:

Ref. Radius: 30  
Reverse Angle: NA  
Low Pitch Angle: 12.0 +-0.2  
Stud Protrusion

Startlock Angle: NA  
Feather/High Angle: 25.5 +-0.5  
Cwt Angle: Positive

### Non-HPI Items:

Non-HPI Spinner:

Non-HPI Governor:

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>       | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>      |
|------------------|--------------------|--------------------------|-----------------|----------------|----------------------|
| BLADE            | MV7636N-4          | PCP:BLADE UNIT, ALUMINUM | 2               | Prop           |                      |
| SPINNER          | 835-30             | SPINNER ASSEMBLY         | 1               | Prop           |                      |
| SPINNER          | 835-6              | IDS Item                 | 1               | Prop           | Superseded by 835-30 |

# HARTZELL

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**AEROMERE S.A.**

**Model:** F.8.L  
**Trade Name:** FALCO  
**Aircraft T.C./STC:** 7A11  
**Propeller Model:** HC-C2YL-1BF  
**Propeller T.C.:** P-920  
**Blade Model(s):** F7663-4  
**Prop Diameter:** 72" TO 70"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.0 +-0.2  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number | Description                      | Quantity | Qty Per | Comments |
|---------------|-------------|----------------------------------|----------|---------|----------|
| PROPELLER     | C2L00039    | HC-C2YL-1BF/F7663-4              | 1        | A/C     |          |
| BLADE         | F7663-4     | PCP:BLADE UNIT, ALUMINUM         | 2        | Prop    |          |
| SPINNER       | 835-20      | IDS Item                         | 1        | Prop    |          |
| SPINNER       | 835-33      | SPINNER ASSEMBLY                 | 1        | Prop    |          |
| SPINNER       | A-3519      | SPINNER ASSEMBLY                 | 1        | Prop    |          |
| MTG BOLT/STUD | A-2247-1    | STUD, MOUNTING, 7/16-20, DRILLED | 6        | Prop    |          |

**IDS No.:** 59      **Rev.:** -      **DM Date:** 06/06/2006

**Modifier:**  
**Engine Model:** O-320-A1A  
**Power:** 150 HP @ 2700 RPM  
**Placard/Restr:**

**Notes:** Propeller Model HC-C2YL-1 is listed on the aircraft type certificate

**Startlock Angle:** NA  
**Feather/High Angle:** 30.0 +-0.5  
**Cwt Angle:**

**Non-HPI Governor:**

**AERONCA**

**Model:** 15AC, S15AC  
**Trade Name:** AeroSedan  
**Aircraft T.C./STC:** SA02552AK  
**Propeller Model:** HC-C2YR-1N  
**Propeller T.C.:** P-920  
**Blade Model(s):** NG8301-3  
**Prop Diameter:** 80

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** N/A  
**Low Pitch Angle:** 10.5 +-0.2  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number | Description               | Quantity | Qty Per | Comments |
|---------------|-------------|---------------------------|----------|---------|----------|
| PROPELLER     | C2R40520    | HC-C2YR-1N/NG8301-3/SM16  | 1        | A/C     |          |
| BLADE         | NG8301-3    | PCP:BLADE ASSY, COMPOSITE | 2        | Prop    |          |
| SPINNER       | C-3568      | SPINNER ASSEMBLY          | 1        | Prop    |          |
| SPINNER       | C-3568-P    | SPINNER ASSEMBLY          | 1        | Prop    |          |
| GOVERNOR      | S-1-93      | GOVERNOR ASSEMBLY, S-1-93 | 1        | A/C     |          |
| SPIN MTG KIT  | A-2476-16   | SPINNER - MTG KIT         | 1        | Prop    |          |
| MTG BOLT/STUD | A-2067      | STUD, MOUNTING, 1/2-20    | 6        | Prop    |          |

**IDS No.:** 3514      **Rev.:** 4      **IC Date:** 08/18/2021

**Modifier:** BURL'S AIRCRAFT  
**Engine Model:** O-360-A1A, A1D, A1F, A1F6, A1P  
**Power:** 180 HP @ 2700 RPM  
**Placard/Restr:** None.

**Notes:**  
**Startlock Angle:** N/A  
**Feather/High Angle:** 30.0 +-1.0  
**Cwt Angle:** N/A

**Non-HPI Governor:**

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**AERONCA**

**Model:** see AMERICAN CHAMPION  
**Trade Name:**  
**Aircraft T.C./STC:**  
**Propeller Model:**  
**Propeller T.C.:**  
**Blade Model(s):**  
**Prop Diameter:**

**Prop Setup:**

**Ref. Radius:**  
**Reverse Angle:**  
**Low Pitch Angle:**  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

**IDS No.:** 1493      **Rev.:** -      **DM Date:** 10/01/1992

**Modifier:**  
**Engine Model:**  
**Power:** HP @ RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:**  
**Feather/High Angle:**  
**Cwt Angle:**

**Non-HPI Governor:**

**AERONCA**

**Model:** 15AC  
**Trade Name:** SEDAN  
**Aircraft T.C./STC:** SA302NW  
**Propeller Model:** HC-C2YR-1BF  
**Propeller T.C.:** P-920

**Blade Model(s):** F7666A  
**Prop Diameter:** 76 TO 72

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** 13.0 +-0.2  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

**IDS No.:** 2627      **Rev.:** 1      **IC Date:** 07/07/2015

**Modifier:** BURL'S AIRCRAFT  
**Engine Model:** O-360-A1A  
**Power:** 180 HP @ 2700 RPM  
**Placard/Restr:** Avoid continuous operation between 2000 - 2250 RPM

**Notes:**

**Startlock Angle:**  
**Feather/High Angle:** 29.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>           | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|------------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | C2R00680           | HC-C2YR-1BF/F7666A           | 1               | A/C            |                          |
| BLADE            | F7666A             | PCP:BLADE UNIT, ALUM [1,1,1] | 2               | Prop           |                          |
| SPINNER          | 835-33             | SPINNER ASSEMBLY             | 1               | Prop           |                          |
| GOVERNOR         | D1-6               | GOVERNOR ASSEMBLY, D-1-( )   | 1               | A/C            |                          |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20       | 6               | Prop           |                          |
| OVERHAUL KIT     | HC-C2YR-1BF-OH     | O/H KIT                      | 1               | Prop           | For aftermarket use only |

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### AERONCA

**Model:** 15AC  
**Trade Name:** SEDAN  
**Aircraft T.C./STC:** SA02197AK  
**Propeller Model:** HC-C2YR-1BF  
**Propeller T.C.:** P-920  
**Blade Model(s):** F8477-4  
**Prop Diameter:** 80 TO 78

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** 10.0 +/-0.2  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number    | Description                    | Quantity | Qty Per | Comments                 |
|---------------|----------------|--------------------------------|----------|---------|--------------------------|
| PROPELLER     | C2R00074       | HC-C2YR-1BF/F8477-4/SM16/C1576 | 1        | A/C     |                          |
| BLADE         | F8477-4        | PCP:BLADE UNIT, ALUM [1,1,1]   | 2        | Prop    |                          |
| SPINNER       | C-3568         | SPINNER ASSEMBLY               | 1        | Prop    |                          |
| SPINNER       | C-3568-P       | SPINNER ASSEMBLY               | 1        | Prop    |                          |
| SPIN MTG KIT  | A-2476-16      | SPINNER - MTG KIT              | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2067         | STUD, MOUNTING, 1/2-20         | 6        | Prop    |                          |
| DAMPER        | C-1576         | DAMPER ASSEMBLY                | 1        | Prop    |                          |
| OVERHAUL KIT  | HC-C2YR-1BF-OH | O/H KIT                        | 1        | Prop    | For aftermarket use only |

**IDS No.:** 2628      **Rev.:** 1      **IC Date:** 07/07/2015

**Modifier:** BURL'S AIRCRAFT  
**Engine Model:** O-360-A1A, A1D, A1F, A1F6, A1P  
**Power:** 180 HP @ 2700 RPM  
**Placard/Restr:**

**Notes:** Must use C-1576 damper assembly except with O-360-A1F6 engine

**Startlock Angle:** NA  
**Feather/High Angle:** 30.9 +/-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

### AERONCA AIRCRAFT CORP.

**Model:** 15AC  
**Trade Name:**  
**Aircraft T.C./STC:** A-802  
**Propeller Model:** HA-12UF-3  
**Propeller T.C.:**  
**Blade Model(s):** 8032-6  
**Prop Diameter:** 74.0" TO 72.0"

**Prop Setup:**

**Ref. Radius:** 0  
**Reverse Angle:** NA  
**Low Pitch Angle:** 2240 TO 2490 RPM  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type | Item Number | Description | Quantity | Qty Per | Comments |
|-----------|-------------|-------------|----------|---------|----------|
| BLADE     | 8032-6      | IDS Item    | 2        | Prop    |          |

**IDS No.:** 63      **Rev.:** -      **DM Date:** 10/01/1992

**Modifier:**  
**Engine Model:** C-145-2 with "D" s/n suffix  
**Power:** 145 HP @ 2700 RPM  
**Placard/Restr:**

**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** NA  
**Cwt Angle:**

**Non-HPI Governor:**

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**AERONCA AIRCRAFT CORP.**

**Model:** 15AC, S15AC  
**Trade Name:**  
**Aircraft T.C./STC:** STC-SA548CE  
**Propeller Model:** HC-C2YF-1BF  
**Propeller T.C.:** P-920  
**Blade Model(s):** F7663  
**Prop Diameter:** 76"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 14.0 +-0.1  
**Stud Protrusion** 1.120 +-0.030

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 64      **Rev.:** -      **DM Date:** 09/21/2004

**Modifier:** JOHN R HARDY  
**Engine Model:** IO-346-B  
**Power:** 165 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 28.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>       | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|--------------------------|-----------------|----------------|-----------------|
| BLADE            | F7663              | PCP:BLADE UNIT, ALUMINUM | 2               | Prop           |                 |
| MTG BOLT/STUD    | A-2429-3           | STUD, MOUNTING, 1/2-20   | 6               | Prop           |                 |

**AERONCA AIRCRAFT CORP.**

**Model:** O-58B  
**Trade Name:**  
**Aircraft T.C./STC:** A-751  
**Propeller Model:** HA-12U  
**Propeller T.C.:**  
**Blade Model(s):** 7214M  
7414  
**Prop Diameter:** 74" TO 72"

### Prop Setup:

**Ref. Radius:** 0  
**Reverse Angle:** NA  
**Low Pitch Angle:** 2010 TO 2200 RPM  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 65      **Rev.:** -      **DM Date:** 10/01/1992

**Modifier:**  
**Engine Model:** A-65-8  
**Power:** 65 HP @ 2300 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** NA  
**Cwt Angle:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u> | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|--------------------|-----------------|----------------|-----------------|
| BLADE            | 7214M              | IDS Item           | 2               | Prop           |                 |
| BLADE            | 7414               | IDS Item           | 2               | Prop           |                 |

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**AERONCA AIRCRAFT CORP.**

**Model:** 65-()  
**Trade Name:**  
**Aircraft T.C./STC:** A728  
**Propeller Model:** HA-12U  
**Propeller T.C.:**  
**Blade Model(s):** 7214M  
7414  
**Prop Diameter:** 74" TO 72"

### Prop Setup:

**Ref. Radius:** 0  
**Reverse Angle:** NA  
**Low Pitch Angle:** PER RPM LIMITS  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u> | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|--------------------|-----------------|----------------|-----------------|
| BLADE            | 7214M              | IDS Item           | 2               | Prop           |                 |
| BLADE            | 7414               | IDS Item           | 2               | Prop           |                 |

**IDS No.:** 66      **Rev.:** -      **DM Date:** 10/01/1992

**Modifier:**  
**Engine Model:**  
**Power:** HP @ RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** NA  
**Cwt Angle:**

**Non-HPI Governor:**

**AERONORTEC**

**Model:** see NORMAN AEROPLANE  
**Trade Name:**  
**Aircraft T.C./STC:**  
**Propeller Model:**  
**Propeller T.C.:**  
**Blade Model(s):**  
**Prop Diameter:**

### Prop Setup:

**Ref. Radius:**  
**Reverse Angle:**  
**Low Pitch Angle:**  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

### Hartzell Approved Items:

**IDS No.:** 67      **Rev.:** -      **DM Date:** 10/01/1992

**Modifier:**  
**Engine Model:**  
**Power:** HP @ RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:**  
**Feather/High Angle:**  
**Cwt Angle:**

**Non-HPI Governor:**

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### AEROSPACE TECHNOLOGIES

**Model:** N22B, N24A, N22S, N22C  
**Trade Name:** NOMAD  
**Aircraft T.C./STC:** A7PC  
**Propeller Model:** HC-A3VF-7, HC-A3VF-7B  
**Propeller T.C.:** P6EA  
**Blade Model(s):** V10133N-11  
**Prop Diameter:** 90.63" TO 88.0"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** -13.5 +-0.5  
**Low Pitch Angle:** 6.0 +-0.5 F.I. (set on aircraft)  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

#### Hartzell Approved Items:

| Item Type                     | Item Number | Description                   | Quantity | Qty Per | Comments |
|-------------------------------|-------------|-------------------------------|----------|---------|----------|
| BLADE                         | V10133N-11  | BLADE UNIT, ALUMINUM          | 3        | Prop    |          |
| SPINNER                       | 835-39      | SPINNER ASSEMBLY              | 1        | Prop    |          |
| COUNTERWEIGHT SLUG B-3386-14H |             | BOLT,3/8-24,HEX HEAD          | 2        | Blade   |          |
| COUNTERWEIGHT SLUG B-3663-3   |             | PCP:SLUG, COUNTERWEIGHT       | 1        | Blade   |          |
| MTG BOLT/STUD                 | A-1328-1    | BOLT,MOUNTING,1/2-20,12 POINT | 6        | Prop    |          |

**IDS No.:** 2316      **Rev.:** -      **DM Date:** 11/23/2003

**Modifier:**  
**Engine Model:** 250-B17B, -B17C,E,F (420hp)  
**Power:** 400 HP @ 2030 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 85.0 +-1.0  
**Cwt Angle:** Positive

**Non-HPI Governor:**

### AEROSPACE TECHNOLOGIES

**Model:** N22B, N24A, N22S, N22C  
**Trade Name:** NOMAD  
**Aircraft T.C./STC:** A7PC  
**Propeller Model:** HC-A3MVF-7B  
**Propeller T.C.:** P6EA  
**Blade Model(s):** MV10133N-11  
**Prop Diameter:** 90.63" TO 88.0"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** -13.5 +-0.5  
**Low Pitch Angle:** 6.0 +-0.5 F.I. (set on aircraft)  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

#### Hartzell Approved Items:

| Item Type                      | Item Number    | Description                   | Quantity | Qty Per | Comments                 |
|--------------------------------|----------------|-------------------------------|----------|---------|--------------------------|
| PROPELLER                      | A3F10200       | HC-A3MVF-7B/MV10133N-11       | 2        | A/C     |                          |
| BLADE                          | MV10133N-11    | PCP:BLADE UNIT, ALUMINUM      | 3        | Prop    |                          |
| SPINNER                        | 835-39         | SPINNER ASSEMBLY              | 1        | Prop    |                          |
| COUNTERWEIGHT SLUG B-3386-14H  |                | BOLT,3/8-24,HEX HEAD          | 2        | Blade   |                          |
| COUNTERWEIGHT SLUG B-3663-3    |                | PCP:SLUG, COUNTERWEIGHT       | 1        | Blade   |                          |
| COUNTERWEIGHT SLUG B-3834-0632 |                | WASHER                        | 2        | Blade   |                          |
| MTG BOLT/STUD                  | A-1328-1       | BOLT,MOUNTING,1/2-20,12 POINT | 6        | Prop    |                          |
| OVERHAUL KIT                   | HC-A3MVF-7B-OH | O/H KIT                       | 1        | Prop    | For aftermarket use only |

**IDS No.:** 521      **Rev.:** 2      **IC Date:** 07/07/2015

**Modifier:**  
**Engine Model:** 250-B17B, -B17C,E,F (420hp)  
**Power:** 400 HP @ 2030 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 85.0 +-1.0  
**Cwt Angle:** Positive

**Non-HPI Governor:**

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### AEROSPATIALE

**Model:** GA7  
**Trade Name:** COUGAR  
**Aircraft T.C./STC:** A17SO  
**Propeller Model:** HC-F2YL-2UF  
**Propeller T.C.:** P27EA  
**Blade Model(s):** FC7663D-3  
**Prop Diameter:** 73" TO 72"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 11.5 +-0.1  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 571      **Rev.:** -      **DM Date:** 04/14/2004

**Modifier:**  
**Engine Model:** O-320-D1D  
**Power:** 160 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:** Formerly Grumman American

**Startlock Angle:** 17.0 +-1.5  
**Feather/High Angle:** 81.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

#### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>             | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|--------------------------------|-----------------|----------------|-----------------|
| PROPELLER        | F2L00100           | HC-F2YL-2UF/FC7663D-3/SM4      | 2               | A/C            |                 |
| BLADE            | FC7663D-3          | PCP:BLADE UNIT, ALUMINUM       | 2               | Prop           |                 |
| SPINNER          | D-4532-2           | SPINNER ASSEMBLY               | 1               | Prop           |                 |
| GOVERNOR         | F6-40              | IDS Item                       | 2               | A/C            |                 |
| SPIN MTG KIT     | A-2476-4           | SPINNER - MTG KIT              | 1               | Prop           |                 |
| COUNTERWEIGHT    | B-3202H-5          | PCP:COUNTERWEIGHT              | 1               | Blade          | Blade Component |
| MTG BOLT/STUD    | A-2247-1           | STUD, MOUNTING,7/16-20,DRILLED | 6               | Prop           |                 |

### AEROSPATIALE (MORANE SAULNIER)

**Model:** 235C, E  
**Trade Name:** RALLYE 235C, E  
**Aircraft T.C./STC:** 7A14  
**Propeller Model:** HC-C2YK-1BF  
**Propeller T.C.:** P-920  
**Blade Model(s):** F8468A-4  
**Prop Diameter:** 80.0" TO 77.0"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.8 +-0.2  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 69      **Rev.:** -      **DM Date:** 03/22/2001

**Modifier:**  
**Engine Model:** O-540-B4B5  
**Power:** 235 HP @ 2575 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 28.3 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:** WOODWARD

#### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>           | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|------------------------------|-----------------|----------------|-----------------|
| PROPELLER        | C2K00100           | HC-C2YK-1BF/F8468A-4         | 1               | A/C            |                 |
| BLADE            | F8468A-4           | PCP:BLADE UNIT, ALUM [1,1,1] | 2               | Prop           |                 |
| SPINNER          | 835-33             | SPINNER ASSEMBLY             | 1               | Prop           |                 |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20       | 6               | Prop           |                 |



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### AEROSPATIALE (MORANE SAULNIER)

**Model:** MS893A, E , 180GT  
**Trade Name:** RALLYE COMMODORE, 180GT  
**Aircraft T.C./STC:** 7A14  
**Propeller Model:** HC-C2YK-1B(F)  
**Propeller T.C.:** P-920

**Blade Model(s):** F7666A-2  
**Prop Diameter:** 74" TO 72"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 11.5 +-0.2  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

#### Hartzell Approved Items:

| Item Type     | Item Number    | Description              | Quantity | Qty Per | Comments                 |
|---------------|----------------|--------------------------|----------|---------|--------------------------|
| PROPELLER     | C2K00028       | HC-C2YK-1BF/F7666A-2     | 1        | A/C     |                          |
| BLADE         | F7666A-2       | PCP:BLADE UNIT, ALUMINUM | 2        | Prop    |                          |
| SPINNER       | 835-33         | SPINNER ASSEMBLY         | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2067         | STUD, MOUNTING, 1/2-20   | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-C2YK-1BF-OH | O/H KIT                  | 1        | Prop    | For aftermarket use only |

**IDS No.:** 70 **Rev.:** 1 **IC Date:** 07/07/2015

**Modifier:**  
**Engine Model:** O-360-A1A  
**Power:** 180 HP @ 2700 RPM  
**Placard/Restr:** Avoid continuous operation between 2000 and 2250 RPM.

#### **Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 31.0 +-0.5  
**Cwt Angle:**

**Non-HPI Governor:**

### AEROSPATIALE (MORANE SAULNIER)

**Model:** MS 894A, MS 894E  
**Trade Name:** RALLYE MINERVA 220, MS 894E  
**Aircraft T.C./STC:** 7A14  
**Propeller Model:** HC-C2YF-1B(F)  
**Propeller T.C.:** P-920  
**Blade Model(s):** F8459-4  
F8459A-4

**Prop Diameter:** 80.0" TO 76.0"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 11.5 +-0.2  
**Stud Protrusion** 1.450 +-0.030

#### Non-HPI Items:

**Non-HPI Spinner:** SOCATA

#### Hartzell Approved Items:

| Item Type     | Item Number    | Description              | Quantity | Qty Per | Comments                 |
|---------------|----------------|--------------------------|----------|---------|--------------------------|
| PROPELLER     | C2F00318       | HC-C2YF-1BF/F8459-4/SM14 | 1        | A/C     |                          |
| BLADE         | F8459-4        | PCP:BLADE UNIT, ALUMINUM | 2        | Prop    |                          |
| BLADE         | F8459A-4       | PCP:BLADE UNIT, ALUMINUM | 2        | Prop    |                          |
| SPIN MTG KIT  | A-2476-14      | SPINNER - MTG KIT        | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2429-4       | STUD, MOUNTING, 1/2-20   | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-C2YF-1BF-OH | O/H KIT                  | 1        | Prop    | For aftermarket use only |

**IDS No.:** 71 **Rev.:** 1 **IC Date:** 07/07/2015

**Modifier:**  
**Engine Model:** 6A-350-C1  
**Power:** 220 HP @ 2800 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 31.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:** WOODWARD

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**AEROSPATIALE (SOCATA)**

**Model:** TB-9  
**Trade Name:** TAMPICO  
**Aircraft T.C./STC:** A51EU  
**Propeller Model:** HC-C2YL-1BF  
**Propeller T.C.:** P-920  
**Blade Model(s):** F7663A-4  
**Prop Diameter:** 72" TO 70"

**Prop Setup:**

**Ref. Radius:** 27  
**Reverse Angle:** NA  
**Low Pitch Angle:** 11.0 +-0.2  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:** SOCATA

**IDS No.:** 72      **Rev.:** -      **DM Date:** 04/18/1993

**Modifier:**  
**Engine Model:** O-320-D1A  
**Power:** 160 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 26.1 +-0.5  
**Cwt Angle:**

**Hartzell Approved Items:**

| Item Type     | Item Number | Description                      | Quantity | Qty Per | Comments |
|---------------|-------------|----------------------------------|----------|---------|----------|
| BLADE         | F7663A-4    | PCP:BLADE UNIT, ALUMINUM         | 2        | Prop    |          |
| GOVERNOR      | F4-18       | IDS Item                         | 1        | A/C     |          |
| GOVERNOR      | F4-27       | GOVERNOR ASSEMBLY, F-4-()        | 1        | A/C     |          |
| GOVERNOR      | F4-4A       | GOVERNOR ASSEMBLY, F-4-()        | 1        | A/C     |          |
| GOVERNOR      | F4-4AZ      | GOVERNOR ASSEMBLY, F-4-()        | 1        | A/C     |          |
| MTG BOLT/STUD | A-2247-1    | STUD, MOUNTING, 7/16-20, DRILLED | 6        | Prop    |          |

**Non-HPI Governor:**

**AEROSPATIALE (SOCATA)**

**Model:** TB-21  
**Trade Name:** TRINIDAD TC  
**Aircraft T.C./STC:** A51EU  
**Propeller Model:** HC-C2YK-1BF  
**Propeller T.C.:** P-920  
**Blade Model(s):** F8477-4  
 F8477K-4  
**Prop Diameter:** 80.0" TO 78.0"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 15.0 +-0.2  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:** SOCATA

**IDS No.:** 1350      **Rev.:** -      **DM Date:** 04/02/2003

**Modifier:**  
**Engine Model:** TIO-540-AB1AD  
**Power:** 250 HP @ 2575 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 31.0 +-0.5  
**Cwt Angle:**

**Hartzell Approved Items:**

| Item Type     | Item Number   | Description                    | Quantity | Qty Per | Comments        |
|---------------|---------------|--------------------------------|----------|---------|-----------------|
| BLADE         | F8477-4       | PCP:BLADE UNIT, ALUM [1,1,1]   | 2        | Prop    |                 |
| BLADE         | F8477K-4      | IDS ITEM, BLADE, 4E2292-3 BOOT | 2        | Prop    |                 |
| SPIN MTG KIT  | A-2476-27     | SPINNER - MTG KIT              | 1        | Prop    |                 |
| DE-ICER       | 7931-4E2292-3 | IDS Item                       | 1        | Blade   | Blade Component |
| DE-ICE KIT PR | 7931-67-410-1 | IDS ITEM - DE-ICE KIT          | 1        | Prop    |                 |
| MTG BOLT/STUD | A-2067        | STUD, MOUNTING, 1/2-20         | 6        | Prop    |                 |

**Non-HPI Governor:** WOODWARD

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### AEROSPATIALE (SOCATA)

**Model:** TB-30  
**Trade Name:** EPSILON  
**Aircraft T.C./STC:** Unknown  
**Propeller Model:** HC-C2YR-4CF  
**Propeller T.C.:** P-920  
**Blade Model(s):** FC8475-6\*3  
**Prop Diameter:** 78" TO 76"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 14.0 +-0.1  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:** SOCATA

**IDS No.:** 77      **Rev.:** 2      **IC Date:** 07/07/2015

**Modifier:**  
**Engine Model:** AEIO-540-L1B5D  
**Power:** 300 HP @ 2700 RPM  
**Placard/Restr:**

**Notes:** Reference Manual 115N for Airworthiness Limitations.

**Startlock Angle:** NA  
**Feather/High Angle:** 35.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:** WOODWARD

#### Hartzell Approved Items:

| Item Type     | Item Number    | Description                   | Quantity | Qty Per | Comments                 |
|---------------|----------------|-------------------------------|----------|---------|--------------------------|
| PROPELLER     | C2R00235       | HC-C2YR-4CF/FC8475-6[*3]/SM8  | 1        | A/C     |                          |
| BLADE         | FC8475-6*3     | PCP:BLADE UNIT, B-3202H-6 CWT | 2        | Prop    |                          |
| GOVERNOR      | V4-3           | GOVERNOR ASSEMBLY, V-4-()     | 1        | A/C     |                          |
| SPIN MTG KIT  | A-2476-8       | SPINNER - MTG KIT             | 1        | Prop    |                          |
| COUNTERWEIGHT | B-3202H-6      | PCP:COUNTERWEIGHT             | 1        | Blade   | Blade Component          |
| MTG BOLT/STUD | A-2067         | STUD, MOUNTING, 1/2-20        | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-C2YR-4CF-OH | O/H KIT                       | 1        | Prop    | For aftermarket use only |

### AEROSPATIALE (SOCATA)

**Model:** TB-10  
**Trade Name:** TOBAGO  
**Aircraft T.C./STC:** A51EU  
**Propeller Model:** HC-C2YK-1BF  
**Propeller T.C.:** P-920  
  
**Blade Model(s):** F7666A-2  
**Prop Diameter:** 74.0" TO 72.0"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.5 +-0.2  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:** SOCATA

**IDS No.:** 73      **Rev.:** 1      **IC Date:** 07/07/2015

**Modifier:**  
**Engine Model:** O-360-A1AD  
**Power:** 180 HP @ 2700 RPM  
**Placard/Restr:** Avoid continuous operation between 2000 and 2250 RPM.

**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 31.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

#### Hartzell Approved Items:

| Item Type     | Item Number    | Description               | Quantity | Qty Per | Comments                 |
|---------------|----------------|---------------------------|----------|---------|--------------------------|
| PROPELLER     | C2K00050       | HC-C2YK-1BF/F7666A-2/SM27 | 1        | A/C     |                          |
| BLADE         | F7666A-2       | PCP:BLADE UNIT, ALUMINUM  | 2        | Prop    |                          |
| GOVERNOR      | F4-26          | GOVERNOR ASSEMBLY, F-4-() | 1        | A/C     |                          |
| SPIN MTG KIT  | A-2476-27      | SPINNER - MTG KIT         | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2067         | STUD, MOUNTING, 1/2-20    | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-C2YK-1BF-OH | O/H KIT                   | 1        | Prop    | For aftermarket use only |

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**AEROSPATIALE (SOCATA)**

IDS No.: 74      Rev.: 1      IC    Date: 07/07/2015

**Model:** TB-20  
**Trade Name:** TRINIDAD  
**Aircraft T.C./STC:** A51EU  
**Propeller Model:** HC-C2YK-1BF  
**Propeller T.C.:** P-920  
**Blade Model(s):** F8477-4  
                                  F8477K-4  
**Prop Diameter:** 80" TO 78"

**Modifier:**  
**Engine Model:** IO-540-C4D5D  
**Power:** 250 HP @ 2575 RPM  
**Placard/Restr:**  
**Notes:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 15.0 +-0.2  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 31.0 +-1.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:** SOCATA

**Non-HPI Governor:** WOODWARD

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>             | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|--------------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | C2K00170           | HC-C2YK-1BF/F8477-4/SM27       | 1               | A/C            |                          |
| BLADE            | F8477-4            | PCP:BLADE UNIT, ALUM [1,1,1]   | 2               | Prop           |                          |
| BLADE            | F8477K-4           | IDS ITEM, BLADE, 4E2292-3 BOOT | 2               | Prop           |                          |
| SPIN MTG KIT     | A-2476-27          | SPINNER - MTG KIT              | 1               | Prop           |                          |
| DE-ICER          | 7931-4E2292-3      | IDS Item                       | 1               | Blade          | Blade Component          |
| DE-ICE KIT PR    | 7931-67-410-1      | IDS ITEM - DE-ICE KIT          | 1               | Prop           |                          |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20         | 6               | Prop           |                          |
| OVERHAUL KIT     | HC-C2YK-1BF-OH     | O/H KIT                        | 1               | Prop           | For aftermarket use only |

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AEROSPATIALE (SOCATA)

IDS No.: 1699 Rev.: 3 IC Date: 07/16/2015

Model: TB-20  
 Trade Name: TRINIDAD  
 Aircraft T.C./STC: STC SA01192CH  
 Propeller Model: HC-C3YR-1RF  
 Propeller T.C.: P25EA  
 Blade Model(s): F7693F\*2  
 F7693FB\*1  
 Prop Diameter: 78-76

Modifier: HARTZELL PROPELLER  
 Engine Model: IO-540-C4D5D  
 Power: 250 HP @ 2575 RPM  
 Placard/Restr: None  
 Notes: Alcohol de-ice system; Check for balance weight/travel tube interference during assembly on props with alcohol de-ice.

### Prop Setup:

Ref. Radius: 30  
 Reverse Angle: NA  
 Low Pitch Angle: 13.0 +-0.2  
 Stud Protrusion

Startlock Angle: NA  
 Feather/High Angle: 31.0 +-1.0  
 Cwt Angle:

### Non-HPI Items:

Non-HPI Spinner:

Non-HPI Governor: WOODWARD

### Hartzell Approved Items:

| Item Type     | Item Number    | Description                   | Quantity | Qty Per | Comments                 |
|---------------|----------------|-------------------------------|----------|---------|--------------------------|
| PROPELLER     | C3R00043       | HC-C3YR-1RF/F7693F[*2]/SM6    | 1        | A/C     |                          |
| PROPELLER     | C3R00043KD     | HC-C3YR-1RF/F7693F[*2]/SM6    | 1        | A/C     |                          |
| PROPELLER     | C3R00043SKDTP  | C3R00043/SM6/A-2295-3P        | 1        | A/C     |                          |
| PROPELLER     | C3R00043STP    | C3R00043/SM6/A-2295-3P        | 1        | A/C     |                          |
| PROPELLER     | C3R00044       | HC-C3YR-1RF/F7693FB[*1]/SM6   | 1        | A/C     |                          |
| PROPELLER     | C3R00044KD     | HC-C3YR-1RF/F7693FB[*1]/SM6   | 1        | A/C     |                          |
| PROPELLER     | C3R00044SKDTP  | C3R00044/SM6/A-2295-3P/C-4686 | 1        | A/C     |                          |
| PROPELLER     | C3R00044STP    | C3R00044/SM6/A-2295-3P/C-4686 | 1        | A/C     |                          |
| BLADE         | F7693F*2       | PCP:BLADE UNIT, ALUM [6,1,1]  | 3        | Prop    |                          |
| BLADE         | F7693FB*1      | PCP:BLADE UNIT, ALUM [6,1,1]  | 3        | Prop    |                          |
| SPINNER       | A-2295-14      | SPINNER ASSEMBLY              | 1        | Prop    |                          |
| SPINNER       | A-2295-3       | SPINNER ASSEMBLY              | 1        | Prop    |                          |
| SPINNER       | A-2295-3P      | SPINNER ASSEMBLY              | 1        | Prop    |                          |
| SPIN MTG KIT  | A-2476-6       | SPINNER - MTG KIT             | 1        | Prop    |                          |
| DE-ICER       | C-2131-7       | BOOT, ANTI-ICING              | 1        | Blade   | Blade Component          |
| DE-ICE KIT PR | C-4686         | ANTI-ICING - KIT              | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2067         | STUD, MOUNTING, 1/2-20        | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-C3YR-1RF-OH | O/H KIT                       | 1        | Prop    | For aftermarket use only |

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AEROSPATIALE (SOCATA)

IDS No.: 75      Rev.: 1      IC      Date: 07/07/2015

**Model:** TB-200  
**Trade Name:** TOBAGO XL  
**Aircraft T.C./STC:** A51EU  
**Propeller Model:** HC-C2YK-1BF  
**Propeller T.C.:** P-920  
**Blade Model(s):** F7666A-2  
**Prop Diameter:** 74" TO 72"

**Modifier:**  
**Engine Model:** IO-360-A1B6  
**Power:** 200 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.5 +/-0.1  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 31.0 +/-1.0  
**Cwt Angle:**

### Non-HPI Items:

**Non-HPI Spinner:** SOCATA

**Non-HPI Governor:** WOODWARD

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>       | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|--------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | C2K00027           | HC-C2YK-1BF/F7666A-2     | 1               | A/C            |                          |
| BLADE            | F7666A-2           | PCP:BLADE UNIT, ALUMINUM | 2               | Prop           |                          |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20   | 6               | Prop           |                          |
| OVERHAUL KIT     | HC-C2YK-1BF-OH     | O/H KIT                  | 1               | Prop           | For aftermarket use only |

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**AEROSPATIALE (SOCATA)**

**Model:** TBM 700, TBM 850  
**Trade Name:**  
**Aircraft T.C./STC:** A60EU  
**Propeller Model:** HC-E4N-3  
**Propeller T.C.:** P10NE

**IDS No.:** 79      **Rev.:** 4      **IC Date:** 02/16/2016

**Modifier:**

**Engine Model:** PT6A-64, PT6A-66D

**Power:** 700 HP @ 2000 RPM

**Placard/Restr:** Minimum gross weight for aircraft is 3970 lbs. and maximum of 6581. Stabilized ground operation between 450 and 1000 RPM is prohibited. Stabilized ground operation below 450 RPM is permissible in feather.

**Blade Model(s):** E9083SK  
**Prop Diameter:** 91.0" TO 90.0"

**Notes:** Engine PT6A-66D: 850 HP / 2000 RPM

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** -11.0 +/-0.5  
**Low Pitch Angle:** 21.0 +/-0.1  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 86.0 +/-0.5  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>             | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|--------------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | E4N00020           | HC-E4N-3/E9083SK               | 1               | A/C            |                          |
| PROPELLER        | E4N00020KD         | HC-E4N-3/E9083SK               | 1               | A/C            |                          |
| PROPELLER        | E4N00020S          | HC-E4N-3/E9083SK/D-630-1P      | 1               | A/C            |                          |
| PROPELLER        | E4N00020SKD        | HC-E4N-3/E9083SK/D-630-1P      | 1               | A/C            |                          |
| PROPELLER        | E4N00021           | HC-E4N-3/E9083SK/BULK/DEICE    | 1               | A/C            |                          |
| PROPELLER        | E4N00021KD         | HC-E4N-3/E9083SK/BULK/DEICE    | 1               | A/C            |                          |
| BLADE            | E9083SK            | PCP:BLADE UNIT, ALUMINUM       | 4               | Prop           |                          |
| SPINNER          | D-630-1            | SPINNER ASSEMBLY               | 1               | Prop           |                          |
| SPINNER          | D-630-1P           | SPINNER ASSEMBLY               | 1               | Prop           |                          |
| SPIN MTG KIT     | A-2070-7           | SCREW, 1/4-28, BUTTON HEAD     | 8               | Prop           |                          |
| COUNTERWEIGHT    | C-472-2            | PCP:COUNTERWEIGHT              | 1               | Blade          |                          |
| DE-ICER          | 102643             | DE-ICE BOOT                    | 1               | Blade          | Supersedes 4H2271-10     |
| DE-ICE KIT PR    | 106308             | DE-ICE KIT (ONE PROP)          | 1               | Prop           | Supersedes 7931-67-600-1 |
| DE-ICE KIT PR    | 7931-67-600-1      | DE-ICE KIT (ONE PROP)          | 1               | Prop           | Superseded by 106308     |
| MTG BOLT/STUD    | B-3339-1           | BOLT,MOUNTING,9/16-18,12 POINT | 8               | Prop           |                          |
| MISC ACCES       | A-3044             | BLOCK, BETA FEEDBACK- ASSEMBLY | 1               | Prop           |                          |
| OVERHAUL KIT     | HC-E4N-3-OH        | O/H KIT                        | 1               | Prop           | For aftermarket use only |

# HARTZELL

## APPLICATION GUIDE 159

### AEROSTAR AIRCRAFT

**Model:** PA-60-600, 601, 601P, 602P (LEFT SIDE)  
**Trade Name:** AEROSTAR  
**Aircraft T.C./STC:** STC-SA1658NM  
**Propeller Model:** HC-C4YR-2  
**Propeller T.C.:** P52GL  
**Blade Model(s):** FC6660  
 FC6660K  
**Prop Diameter:** 70"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.0 +-0.1  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 2517      **Rev.:** 1      **D**      **Date:** 09/09/2011

**Modifier:** MACHEN INC.  
**Engine Model:** TIO-540-J2BD-MA  
**Power:** 350 HP @ 2575 RPM  
**Placard/Restr:**

**Notes:** Reference Manual 115N for Airworthiness Limitations.

**Startlock Angle:** 18.5 +-1.5

**Feather/High Angle:** 80.0 +-0.5

**Cwt Angle:**

**Non-HPI Governor:**

#### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>             | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>           |
|------------------|--------------------|--------------------------------|-----------------|----------------|---------------------------|
| BLADE            | FC6660             | PCP:BLADE UNIT, ALUMINUM       | 4               | Prop           |                           |
| BLADE            | FC6660K            | BLADE UNIT, ALUMINUM,4E2271-10 | 4               | Prop           |                           |
| SPINNER          | D-4511             | SPINNER ASSEMBLY               | 1               | Prop           |                           |
| SPINNER          | D-4511-P           | SPINNER ASSEMBLY               | 1               | Prop           |                           |
| GOVERNOR         | F6-24              | GOVERNOR ASSEMBLY, F-6-( )     | 1               | Prop           |                           |
| SPIN MTG KIT     | A-2476-20          | SPINNER - MTG KIT              | 1               | Prop           |                           |
| COUNTERWEIGHT    | B-3202H-6          | PCP:COUNTERWEIGHT              | 1               | Blade          |                           |
| DE-ICER          | 4H2271-10          | DE-ICE BOOT                    | 1               | Blade          | Supersedes 7931-4E2271-10 |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20         | 6               | Prop           |                           |



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### AEROSTAR AIRCRAFT

**Model:** PA-60-601  
**Trade Name:** AEROSTAR  
**Aircraft T.C./STC:** SA1658NM  
**Propeller Model:** HC-C3YR-2LUF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** FJC8468DB-14\*1  
**Prop Diameter:** 72"

**IDS No.:** 2518      **Rev.:** 1      **IC Date:** 07/15/2015

**Modifier:** MACHEN INC.  
**Engine Model:** LTIO-540-U2A  
**Power:** 350 HP @ 2500 RPM  
**Placard/Restr:**

**Notes:** Special Instructions: Install (1 ea.) B-3852-6-0 Tie Strap per blade IAW BFG 92-018. Boots and Tie Straps only installed.

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 18.0 +/-0.1  
**Stud Protrusion**

**Startlock Angle:** 23.5 +/-1.5

**Feather/High Angle:** 77.9 +/-0.5

**Cwt Angle:**

#### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:**

#### Hartzell Approved Items:

| Item Type     | Item Number     | Description                   | Quantity | Qty Per | Comments                 |
|---------------|-----------------|-------------------------------|----------|---------|--------------------------|
| PROPELLER     | C3R00204        | HC-C3YR-2LUF/FJC8468DB-14[*1] | 2        | A/C     |                          |
| BLADE         | FJC8468DB-14*1  | PCP:BLADE UNIT, B-3202H-2     | 3        | Prop    |                          |
| SPINNER       | C-3258-L        | SPINNER ASSEMBLY              | 1        | Prop    |                          |
| SPINNER       | C-3258-LP       | SPINNER ASSEMBLY              | 1        | Prop    |                          |
| COUNTERWEIGHT | B-3202H-2       | PCP:COUNTERWEIGHT             | 1        | Blade   |                          |
| DE-ICER       | 4H1601-4        | DE-ICE BOOT                   | 1        | Blade   | Supersedes 7931-4E1601-4 |
| MTG BOLT/STUD | A-2067          | STUD, MOUNTING, 1/2-20        | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-C3YR-2LUF-OH | O/H KIT                       | 1        | Prop    | For aftermarket use only |

### AEROSTAR AIRCRAFT CORP.

**Model:** 360  
**Trade Name:** AEROSTAR  
**Aircraft T.C./STC:** A11WE  
**Propeller Model:** HC-92WK-2B  
**Propeller T.C.:**  
**Blade Model(s):** W8447-12R  
**Prop Diameter:** 71.6" TO 71"

**IDS No.:** 999      **Rev.:** 1      **D Date:** 01/10/2011

**Modifier:**  
**Engine Model:** IO-360-E1A  
**Power:** 180 HP @ 2700 RPM  
**Placard/Restr:**

**Notes:**

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 14.0 +/-0.2  
**Stud Protrusion**

**Startlock Angle:**

**Feather/High Angle:** 84.0 +/-0.5

**Cwt Angle:** Positive

#### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:** WOODWARD

#### Hartzell Approved Items:

| Item Type | Item Number | Description          | Quantity | Qty Per | Comments |
|-----------|-------------|----------------------|----------|---------|----------|
| BLADE     | W8447-12R   | BLADE UNIT, ALUMINUM | 2        | Prop    |          |
| SPINNER   | 835-30      | SPINNER ASSEMBLY     | 1        | Prop    |          |

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AEROSTAR AIRCRAFT CORP.

**Model:** 400  
**Trade Name:** AEROSTAR  
**Aircraft T.C./STC:** A11WE  
**Propeller Model:** HC-C3YR-2  
**Propeller T.C.:** P25EA  
**Blade Model(s):** FC7663-6  
**Prop Diameter:** 72" TO 71"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 10.5 +-0.2  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

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**IDS No.:** 1000      **Rev.:** -      **DM Date:** 10/01/1992

**Modifier:**  
**Engine Model:** IO-360-D1A  
**Power:** 200 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** 16.0 +-1.5  
**Feather/High Angle:** 79.0 +-0.5  
**Cwt Angle:**

**Non-HPI Governor:** WOODWARD

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>       | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|--------------------------|-----------------|----------------|-----------------|
| BLADE            | FC7663-6           | PCP:BLADE UNIT, ALUMINUM | 3               | Prop           |                 |
| SPINNER          | C-3258             | SPINNER ASSEMBLY         | 1               | Prop           |                 |
| COUNTERWEIGHT    | B-3202H-5          | PCP:COUNTERWEIGHT        | 1               | Blade          | Blade Component |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20   | 6               | Prop           |                 |

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**AEROSTAR AIRCRAFT CORP.**

IDS No.: 875      Rev.: 1      IC      Date: 07/15/2015

**Model:** PA-60-600, 601, 601P  
**Trade Name:** AEROSTAR  
**Aircraft T.C./STC:** A17WE  
**Propeller Model:** HC-C3YR-2UF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** FC8468-8R  
 FC8468B-8R\*2  
**Prop Diameter:** 78" NO CUT OFF

**Modifier:**  
**Engine Model:** IO-540-K1F5,-G1B5,-S1A5,-K1J5,-P1A5  
**Power:** 290 HP @ 2575 RPM  
**Placard/Restr:**  
**Notes:** Gov

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 14.0 +-0.1  
**Stud Protrusion**

**Startlock Angle:** 19.5 +-1.5  
**Feather/High Angle:** 82.5 +-1.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>             | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|--------------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | C3R00219           | HC-C3YR-2UF/FC8468-8R          | 2               | A/C            |                          |
| PROPELLER        | C3R00219KD         | HC-C3YR-2UF/FC8468-8R          | 2               | A/C            |                          |
| BLADE            | FC8468-8R          | PCP:BLADE UNIT, ALUM B-3202H-2 | 3               | Prop           |                          |
| BLADE            | FC8468B-8R*2       | PCP:BLADE UNIT, B-3202H-2 CWT  | 3               | Prop           |                          |
| SPINNER          | C-3258-P           | SPINNER ASSEMBLY               | 1               | Prop           |                          |
| GOVERNOR         | F6-35              | GOVERNOR ASSEMBLY, F-6-( )     | 1               | Prop           |                          |
| GOVERNOR         | F6-36              | IDS Item                       | 1               | Prop           |                          |
| GOVERNOR         | F6-5A              | GOVERNOR ASSEMBLY, F-6-( )     | 1               | Prop           |                          |
| GOVERNOR         | F8-35              | GOVERNOR ASSEMBLY, F-8-( )     | 1               | Prop           |                          |
| GOVERNOR         | F8-45              | GOVERNOR ASSEMBLY, F-8-( )     | 1               | Prop           |                          |
| COUNTERWEIGHT    | B-3202H-2          | PCP:COUNTERWEIGHT              | 1               | Blade          |                          |
| DE-ICER          | 4H1188-4           | DE-ICE BOOT                    | 1               | Blade          | Supersedes 7931-4E1188-4 |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20         | 6               | Prop           |                          |
| OVERHAUL KIT     | HC-C3YR-2UF-OH     | O/H KIT                        | 1               | Prop           | For aftermarket use only |

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**AEROSTAR AIRCRAFT CORP.**

**Model:** PA-60-600, 601, 601P  
**Trade Name:** AEROSTAR  
**Aircraft T.C./STC:** STC-SA4307NM  
**Propeller Model:** HC-C3YR-2UF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** FC8468D-14  
 FC8468DB-14\*1  
**Prop Diameter:** 72"

**IDS No.:** 884      **Rev.:** 1      **IC Date:** 07/15/2015

**Modifier:** MACHEN INC.  
**Engine Model:** IO-540-K1F5, -K1J5, S1A5  
**Power:** 300 HP @ 2700 RPM  
**Placard/Restr:**

**Notes:** Special instructions: "Install (1 ea)B-3852-6-0 Tie Strap per blade IAW BFG 92-018. Boots & Tie Straps only installed."

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 14.1 +-0.1  
**Stud Protrusion**

**Startlock Angle:** 19.6 +-1.5

**Feather/High Angle:** 77.9 +-0.5

**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>            | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|-------------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | C3R00225           | HC-C3YR-2UF/FC8468DB-14[*1]   | 2               | A/C            |                          |
| BLADE            | FC8468D-14         | PCP:BLADE UNIT, B-3202H-2 CWT | 3               | Prop           |                          |
| BLADE            | FC8468DB-14*1      | PCP:BLADE UNIT, B-3202H-2     | 3               | Prop           |                          |
| SPINNER          | C-3258-P           | SPINNER ASSEMBLY              | 1               | Prop           |                          |
| COUNTERWEIGHT    | B-3202H-2          | PCP:COUNTERWEIGHT             | 1               | Blade          | Blade Component          |
| DE-ICER          | 4H1188-4           | DE-ICE BOOT                   | 1               | Blade          | Supercedes 7931-4E1188-4 |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20        | 6               | Prop           |                          |
| OVERHAUL KIT     | HC-C3YR-2UF-OH     | O/H KIT                       | 1               | Prop           | For aftermarket use only |

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**AEROSTAR AIRCRAFT CORP.**

**Model:** PA-60-600, 601, 601P, 602P  
**Trade Name:** AEROSTAR  
**Aircraft T.C./STC:** STC-SA1658NM  
**Propeller Model:** HC-C3YR-2UF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** FC8468D-14  
 FC8468DB-14\*1  
**Prop Diameter:** 72"

**IDS No.:** 883      **Rev.:** 2      **IC Date:** 10/14/2019

**Modifier:** MACHEN INC.  
**Engine Model:** IO-540-S1A5-MM, -AA1A5-MM  
**Power:** 350 HP @ 2500 RPM  
**Placard/Restr:**

**Notes:** Special Instructions: Install (1 ea.) B-3852-6-0 Tie Strap per blade IAW BFG 92-018. Boots & Tie Straps only installed.

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 18.0 +-0.1  
**Stud Protrusion**

**Startlock Angle:** 23.5 +-1.5

**Feather/High Angle:** 77.9 +-0.5

**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>            | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|-------------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | C3R00217           | HC-C3YR-2UF/FC8468DB-14[*1]   | 2               | A/C            |                          |
| PROPELLER        | C3R00217KD         | HC-C3YR-2UF/FC8468DB-14[*1]   | 2               | A/C            |                          |
| PROPELLER        | C3R00223           | HC-C3YR-2UF/FC8468D-14        | 2               | A/C            |                          |
| BLADE            | FC8468D-14         | PCP:BLADE UNIT, B-3202H-2 CWT | 3               | Prop           |                          |
| BLADE            | FC8468DB-14*1      | PCP:BLADE UNIT, B-3202H-2     | 3               | Prop           |                          |
| SPINNER          | C-3258             | SPINNER ASSEMBLY              | 1               | Prop           |                          |
| SPINNER          | C-3258-P           | SPINNER ASSEMBLY              | 1               | Prop           |                          |
| COUNTERWEIGHT    | B-3202H-2          | PCP:COUNTERWEIGHT             | 1               | Blade          | Blade Component          |
| DE-ICER          | 4H1188-4           | DE-ICE BOOT                   | 1               | Blade          | Supersedes 7931-4E1188-4 |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20        | 6               | Prop           |                          |
| OVERHAUL KIT     | HC-C3YR-2UF-OH     | O/H KIT                       | 1               | Prop           | For aftermarket use only |

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AEROSTAR AIRCRAFT CORP.

**Model:** PA-60-600, 601, 601P, 602P

**Trade Name:** AEROSTAR

**Aircraft T.C./STC:** STC-SA4156NM

**Propeller Model:** HC-C3YR-2UF

**Propeller T.C.:** P25EA

**Blade Model(s):** FC6660D  
FC6660DB

**Prop Diameter:** 68.25" TO 67"

### Prop Setup:

**Ref. Radius:** 30

**Reverse Angle:** NA

**Low Pitch Angle:** 19.5 +-0.2

**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 887      **Rev.:** -      **DM Date:** 10/01/1992

**Modifier:** MERLYN PRODUCTS

**Engine Model:** IO-540-S1A5, -AA1A5

**Power:** 350 HP @ 2500 RPM

**Placard/Restr:**

**Notes:**

**Startlock Angle:** 25.0 +-1.5

**Feather/High Angle:** 75.5 +-0.5

**Cwt Angle:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>       | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|--------------------------|-----------------|----------------|-----------------|
| BLADE            | FC6660D            | PCP:BLADE UNIT, ALUMINUM | 3               | Prop           |                 |
| BLADE            | FC6660DB           | PCP:BLADE UNIT, ALUMINUM | 3               | Prop           |                 |
| SPINNER          | C-3258-P           | SPINNER ASSEMBLY         | 1               | Prop           |                 |
| COUNTERWEIGHT    | B-3202H-6          | PCP:COUNTERWEIGHT        | 1               | Blade          | Blade Component |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20   | 6               | Prop           |                 |

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**AEROSTAR AIRCRAFT CORP.**

**Model:** PA-60-600, -601P, -602P  
**Trade Name:** AEROSTAR  
**Aircraft T.C./STC:** SA 4156NM  
**Propeller Model:** HC-C3YR-2UF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** FC8468B-8R\*2  
**Prop Diameter:** 78" NO CUT OFF

**IDS No.:** 1870      **Rev.:** 1      **IC Date:** 07/15/2015

**Modifier:** MERLYN PRODUCTS  
**Engine Model:** IO-540-K1F5,-G1B5,-S1A5,-K1J5,-P1A5  
**Power:** 290 HP @ 2575 RPM  
**Placard/Restr:**

**Notes:** Includes Intercooler/Turbocharger package

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 14.0 +-0.1  
**Stud Protrusion**

**Startlock Angle:** 19.5 +-1.5  
**Feather/High Angle:** 82.5 +-1.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>            | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|-------------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | C3R00221           | HC-C3YR-2UF/FC8468B-8R[*2]    | 2               | A/C            |                          |
| BLADE            | FC8468B-8R*2       | PCP:BLADE UNIT, B-3202H-2 CWT | 3               | Prop           |                          |
| SPINNER          | C-3258-P           | SPINNER ASSEMBLY              | 1               | Prop           |                          |
| GOVERNOR         | F6-35              | GOVERNOR ASSEMBLY, F-6-( )    | 1               | Prop           |                          |
| GOVERNOR         | F6-36              | IDS Item                      | 1               | Prop           |                          |
| GOVERNOR         | F6-5A              | GOVERNOR ASSEMBLY, F-6-( )    | 1               | Prop           |                          |
| GOVERNOR         | F8-35              | GOVERNOR ASSEMBLY, F-8-( )    | 1               | Prop           |                          |
| GOVERNOR         | F8-45              | GOVERNOR ASSEMBLY, F-8-( )    | 1               | Prop           |                          |
| COUNTERWEIGHT    | B-3202H-2          | PCP:COUNTERWEIGHT             | 1               | Blade          |                          |
| DE-ICER          | 4H1188-4           | DE-ICE BOOT                   | 1               | Blade          | Supercedes 7931-4E1188-4 |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20        | 6               | Prop           |                          |
| OVERHAUL KIT     | HC-C3YR-2UF-OH     | O/H KIT                       | 1               | Prop           | For aftermarket use only |

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**AEROSTAR AIRCRAFT CORP.**

**Model:** PA-60-600, 601, 601P, 602P

**Trade Name:** AEROSTAR

**Aircraft T.C./STC:** STC-SA4156NM

**Propeller Model:** HC-C3YR-2UF, -2LUF

**Propeller T.C.:** P25EA

**Blade Model(s):** FC6660D  
FC6660DB  
FJC6660D  
FJC6660DB

**Prop Diameter:** 68.25" TO 67"

### Prop Setup:

**Ref. Radius:** 30

**Reverse Angle:** NA

**Low Pitch Angle:** 19.5 +/-0.2

**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 886      **Rev.:** -      **DM Date:** 09/26/2006

**Modifier:** MERLYN PRODUCTS

**Engine Model:** TIO-540-J2BD, LTIO-540-J2BD

**Power:** 350 HP @ 2575 RPM

**Placard/Restr:**

**Notes:**

**Startlock Angle:** 25.0 +/-1.5

**Feather/High Angle:** 75.5 +/-0.5

**Cwt Angle:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>       | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|--------------------------|-----------------|----------------|--------------------------|
| BLADE            | FC6660D            | PCP:BLADE UNIT, ALUMINUM | 3               | Prop           |                          |
| BLADE            | FC6660DB           | PCP:BLADE UNIT, ALUMINUM | 3               | Prop           |                          |
| BLADE            | FJC6660D           | PCP:BLADE UNIT, ALUMINUM | 3               | Prop           |                          |
| BLADE            | FJC6660DB          | PCP:BLADE UNIT, ALUMINUM | 3               | Prop           |                          |
| SPINNER          | C-3258-P           | SPINNER ASSEMBLY         | 1               | Prop           |                          |
| COUNTERWEIGHT    | B-3202H-6          | PCP:COUNTERWEIGHT        | 1               | Blade          | Blade Component          |
| DE-ICER          | 4H1601-4           | DE-ICE BOOT              | 1               | Blade          | Supercedes 7931-4E1601-4 |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20   | 6               | Prop           |                          |



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**AEROSTAR AIRCRAFT CORP.**

**Model:** PA-60-600, 601, 601P, 602P  
**Trade Name:** AEROSTAR  
**Aircraft T.C./STC:** STC-SA980NW  
**Propeller Model:** HC-C3YR-2UF, -2LUF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** FC8468D-14  
 FJC8468D-14\*1  
**Prop Diameter:** 72" TO 71"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 16.1 +-0.1  
**Stud Protrusion**

**IDS No.:** 880 **Rev.:** - **DM Date:** 06/21/2004

**Modifier:** MACHEN INC.  
**Engine Model:** TIO-540-J2BD, LTIO-540-J2BD  
**Power:** 350 HP @ 2575 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** 21.6 +-1.5  
**Feather/High Angle:** 77.9 +-0.5  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type     | Item Number   | Description                   | Quantity | Qty Per | Comments |
|---------------|---------------|-------------------------------|----------|---------|----------|
| BLADE         | FC8468D-14    | PCP:BLADE UNIT, B-3202H-2 CWT | 3        | Prop    |          |
| BLADE         | FJC8468D-14*1 | PCP:BLADE UNIT, B-3202H-2     | 3        | Prop    |          |
| SPINNER       | C-3258-LP     | SPINNER ASSEMBLY              | 1        | Prop    |          |
| SPINNER       | C-3258-P      | SPINNER ASSEMBLY              | 1        | Prop    |          |
| COUNTERWEIGHT | B-3202H-2     | PCP:COUNTERWEIGHT             | 1        | Blade   |          |
| MTG BOLT/STUD | A-2067        | STUD, MOUNTING, 1/2-20        | 6        | Prop    |          |

**AEROSTAR AIRCRAFT CORP.**

**Model:** PA-60-600, 601, 601P, 602P (RIGHT SIDE)  
**Trade Name:** AEROSTAR  
**Aircraft T.C./STC:** STC-SA1658NM  
**Propeller Model:** HC-C4YR-2L  
**Propeller T.C.:** P52GL  
**Blade Model(s):** FJC6660  
 FJC6660K  
**Prop Diameter:** 70"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.0 +-0.1  
**Stud Protrusion**

**IDS No.:** 885 **Rev.:** 1 **D Date:** 09/09/2011

**Modifier:** MACHEN INC.  
**Engine Model:** LTIO-540-J2BD-MA  
**Power:** 350 HP @ 2575 RPM  
**Placard/Restr:**  
**Notes:** Reference Manual 115N for Airworthiness Limitations.

**Startlock Angle:** 18.5 +-1.5  
**Feather/High Angle:** 80.0 +-0.5  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type     | Item Number | Description                    | Quantity | Qty Per | Comments                  |
|---------------|-------------|--------------------------------|----------|---------|---------------------------|
| BLADE         | FJC6660     | PCP:BLADE UNIT, ALUMINUM       | 4        | Prop    |                           |
| BLADE         | FJC6660K    | PCP:BLADE UNIT, ALUM 4H2200-10 | 4        | Prop    |                           |
| SPINNER       | D-4511-L    | SPINNER ASSEMBLY               | 1        | A/C     |                           |
| SPINNER       | D-4511-LP   | SPINNER ASSEMBLY               | 1        | Prop    |                           |
| GOVERNOR      | F8-48       | GOVERNOR ASSEMBLY, F-8-( )     | 1        | Prop    | Right side                |
| SPIN MTG KIT  | A-2476-20   | SPINNER - MTG KIT              | 1        | Prop    |                           |
| COUNTERWEIGHT | B-3202H-6   | PCP:COUNTERWEIGHT              | 1        | Blade   | Blade Component           |
| DE-ICER       | 4H2200-10   | DE-ICE BOOT                    | 1        | Blade   | Supersedes 7931-4E2200-10 |
| MTG BOLT/STUD | A-2067      | STUD, MOUNTING, 1/2-20         | 6        | Prop    |                           |

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**AEROSTAR AIRCRAFT CORP.**

**Model:** PA-60-601P  
**Trade Name:** AEROSTAR  
**Aircraft T.C./STC:** STC-SA980NW  
**Propeller Model:** HC-C3YR-2UF, -2LUF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** FC8468-10Q  
FJC8468-10Q  
**Prop Diameter:** 76"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 14.0 +-0.1  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 882      **Rev.:** -      **DM Date:** 05/27/2004

**Modifier:** MACHEN INC.  
**Engine Model:** TIO-540-R2AD, LTIO-540-R2AD  
**Power:** 350 HP @ 2575 RPM  
**Placard/Restr:**  
**Notes:** Right 4E1601-3@4.00

**Startlock Angle:** 19.5 +-1.5  
**Feather/High Angle:** 82.5 +-0.5  
**Cwt Angle:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>         | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|----------------------------|-----------------|----------------|-----------------|
| BLADE            | FC8468-10Q         | PCP:BLADE UNIT, ALUMINUM   | 3               | Prop           |                 |
| BLADE            | FJC8468-10Q        | PCP:BLADE UNIT, ALUMINUM   | 3               | Prop           |                 |
| SPINNER          | C-3258-LP          | SPINNER ASSEMBLY           | 1               | Prop           |                 |
| SPINNER          | C-3258-P           | SPINNER ASSEMBLY           | 1               | Prop           |                 |
| GOVERNOR         | F6-24              | GOVERNOR ASSEMBLY, F-6-( ) | 1               | Prop           |                 |
| GOVERNOR         | F8-48L             | GOVERNOR ASSEMBLY, F-8-( ) | 1               | Prop           |                 |
| COUNTERWEIGHT    | B-3202H-2          | PCP:COUNTERWEIGHT          | 1               | Blade          | Blade Component |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20     | 6               | Prop           |                 |

**Non-HPI Governor:**

**AEROSTAR AIRCRAFT CORP.**

**Model:** PA-60-602P  
**Trade Name:** AEROSTAR  
**Aircraft T.C./STC:** A17WE  
**Propeller Model:** HC-C3YK-2UF  
**Propeller T.C.:**  
**Blade Model(s):** FC8468-8R  
FC8468B-8R\*2  
**Prop Diameter:** 78" NO CUT OFF

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 15.9 +-0.1  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 876      **Rev.:** -      **DM Date:** 10/01/1992

**Modifier:**  
**Engine Model:** IO-540-AA1A5  
**Power:** 290 HP @ 2425 RPM  
**Placard/Restr:**  
**Notes:** Gov

**Startlock Angle:** 21.4 +-1.5  
**Feather/High Angle:** 82.5 +-1.0  
**Cwt Angle:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>             | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|--------------------------------|-----------------|----------------|-----------------|
| BLADE            | FC8468-8R          | PCP:BLADE UNIT, ALUM B-3202H-2 | 3               | Prop           |                 |
| BLADE            | FC8468B-8R*2       | PCP:BLADE UNIT, B-3202H-2 CWT  | 3               | Prop           |                 |
| SPINNER          | C-3258-P           | SPINNER ASSEMBLY               | 1               | Prop           |                 |
| GOVERNOR         | F6-60Z             | GOVERNOR ASSEMBLY, F-6-( )     | 1               | Prop           |                 |
| GOVERNOR         | F8-60Z             | GOVERNOR ASSEMBLY, F-8-( )     | 1               | Prop           |                 |
| COUNTERWEIGHT    | B-3202H-2          | PCP:COUNTERWEIGHT              | 1               | Blade          | Blade Component |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20         | 6               | Prop           |                 |

**Non-HPI Governor:**

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**AEROSTAR AIRCRAFT CORP.**

**IDS No.:** 879      **Rev.:** -      **DM Date:** 09/26/2006

**Model:** PA-60-602P  
**Trade Name:** AEROSTAR  
**Aircraft T.C./STC:** STC-SA3589NM  
**Propeller Model:** HC-C3YR-2UF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** FC8468D-14  
 FC8468DB-14\*1  
**Prop Diameter:** 72"

**Modifier:** MACHEN INC.  
**Engine Model:** TIO-540-AA1A5  
**Power:** 305 HP @ 2425 RPM  
**Placard/Restr:**  
**Notes:** Boots/Straps only per C-2359

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 16.7 +-0.1  
**Stud Protrusion**

**Startlock Angle:** 22.2 +-1.5  
**Feather/High Angle:** 77.9 +-0.5  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>            | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|-------------------------------|-----------------|----------------|--------------------------|
| BLADE            | FC8468D-14         | PCP:BLADE UNIT, B-3202H-2 CWT | 3               | Prop           |                          |
| BLADE            | FC8468DB-14*1      | PCP:BLADE UNIT, B-3202H-2     | 3               | Prop           |                          |
| SPINNER          | C-3258-P           | SPINNER ASSEMBLY              | 1               | Prop           |                          |
| COUNTERWEIGHT    | B-3202H-2          | PCP:COUNTERWEIGHT             | 1               | Blade          | Blade Component          |
| DE-ICER          | 4H1188-4           | DE-ICE BOOT                   | 1               | Blade          | Supersedes 7931-4E1188-4 |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20        | 6               | Prop           |                          |

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**AEROSTAR AIRCRAFT CORP.**

IDS No.: 877      Rev.: 1      IC      Date: 07/15/2015

**Model:** PA-60-700P (left side)  
**Trade Name:** AEROSTAR  
**Aircraft T.C./STC:** A17WE  
**Propeller Model:** HC-C3YR-2LUF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** FJC7451  
    FJC7451B  
**Prop Diameter:** 76" TO 75"

**Modifier:**  
**Engine Model:** LTIO-540-U2A  
**Power:** 350 HP @ 2500 RPM  
**Placard/Restr:**  
**Notes:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 15.9 +-0.2  
**Stud Protrusion**

**Startlock Angle:** 21.4 +-1.5  
**Feather/High Angle:** 80.0 +-1.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>       | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>           |
|------------------|--------------------|--------------------------|-----------------|----------------|---------------------------|
| PROPELLER        | C3R00198           | HC-C3YR-2LUF/FJC7451     | 1               | A/C            |                           |
| PROPELLER        | C3R00201           | HC-C3YR-2LUF/FJC7451B    | 1               | A/C            |                           |
| BLADE            | FJC7451            | PCP:BLADE UNIT, ALUMINUM | 3               | Prop           |                           |
| BLADE            | FJC7451B           | PCP:BLADE UNIT, ALUMINUM | 3               | Prop           |                           |
| SPINNER          | D-4816-P           | SPINNER ASSEMBLY         | 1               | Prop           |                           |
| GOVERNOR         | F6-63L             | IDS Item                 | 1               | Prop           |                           |
| GOVERNOR         | F6-63LZ            | IDS Item                 | 1               | Prop           |                           |
| COUNTERWEIGHT    | B-3202H-7L         | PCP:COUNTERWEIGHT        | 1               | Blade          | Blade Component           |
| DE-ICER          | 4H2200-10          | DE-ICE BOOT              | 1               | Blade          | Supercedes 7931-4E2200-10 |
| DE-ICE KIT PR    | 7931-67-390        | IDS ITEM - DE-ICE KIT    | 1               | Prop           |                           |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20   | 6               | Prop           |                           |
| OVERHAUL KIT     | HC-C3YR-2LUF-OH    | O/H KIT                  | 1               | Prop           | For aftermarket use only  |

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**AEROSTAR AIRCRAFT CORP.**

IDS No.: 878      Rev.: 1      IC      Date: 07/15/2015

**Model:** PA-60-700P (right side)  
**Trade Name:** AEROSTAR  
**Aircraft T.C./STC:** A17WE  
**Propeller Model:** HC-C3YR-2UF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** FC7451  
 FC7451B  
**Prop Diameter:** 76" TO 75"

**Modifier:**  
**Engine Model:** TIO-540-U2A  
**Power:** 350 HP @ 2500 RPM  
**Placard/Restr:**  
**Notes:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 15.9 +-0.2  
**Stud Protrusion**

**Startlock Angle:** 21.4 +-1.5  
**Feather/High Angle:** 80.0 +-1.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type     | Item Number    | Description                    | Quantity | Qty Per | Comments                  |
|---------------|----------------|--------------------------------|----------|---------|---------------------------|
| PROPELLER     | C3R00192       | HC-C3YR-2UF/FC7451B            | 1        | A/C     |                           |
| PROPELLER     | C3R00199       | HC-C3YR-2UF/FC7451             | 1        | A/C     |                           |
| BLADE         | FC7451         | PCP:BLADE UNIT, ALUM B-3202H-7 | 3        | Prop    |                           |
| BLADE         | FC7451B        | PCP:BLADE UNIT, ALUMINUM       | 3        | Prop    |                           |
| SPINNER       | D-4816-P       | SPINNER ASSEMBLY               | 1        | Prop    |                           |
| GOVERNOR      | F6-63          | GOVERNOR ASSEMBLY, F-6-( )     | 1        | Prop    |                           |
| GOVERNOR      | F6-63Z         | IDS Item                       | 1        | Prop    |                           |
| COUNTERWEIGHT | B-3202H-7      | PCP:COUNTERWEIGHT              | 1        | Blade   | Blade Component           |
| DE-ICER       | 4H2271-10      | DE-ICE BOOT                    | 1        | Blade   | Supersedes 7931-4E2271-10 |
| DE-ICE KIT PR | 7931-67-390    | IDS ITEM - DE-ICE KIT          | 1        | Prop    |                           |
| MTG BOLT/STUD | A-2067         | STUD, MOUNTING, 1/2-20         | 6        | Prop    |                           |
| OVERHAUL KIT  | HC-C3YR-2UF-OH | O/H KIT                        | 1        | Prop    | For aftermarket use only  |

**AEROTEC**

IDS No.: 81      Rev.: -      DM      Date: 10/01/1992

**Model:** see AVIAT  
**Trade Name:**  
**Aircraft T.C./STC:**  
**Propeller Model:**  
**Propeller T.C.:**  
**Blade Model(s):**  
**Prop Diameter:**

**Modifier:**  
**Engine Model:**  
**Power:** HP @ RPM  
**Placard/Restr:**  
**Notes:**

**Prop Setup:**

**Ref. Radius:**  
**Reverse Angle:**  
**Low Pitch Angle:**  
**Stud Protrusion**

**Startlock Angle:**  
**Feather/High Angle:**  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

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**AEROTEK II, INC. (CALLAIR)**

**Model:** B1A  
**Trade Name:** CALLAIR  
**Aircraft T.C./STC:** A7WE, A8WE  
**Propeller Model:** HC-B3R30-4, -4B  
**Propeller T.C.:** P28EA  
**Blade Model(s):** R10152-5.5R  
R10152N-5.5R  
**Prop Diameter:** 95.5" NO CUT OFF

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 16.0 +/-0.2  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>        | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|---------------------------|-----------------|----------------|--------------------------|
| BLADE            | R10152-5.5R        | IDS ITEM, BLADE           | 3               | Prop           | REPLACED BY R10152N-5.5R |
| BLADE            | R10152N-5.5R       | IDS ITEM, BLADE           | 3               | Prop           |                          |
| SPINNER          | 836-32R            | IDS Item                  | 1               | Prop           |                          |
| COUNTERWEIGHT    | B-3309-4B          | IDS Item                  | 1               | Blade          |                          |
| MTG BOLT/STUD    | B-1894             | PCP: NUT,SHAFT, 30 SPLINE | 1               | Prop           |                          |

**IDS No.:** 1589      **Rev.:** 1      **D**      **Date:** 01/10/2011

**Modifier:**  
**Engine Model:** R985-AN-1, AN-3, AN-14B, 1B5  
**Power:** 450 HP @ 2300 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 28.0 +/-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:**

**AGUSTA**

**Model:** see SIAI MARCHETTI  
**Trade Name:**  
**Aircraft T.C./STC:**  
**Propeller Model:**  
**Propeller T.C.:**  
**Blade Model(s):**  
**Prop Diameter:**

### Prop Setup:

**Ref. Radius:**  
**Reverse Angle:**  
**Low Pitch Angle:**  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

### Hartzell Approved Items:

**IDS No.:** 103      **Rev.:** -      **DM**      **Date:** 02/01/1998

**Modifier:**  
**Engine Model:**  
**Power:** HP @ RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:**  
**Feather/High Angle:**  
**Cwt Angle:**

**Non-HPI Governor:**

# HARTZELL

## APPLICATION GUIDE

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### AIR & SPACE

**Model:** 18, 18A  
**Trade Name:**  
**Aircraft T.C./STC:** 1H17  
**Propeller Model:** HC-92ZK-8L  
**Propeller T.C.:** P892  
**Blade Model(s):** L8447A-8  
L8447AN-8  
**Prop Diameter:** 76"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 11.0 +-0.2  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 82      **Rev.:** -      **DM Date:** 09/10/2004

**Modifier:**  
**Engine Model:** O-360-A1D  
**Power:** 180 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 28.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

#### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>            | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|-------------------------------|-----------------|----------------|-----------------|
| BLADE            | L8447A-8           | BLADE UNIT, ALUMINUM          | 2               | Prop           |                 |
| BLADE            | L8447AN-8          | PCP:BLADE UNIT, ALUMINUM      | 2               | Prop           |                 |
| SPINNER          | 835-6P             | IDS Item                      | 1               | Prop           |                 |
| GOVERNOR         | F2-2A              | GOVERNOR ASSEMBLY, F-2-( )    | 1               | A/C            |                 |
| MTG BOLT/STUD    | A-1333             | BOLT,MOUNTING,1/2-20,HEX HEAD | 4               | Prop           |                 |
| MTG BOLT/STUD    | A-1333-2           | IDS Item                      | 2               | Prop           |                 |

### AIR & SPACE

**Model:** 18A  
**Trade Name:**  
**Aircraft T.C./STC:** 1H17  
**Propeller Model:** HC-C2YK-1BLF  
**Propeller T.C.:** P-920  
**Blade Model(s):** FL7666AS  
**Prop Diameter:** 76.0" TO 75.0"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 9.5 +-0.1  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 84      **Rev.:** 1      **IC Date:** 07/07/2015

**Modifier:**  
**Engine Model:** O-360-A1D  
**Power:** 200 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 28.0 +-0.5  
**Cwt Angle:**

**Non-HPI Governor:**

#### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>       | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|--------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | C2K00240           | HC-C2YK-1BLF/FL7666AS    | 1               | A/C            |                          |
| BLADE            | FL7666AS           | PCP:BLADE UNIT, ALUMINUM | 2               | Prop           |                          |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20   | 6               | Prop           |                          |
| OVERHAUL KIT     | HC-C2YK-1BLF-OH    | O/H KIT                  | 1               | Prop           | For aftermarket use only |

# HARTZELL

## AIR & SPACE

**Model:** 18, 18A  
**Trade Name:**  
**Aircraft T.C./STC:** STC-SH156GL  
**Propeller Model:** HC-C3YR-1RLF  
**Propeller T.C.:** P25EA

**Blade Model(s):** FL7663-4R  
**Prop Diameter:** 76"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** UNKNOWN  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>       | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|--------------------------|-----------------|----------------|-----------------|
| BLADE            | FL7663-4R          | PCP:BLADE UNIT, ALUMINUM | 3               | Prop           |                 |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20   | 6               | Prop           |                 |

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**IDS No.:** 83      **Rev.:** -      **DM Date:** 03/21/2007

**Modifier:** FARRINGTON A/C CORP  
**Engine Model:** O-360-A1D  
**Power:** 180 HP @ 2700 RPM  
**Placard/Restr:** Do not exceed 24 inches manifold pressure below 2350 RPM.  
**Notes:** "K" Flange approved.

**Startlock Angle:** NA  
**Feather/High Angle:** UNKNOWN  
**Cwt Angle:**

**Non-HPI Governor:**



# HARTZELL

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### AIR TRACTOR

**Model:** AT-301, AT-302  
**Trade Name:**  
**Aircraft T.C./STC:** SA7610SW  
**Propeller Model:** HC-B3TN-5M  
**Propeller T.C.:** P15EA  
**Blade Model(s):** T10282N+4  
**Prop Diameter:** 106.5" TO 102.0"

**IDS No.:** 3027      **Rev.:** 3      **IC Date:** 01/27/2020

**Modifier:** Bailey Flying Service  
**Engine Model:** TPE331-6  
**Power:** 700 HP @ 2000 RPM  
**Placard/Restr:**  
**Notes:**

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** -6.5 +/- 0.5  
**Low Pitch Angle:** N/A  
**Stud Protrusion**

**Startlock Angle:** 2.0+/-0.1  
**Feather/High Angle:** 87.0 +/-1.0  
**Cwt Angle:** Positive

#### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:**

#### Hartzell Approved Items:

| Item Type                      | Item Number   | Description                       | Quantity | Qty Per | Comments                 |
|--------------------------------|---------------|-----------------------------------|----------|---------|--------------------------|
| PROPELLER                      | B3N10911S     | HC-B3TN-5M/T10282N+4/D-3434-1P    | 1        | A/C     |                          |
| BLADE                          | T10282N+4     | PCP:BLADE UNIT, ALUM [1,1,1]      | 3        | Prop    |                          |
| SPINNER                        | D-3434-1      | SPINNER ASSEMBLY                  | 1        | Prop    |                          |
| SPINNER                        | D-3434-1P     | SPINNER ASSEMBLY                  | 1        | Prop    |                          |
| SPIN MTG KIT                   | B-3384-8H     | BOLT, 1/4-28, HEX HEAD            | 9        | Prop    |                          |
| SPIN MTG KIT                   | B-3808-4      | NUT,HEX,SELF-LOCKING              | 9        | Prop    |                          |
| SPIN MTG KIT                   | B-3851-0432   | WASHER                            | 9        | Prop    |                          |
| COUNTERWEIGHT SLUG A-3039      |               | SLUG, COUNTERWEIGHT               | 1        | Blade   |                          |
| COUNTERWEIGHT SLUG A-890-6     |               | PCP:SLUG, COUNTERWEIGHT           | 1        | Blade   | Primary                  |
| COUNTERWEIGHT SLUG A-890-8     |               | PCP:SLUG, COUNTERWEIGHT           | 1        | Blade   | Alternate                |
| COUNTERWEIGHT SLUG A-890-9     |               | PCP:SLUG, COUNTERWEIGHT           | 1        | Blade   | Alternate                |
| COUNTERWEIGHT SLUG B-3384-21H  |               | BOLT, 1/4-28, HEX HEAD            | 2        | Blade   |                          |
| COUNTERWEIGHT SLUG B-3851-0432 |               | WASHER                            | 2        | Blade   | Optional                 |
| COUNTERWEIGHT SLUG B-3851-0463 |               | WASHER                            | 2        | Blade   | Optional                 |
| MTG BOLT/STUD                  | B-3339        | BOLT, MOUNTING, 9/16-18, 12 POINT | 8        | Prop    |                          |
| OVERHAUL KIT                   | HC-B3TN-5M-OH | O/H KIT                           | 1        | Prop    | For aftermarket use only |

# HARTZELL

## APPLICATION GUIDE 159

### AIR TRACTOR

**Model:** AT-402, AT-402B, AT-502, AT-502B, AT-503A, AT-504

**Trade Name:**

**Aircraft T.C./STC:** SA03439CH

**Propeller Model:** HC-B4TN-3C

**Propeller T.C.:** P40EA

**Blade Model(s):** T10702NS

**Prop Diameter:** 108"-107"

#### Prop Setup:

**Ref. Radius:** 42

**Reverse Angle:** -15.0 +/- 0.5

**Low Pitch Angle:** 7.9 +/- 0.1

**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 3484      **Rev.:** 2      **IC Date:** 03/16/2018

**Modifier:** AERO INNOVATIONS

**Engine Model:** PT6A (see Notes)

**Power:** 750 HP @ 2200 RPM

**Placard/Restr:** Stabilized ground operation is prohibited between 400 and 1100rpm. The propeller may be operated when feathered at or below 400 rpm.

**Notes:** The following engines are approved with the limitations per the airplane TCDS: PT6A-15AG, -27, -34, -34AG, -34B, -36

**Startlock Angle:**

**Feather/High Angle:** 80.7 +/-0.5

**Cwt Angle:** Positive

**Non-HPI Governor:**

#### Hartzell Approved Items:

| <u>Item Type</u>               | <u>Item Number</u> | <u>Description</u>                | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|--------------------------------|--------------------|-----------------------------------|-----------------|----------------|-----------------|
| PROPELLER                      | B4N10350S          | HC-B4TN-3C/T10702NS/D-3434-18P    | 1               | A/C            |                 |
| PROPELLER                      | B4N10350SKD        | HC-B4TN-3C/T10702NS/D-3434-18P    | 1               | A/C            |                 |
| BLADE                          | T10702NS           | PCP:BLADE UNIT, ALUMINUM          | 4               | Prop           |                 |
| SPINNER                        | D-3434-18          | SPINNER ASSEMBLY                  | 1               | Prop           |                 |
| SPINNER                        | D-3434-18P         | SPINNER ASSEMBLY                  | 1               | Prop           |                 |
| SPIN MTG KIT                   | B-3384-4H          | BOLT, 1/4-28, HEX HEAD            | 12              | Prop           |                 |
| SPIN MTG KIT                   | B-3808-4           | NUT,HEX,SELF-LOCKING              | 12              | Prop           |                 |
| SPIN MTG KIT                   | B-3851-0463        | WASHER                            | 12              | Prop           |                 |
| COUNTERWEIGHT SLUG A-3039      |                    | SLUG, COUNTERWEIGHT               | 1               | Blade          |                 |
| COUNTERWEIGHT SLUG A-890-13    |                    | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          |                 |
| COUNTERWEIGHT SLUG A-890-14    |                    | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          |                 |
| COUNTERWEIGHT SLUG B-3384-15H  |                    | BOLT, 1/4-28, HEX HEAD            | 2               | Blade          |                 |
| COUNTERWEIGHT SLUG B-3384-18H  |                    | BOLT, 1/4-28, HEX HEAD            | 2               | Blade          |                 |
| COUNTERWEIGHT SLUG B-3851-0432 |                    | WASHER                            | 2               | Blade          |                 |
| COUNTERWEIGHT SLUG B-3851-0463 |                    | WASHER                            | 2               | Blade          |                 |
| MTG BOLT/STUD                  | B-3339             | BOLT, MOUNTING, 9/16-18, 12 POINT | 8               | Prop           |                 |
| MISC ACCES                     | A-3044             | BLOCK, BETA FEEDBACK- ASSEMBLY    | 1               | Prop           |                 |

# HARTZELL

## APPLICATION GUIDE

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### AIR TRACTOR

**Model:** AT-502, AT-502B  
**Trade Name:**  
**Aircraft T.C./STC:** Experimental  
**Propeller Model:** HC-B4TN-3C  
**Propeller T.C.:** P40EA

**Blade Model(s):** T10702NS  
**Prop Diameter:** 108"-107"

#### Prop Setup:

**Ref. Radius:** 42  
**Reverse Angle:** -15.0 +/- 0.5  
**Low Pitch Angle:** 11.8+/- 0.1  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 3535      **Rev.:** 1      **IC Date:** 06/07/2017

**Modifier:** Cascade Aircraft Conversions, LLC  
**Engine Model:** PT6A (See note.)  
**Power:** 850 HP @ 2000 RPM  
**Placard/Restr:** Stabilized ground operation is prohibited between 400 and 1100rpm. The propeller may be operated when feathered at or below 400 rpm.

**Notes:** These engines are approved with limitations per the airplane TCDS: -41, -42, -42A

**Startlock Angle:**  
**Feather/High Angle:** 80.7 +/-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:**

#### Hartzell Approved Items:

| <u>Item Type</u>               | <u>Item Number</u> | <u>Description</u>                | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|--------------------------------|--------------------|-----------------------------------|-----------------|----------------|-----------------|
| PROPELLER                      | B4N10360S          | HC-B4TN-3C/T10702NS/D-3434-18P    | 1               | A/C            |                 |
| PROPELLER                      | B4N10360SKD        | HC-B4TN-3C/T10702NS/D-3434-18P    | 1               | A/C            |                 |
| BLADE                          | T10702NS           | PCP:BLADE UNIT, ALUMINUM          | 4               | Prop           |                 |
| SPINNER                        | D-3434-18          | SPINNER ASSEMBLY                  | 1               | Prop           |                 |
| SPINNER                        | D-3434-18P         | SPINNER ASSEMBLY                  | 1               | Prop           |                 |
| SPIN MTG KIT                   | B-3384-4H          | BOLT, 1/4-28, HEX HEAD            | 12              | Prop           |                 |
| SPIN MTG KIT                   | B-3808-4           | NUT,HEX,SELF-LOCKING              | 12              | Prop           |                 |
| SPIN MTG KIT                   | B-3851-0463        | WASHER                            | 12              | Prop           |                 |
| COUNTERWEIGHT SLUG A-3039      |                    | SLUG, COUNTERWEIGHT               | 1               | Blade          |                 |
| COUNTERWEIGHT SLUG A-890-13    |                    | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          |                 |
| COUNTERWEIGHT SLUG A-890-14    |                    | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          |                 |
| COUNTERWEIGHT SLUG B-3384-15H  |                    | BOLT, 1/4-28, HEX HEAD            | 2               | Blade          |                 |
| COUNTERWEIGHT SLUG B-3384-18H  |                    | BOLT, 1/4-28, HEX HEAD            | 2               | Blade          |                 |
| COUNTERWEIGHT SLUG B-3851-0432 |                    | WASHER                            | 2               | Blade          |                 |
| COUNTERWEIGHT SLUG B-3851-0463 |                    | WASHER                            | 2               | Blade          |                 |
| MTG BOLT/STUD                  | B-3339             | BOLT, MOUNTING, 9/16-18, 12 POINT | 8               | Prop           |                 |
| MISC ACCES                     | A-3044             | BLOCK, BETA FEEDBACK- ASSEMBLY    | 1               | Prop           |                 |

# HARTZELL

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### AIR TRACTOR

**Model:** AT-502A  
**Trade Name:**  
**Aircraft T.C./STC:** A17SW  
**Propeller Model:** HC-B4TN-3C  
**Propeller T.C.:** P40EA

**IDS No.:** 3340      **Rev.:** 3      **IC Date:** 02/12/2020

**Modifier:**  
**Engine Model:** PT6A-140AG  
**Power:** 867 HP @ 1900 RPM  
**Placard/Restr:** Stabilized ground operation is prohibited between 400 and 1100rpm. The propeller may be operated when feathered at or below 400 rpm.

**Blade Model(s):** T10702NS  
**Prop Diameter:** 108"-107"

**Notes:**

**Prop Setup:**

**Ref. Radius:** 42  
**Reverse Angle:** -15.0 +/- 0.5  
**Low Pitch Angle:** 8.2 +/- 0.1  
**Stud Protrusion**

**Startlock Angle:**  
**Feather/High Angle:** 80.7 +/- 0.5  
**Cwt Angle:** Positive

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u>               | <u>Item Number</u> | <u>Description</u>                | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|--------------------------------|--------------------|-----------------------------------|-----------------|----------------|-----------------|
| PROPELLER                      | B4N10375S          | HC-B4TN-3C/T10702NS/D-3434-18P    | 1               | A/C            |                 |
| PROPELLER                      | B4N10375SKD        | HC-B4TN-3C/T10702NS/D-3434-18P    | 1               | A/C            |                 |
| BLADE                          | T10702NS           | PCP:BLADE UNIT, ALUMINUM          | 4               | Prop           |                 |
| SPINNER                        | D-3434-18          | SPINNER ASSEMBLY                  | 1               | Prop           |                 |
| SPINNER                        | D-3434-18P         | SPINNER ASSEMBLY                  | 1               | Prop           |                 |
| SPIN MTG KIT                   | B-3384-4H          | BOLT, 1/4-28, HEX HEAD            | 12              | Prop           |                 |
| SPIN MTG KIT                   | B-3808-4           | NUT, HEX, SELF-LOCKING            | 12              | Prop           |                 |
| SPIN MTG KIT                   | B-3851-0463        | WASHER                            | 12              | Prop           |                 |
| COUNTERWEIGHT SLUG A-3039      |                    | SLUG, COUNTERWEIGHT               | 1               | Blade          |                 |
| COUNTERWEIGHT SLUG A-890-13    |                    | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          |                 |
| COUNTERWEIGHT SLUG A-890-14    |                    | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          |                 |
| COUNTERWEIGHT SLUG B-3384-15H  |                    | BOLT, 1/4-28, HEX HEAD            | 2               | Blade          |                 |
| COUNTERWEIGHT SLUG B-3384-18H  |                    | BOLT, 1/4-28, HEX HEAD            | 2               | Blade          |                 |
| COUNTERWEIGHT SLUG B-3851-0432 |                    | WASHER                            | 2               | Blade          |                 |
| COUNTERWEIGHT SLUG B-3851-0463 |                    | WASHER                            | 2               | Blade          |                 |
| MTG BOLT/STUD                  | B-3339             | BOLT, MOUNTING, 9/16-18, 12 POINT | 8               | Prop           |                 |
| MISC ACCES                     | A-3044             | BLOCK, BETA FEEDBACK- ASSEMBLY    | 1               | Prop           |                 |

# HARTZELL

## APPLICATION GUIDE 159

### AIR TRACTOR

**Model:** AT-802  
**Trade Name:**  
**Aircraft T.C./STC:** SA01852SE  
**Propeller Model:** HC-B5MA-5H  
**Propeller T.C.:** P44GL  
**Blade Model(s):** M11693NS  
**Prop Diameter:** 118.7"

#### Prop Setup:

**Ref. Radius:** 42  
**Reverse Angle:** -11.5 +/-0.5  
**Low Pitch Angle:** N/A  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 2952      **Rev.:** 3      **IC Date:** 01/27/2020

**Modifier:** Flight Doctor West LLC  
**Engine Model:** TPE331-14GR  
**Power:** 1650 HP @ 1552 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** -1.8 +/-0.1  
**Feather/High Angle:** 80.0 +/-0.5  
**Cwt Angle:** 2.5 +/-1.5

**Non-HPI Governor:**

#### Hartzell Approved Items:

| Item Type          | Item Number   | Description                    | Quantity | Qty Per | Comments                 |
|--------------------|---------------|--------------------------------|----------|---------|--------------------------|
| PROPELLER          | B5A10225S     | HC-B5MA-5H/M11693NS/E-5760-P   | 1        | A/C     |                          |
| PROPELLER          | B5A10225SKD   | HC-B5MA-5H/M11693NS/E-5760-P   | 1        | A/C     |                          |
| BLADE              | M11693NS      | PCP:BLADE UNIT, ALUMINUM       | 5        | Prop    |                          |
| SPINNER            | E-5760        | SPINNER ASSEMBLY               | 1        | Prop    |                          |
| SPINNER            | E-5760-P      | SPINNER ASSEMBLY               | 1        | Prop    |                          |
| SPIN MTG KIT       | B-3384-12H    | BOLT, 1/4-28, HEX HEAD         | 5        | Prop    |                          |
| SPIN MTG KIT       | B-3384-17H    | BOLT, 1/4-28, HEX HEAD         | 5        | Prop    |                          |
| SPIN MTG KIT       | B-3808-4      | NUT,HEX,SELF-LOCKING           | 10       | Prop    |                          |
| SPIN MTG KIT       | B-3851-0463   | WASHER                         | 10       | Prop    |                          |
| COUNTERWEIGHT SLUG | B-3386-14H    | BOLT,3/8-24,HEX HEAD           | 2        | Blade   |                          |
| COUNTERWEIGHT SLUG | B-3834-0632   | WASHER                         | 2        | Blade   |                          |
| COUNTERWEIGHT SLUG | B-7222        | PCP:SLUG, COUNTERWEIGHT        | 1        | Blade   |                          |
| MTG BOLT/STUD      | B-3347        | BOLT,MOUNTING,9/16-18,12 POINT | 12       | Prop    |                          |
| OVERHAUL KIT       | HC-B5MA-5H-OH | O/H KIT                        | 1        | Prop    | For aftermarket use only |

# HARTZELL

## APPLICATION GUIDE

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### AIR TRACTOR

**Model:** AT-301, AT-302, AT-401  
**Trade Name:** AIR TRACTOR  
**Aircraft T.C./STC:** STC-SA8118SW  
**Propeller Model:** HC-B3TN-5C, -5M  
**Propeller T.C.:** P15EA  
**Blade Model(s):** T10282+4  
 T10282N+4  
**Prop Diameter:** 106.5"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** -3.0 +-0.5  
**Low Pitch Angle:**  
**Stud Protrusion**

**IDS No.:** 96      **Rev.:** 3      **IC Date:** 01/27/2020

**Modifier:** FARM & RANCH  
**Engine Model:** TPE331-1-101Z  
**Power:** 600 HP @ 2000 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** 2.5 +-0.1  
**Feather/High Angle:** 89.0 +-0.5  
**Cwt Angle:** 4.0 +-2.0

#### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:**

#### Hartzell Approved Items:

| <u>Item Type</u>               | <u>Item Number</u> | <u>Description</u>                | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|--------------------------------|--------------------|-----------------------------------|-----------------|----------------|-----------------|
| BLADE                          | T10282+4           | BLADE                             | 3               | Prop           |                 |
| BLADE                          | T10282N+4          | PCP:BLADE UNIT, ALUM [1,1,1]      | 3               | Prop           |                 |
| SPINNER                        | C-3043-3P          | SPINNER ASSEMBLY                  | 1               | Prop           |                 |
| COUNTERWEIGHT SLUG A-3039      |                    | SLUG, COUNTERWEIGHT               | 1               | Blade          |                 |
| COUNTERWEIGHT SLUG A-890-6     |                    | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          | Primary         |
| COUNTERWEIGHT SLUG A-890-8     |                    | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          | Alternate       |
| COUNTERWEIGHT SLUG A-890-9     |                    | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          | Alternate       |
| COUNTERWEIGHT SLUG B-3384-21H  |                    | BOLT, 1/4-28, HEX HEAD            | 2               | Blade          |                 |
| COUNTERWEIGHT SLUG B-3851-0432 |                    | WASHER                            | 2               | Blade          | Optional        |
| COUNTERWEIGHT SLUG B-3851-0463 |                    | WASHER                            | 2               | Blade          | Optional        |
| MTG BOLT/STUD                  | B-3339             | BOLT, MOUNTING, 9/16-18, 12 POINT | 8               | Prop           |                 |

# HARTZELL

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### AIR TRACTOR

IDS No.: 86      Rev.: -      DM Date: 01/09/2004

**Model:** AT-302  
**Trade Name:** AIR TRACTOR  
**Aircraft T.C./STC:** A9SW  
**Propeller Model:** HC-B3TN-3G  
**Propeller T.C.:** P15EA  
**Blade Model(s):** T10282+6  
    T10282N+6  
**Prop Diameter:** 108.25" TO 106.5"

**Modifier:**  
**Engine Model:** LTP-101-600A-1A  
**Power:** 599 HP @ 1950 RPM  
**Placard/Restr:**  
**Notes:**

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** -7.8 +-0.5  
**Low Pitch Angle:** 18.0 +-0.2  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 87.6 +-0.5  
**Cwt Angle:**

#### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:**

#### Hartzell Approved Items:

| <u>Item Type</u>              | <u>Item Number</u> | <u>Description</u>                | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|-------------------------------|--------------------|-----------------------------------|-----------------|----------------|-----------------|
| BLADE                         | T10282+6           | BLADE                             | 3               | Prop           |                 |
| BLADE                         | T10282N+6          | PCP:BLADE UNIT, ALUMINUM          | 3               | Prop           |                 |
| SPINNER                       | C-3065             | SPINNER ASSEMBLY                  | 1               | Prop           |                 |
| COUNTERWEIGHT SLUG A-3039     |                    | SLUG, COUNTERWEIGHT               | 1               | Blade          |                 |
| COUNTERWEIGHT SLUG A-890-6    |                    | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          |                 |
| COUNTERWEIGHT SLUG B-3384-23H |                    | BOLT, 1/4-28, HEX HEAD            | 1               | Blade          |                 |
| MTG BOLT/STUD                 | B-3339             | BOLT, MOUNTING, 9/16-18, 12 POINT | 8               | Prop           |                 |

# HARTZELL

## APPLICATION GUIDE 159

### AIR TRACTOR

**Model:** AT-400  
**Trade Name:** AIR TRACTOR  
**Aircraft T.C./STC:** A9SW  
**Propeller Model:** HC-B3TN-3D  
**Propeller T.C.:** P15EA  
**Blade Model(s):** T10282+4  
                           T10282N+4  
                           T10282NS+4  
                           T10282S+4  
**Prop Diameter:** 106.5" TO 102.0"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** -7.8 +-0.5  
**Low Pitch Angle:** 18.0 +-0.1  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 88      **Rev.:** 2      **D**      **Date:** 06/04/2013

**Modifier:**

**Engine Model:** PT6A-15AG, -27, -34, -34AG

**Power:** 680 HP @ 2200 RPM

**Placard/Restr:**

**Notes:** At the low pitch setting, check blade to blade angles at the 30, 42 and 48 inch radial locations. No blade may be consistently high or low at all three stations.

**Startlock Angle:** NA

**Feather/High Angle:** 87.0 +-1.0

**Cwt Angle:** Positive

**Non-HPI Governor:**

#### Hartzell Approved Items:

| <u>Item Type</u>               | <u>Item Number</u> | <u>Description</u>                | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|--------------------------------|--------------------|-----------------------------------|-----------------|----------------|-----------------|
| BLADE                          | T10282+4           | BLADE                             | 3               | Prop           |                 |
| BLADE                          | T10282N+4          | PCP:BLADE UNIT, ALUM [1,1,1]      | 3               | Prop           |                 |
| BLADE                          | T10282NS+4         | PCP:BLADE UNIT, ALUMINUM          | 3               | Prop           |                 |
| BLADE                          | T10282S+4          | IDS*ITEM, BLADE                   | 3               | Prop           |                 |
| SPINNER                        | C-3065             | SPINNER ASSEMBLY                  | 1               | Prop           |                 |
| SPINNER                        | C-3065-P           | SPINNER ASSEMBLY                  | 1               | Prop           |                 |
| COUNTERWEIGHT SLUG A-3039      |                    | SLUG, COUNTERWEIGHT               | 1               | Blade          |                 |
| COUNTERWEIGHT SLUG A-890-6     |                    | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          | Primary         |
| COUNTERWEIGHT SLUG A-890-8     |                    | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          | Alternate       |
| COUNTERWEIGHT SLUG A-890-9     |                    | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          | Alternate       |
| COUNTERWEIGHT SLUG B-3384-21H  |                    | BOLT, 1/4-28, HEX HEAD            | 2               | Blade          |                 |
| COUNTERWEIGHT SLUG B-3851-0432 |                    | WASHER                            | 2               | Blade          | Optional        |
| COUNTERWEIGHT SLUG B-3851-0463 |                    | WASHER                            | 2               | Blade          | Optional        |
| MTG BOLT/STUD                  | B-3339             | BOLT, MOUNTING, 9/16-18, 12 POINT | 8               | Prop           |                 |



# HARTZELL

## APPLICATION GUIDE

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### AIR TRACTOR

**Model:** AT-400A  
**Trade Name:** AIR TRACTOR  
**Aircraft T.C./STC:** A9SW  
**Propeller Model:** HC-B3TN-3D  
**Propeller T.C.:** P15EA  
**Blade Model(s):** T10282+4  
 T10282N+4  
 T10282NS+4  
 T10282S+4  
**Prop Diameter:** 106.5" TO 102.0"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** -7.8 +-0.5  
**Low Pitch Angle:** 18.0 +-0.1  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

#### Hartzell Approved Items:

**IDS No.:** 89      **Rev.:** 2      **D**      **Date:** 06/04/2013

**Modifier:**  
**Engine Model:** PT6A-15AG,20(A,B),-21,-27,-34(AG)  
**Power:** 550 HP @ 2200 RPM  
**Placard/Restr:**

**Notes:** At the low pitch setting, check blade to blade angles at the 30, 42 and 48 inch radial locations. No blade may be consistently high or low at all three stations.

**Startlock Angle:** NA  
**Feather/High Angle:** 87.0 +-1.0  
**Cwt Angle:** Positive

**Non-HPI Governor:**

| <u>Item Type</u>               | <u>Item Number</u> | <u>Description</u>                | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|--------------------------------|--------------------|-----------------------------------|-----------------|----------------|-----------------|
| BLADE                          | T10282+4           | BLADE                             | 3               | Prop           |                 |
| BLADE                          | T10282N+4          | PCP:BLADE UNIT, ALUM [1,1,1]      | 3               | Prop           |                 |
| BLADE                          | T10282NS+4         | PCP:BLADE UNIT, ALUMINUM          | 3               | Prop           |                 |
| BLADE                          | T10282S+4          | IDS*ITEM, BLADE                   | 3               | Prop           |                 |
| SPINNER                        | C-3065             | SPINNER ASSEMBLY                  | 1               | Prop           |                 |
| SPINNER                        | C-3065-P           | SPINNER ASSEMBLY                  | 1               | Prop           |                 |
| COUNTERWEIGHT SLUG A-3039      |                    | SLUG, COUNTERWEIGHT               | 1               | Blade          |                 |
| COUNTERWEIGHT SLUG A-890-6     |                    | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          | Primary         |
| COUNTERWEIGHT SLUG A-890-8     |                    | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          | Alternate       |
| COUNTERWEIGHT SLUG A-890-9     |                    | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          | Alternate       |
| COUNTERWEIGHT SLUG B-3384-21H  |                    | BOLT, 1/4-28, HEX HEAD            | 2               | Blade          |                 |
| COUNTERWEIGHT SLUG B-3851-0432 |                    | WASHER                            | 2               | Blade          | Optional        |
| COUNTERWEIGHT SLUG B-3851-0463 |                    | WASHER                            | 2               | Blade          | Optional        |
| MTG BOLT/STUD                  | B-3339             | BOLT, MOUNTING, 9/16-18, 12 POINT | 8               | Prop           |                 |

# HARTZELL

## APPLICATION GUIDE 159

### AIR TRACTOR

**Model:** AT-401/402  
**Trade Name:**  
**Aircraft T.C./STC:** SA01528CH  
**Propeller Model:** HC-B3TW-3  
**Propeller T.C.:** P15EA

**Blade Model(s):** T10282NS+4  
**Prop Diameter:**

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** -8.0 +-0.5  
**Low Pitch Angle:** 18.0 +-0.1  
**Stud Protrusion:** 1.740 +-0.010

#### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 1763      **Rev.:** 4      **IC Date:** 10/01/2015  
**Modifier:** TURBINE CONVERSIONS, LTD  
**Engine Model:** M601E-11  
**Power:** 777 HP @ 2080 RPM  
**Placard/Restr:** PROPELLER BLADES MUST BE SHOT  
 PEENED BETWEEN STATIONS 7.0 AND  
 24.0 ON BOTH FACE AND CAMBER SIDES

#### **Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 87.0 +-1.0  
**Cwt Angle:** Positive

**Non-HPI Governor:**

#### Hartzell Approved Items:

| <u>Item Type</u>               | <u>Item Number</u> | <u>Description</u>           | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|--------------------------------|--------------------|------------------------------|-----------------|----------------|-----------------|
| PROPELLER                      | B3W10001           | HC-B3TW-3/T10282NS+4         | 1               | A/C            |                 |
| BLADE                          | T10282NS+4         | PCP:BLADE UNIT, ALUMINUM     | 3               | Prop           |                 |
| SPINNER                        | D-3434-6           | SPINNER ASSEMBLY             | 1               | Prop           |                 |
| SPINNER                        | D-3434-6P          | SPINNER ASSEMBLY             | 1               | Prop           |                 |
| COUNTERWEIGHT SLUG A-3039      |                    | SLUG, COUNTERWEIGHT          | 1               | Blade          |                 |
| COUNTERWEIGHT SLUG A-890-6     |                    | PCP:SLUG, COUNTERWEIGHT      | 1               | Blade          | Primary         |
| COUNTERWEIGHT SLUG A-890-8     |                    | PCP:SLUG, COUNTERWEIGHT      | 1               | Blade          | Alternate       |
| COUNTERWEIGHT SLUG A-890-9     |                    | PCP:SLUG, COUNTERWEIGHT      | 1               | Blade          | Alternate       |
| COUNTERWEIGHT SLUG B-3384-21H  |                    | BOLT, 1/4-28, HEX HEAD       | 2               | Blade          |                 |
| COUNTERWEIGHT SLUG B-3851-0432 |                    | WASHER                       | 2               | Blade          | Optional        |
| COUNTERWEIGHT SLUG B-3851-0463 |                    | WASHER                       | 2               | Blade          | Optional        |
| MTG BOLT/STUD                  | A-3254             | STUD, MOUNTING, 9/16-18      | 8               | Prop           |                 |
| MTG BOLT/STUD                  | B-7458             | NUT,9/16-18,HEX,SELF-LOCKING | 8               | Prop           |                 |

# HARTZELL

## APPLICATION GUIDE 159

### AIR TRACTOR

**Model:** AT-300, AT-400 SERIES (see note)

**Trade Name:**

**Aircraft T.C./STC:** STC SA00888SE

**Propeller Model:** HC-B3TW-3

**Propeller T.C.:** P15EA

**Blade Model(s):** T10282N+4  
T10282NS+4

**Prop Diameter:**

#### Prop Setup:

**Ref. Radius:** 30

**Reverse Angle:** -8.0 +-0.5

**Low Pitch Angle:** 18.0 +-0.1

**Stud Protrusion** 1.740 +-0.010

**IDS No.:** 1770

**Rev.:** 3 **D** **Date:** 06/04/2013

**Modifier:** CASCADE FLYING SERVICES

**Engine Model:** M601E-11

**Power:** 777 HP @ 2080 RPM

**Placard/Restr:**

**Notes:** STC applies to aircraft models AT-(300, 301, 302), AT-400(A), AT-401(A,B) and AT-402(A,B)

**Startlock Angle:** NA

**Feather/High Angle:** 87.0 +-1.0

**Cwt Angle:** Positive

#### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:**

#### Hartzell Approved Items:

| <u>Item Type</u>               | <u>Item Number</u> | <u>Description</u>             | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|--------------------------------|--------------------|--------------------------------|-----------------|----------------|-----------------|
| PROPELLER                      | B3W10002           | HC-B3TW-3/T10282NS+4           | 1               | A/C            |                 |
| PROPELLER                      | B3W10002S          | HC-B3TW-3/T10282NS+4/D-3434-6P | 1               | A/C            |                 |
| PROPELLER                      | B3W10005           | HC-B3TW-3/T10282N+4            | 1               | A/C            |                 |
| PROPELLER                      | B3W10005S          | HC-B3TW-3/T10282N+4/D-3434-6P  | 1               | A/C            |                 |
| BLADE                          | T10282N+4          | PCP:BLADE UNIT, ALUM [1,1,1]   | 3               | Prop           |                 |
| BLADE                          | T10282NS+4         | PCP:BLADE UNIT, ALUMINUM       | 3               | Prop           |                 |
| SPINNER                        | D-3434-6           | SPINNER ASSEMBLY               | 1               | Prop           |                 |
| SPINNER                        | D-3434-6P          | SPINNER ASSEMBLY               | 1               | Prop           |                 |
| COUNTERWEIGHT SLUG A-3039      |                    | SLUG, COUNTERWEIGHT            | 1               | Blade          |                 |
| COUNTERWEIGHT SLUG A-890-6     |                    | PCP:SLUG, COUNTERWEIGHT        | 1               | Blade          | Primary         |
| COUNTERWEIGHT SLUG A-890-8     |                    | PCP:SLUG, COUNTERWEIGHT        | 1               | Blade          | Alternate       |
| COUNTERWEIGHT SLUG A-890-9     |                    | PCP:SLUG, COUNTERWEIGHT        | 1               | Blade          | Alternate       |
| COUNTERWEIGHT SLUG B-3384-21H  |                    | BOLT, 1/4-28, HEX HEAD         | 2               | Blade          |                 |
| COUNTERWEIGHT SLUG B-3851-0432 |                    | WASHER                         | 2               | Blade          | Optional        |
| COUNTERWEIGHT SLUG B-3851-0463 |                    | WASHER                         | 2               | Blade          | Optional        |
| MTG BOLT/STUD                  | A-3254             | STUD, MOUNTING, 9/16-18        | 8               | Prop           |                 |
| MTG BOLT/STUD                  | B-7458             | NUT,9/16-18,HEX,SELF-LOCKING   | 8               | Prop           |                 |

# HARTZELL

## APPLICATION GUIDE 159

### AIR TRACTOR

IDS No.: 90      Rev.: 2      D      Date: 06/04/2013

**Model:** AT-402  
**Trade Name:** AIR TRACTOR  
**Aircraft T.C./STC:** A17SW  
**Propeller Model:** HC-B3TN-3D  
**Propeller T.C.:** P15EA  
**Blade Model(s):** T10282+4  
                           T10282N+4  
                           T10282NS+4  
                           T10282S+4  
**Prop Diameter:** 106.5" TO 102.0"

**Modifier:**  
**Engine Model:** PT6A-15AG,-34(AG),-27  
**Power:** 680 HP @ 2200 RPM  
**Placard/Restr:**

**Notes:** At the low pitch setting, check blade to blade angles at the 30, 42 and 48 inch radial locations. No blade may be consistently high or low at all three stations.

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** -8.0 +-0.5  
**Low Pitch Angle:** 18.0 +-0.1  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 87.0 +-1.0  
**Cwt Angle:** Positive

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u>               | <u>Item Number</u> | <u>Description</u>                | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|--------------------------------|--------------------|-----------------------------------|-----------------|----------------|-----------------|
| BLADE                          | T10282+4           | BLADE                             | 3               | Prop           |                 |
| BLADE                          | T10282N+4          | PCP:BLADE UNIT, ALUM [1,1,1]      | 3               | Prop           |                 |
| BLADE                          | T10282NS+4         | PCP:BLADE UNIT, ALUMINUM          | 3               | Prop           |                 |
| BLADE                          | T10282S+4          | IDS*ITEM, BLADE                   | 3               | Prop           |                 |
| SPINNER                        | C-3065             | SPINNER ASSEMBLY                  | 1               | Prop           |                 |
| SPINNER                        | C-3065-P           | SPINNER ASSEMBLY                  | 1               | Prop           |                 |
| COUNTERWEIGHT SLUG A-3039      |                    | SLUG, COUNTERWEIGHT               | 1               | Blade          |                 |
| COUNTERWEIGHT SLUG A-890-6     |                    | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          | Primary         |
| COUNTERWEIGHT SLUG A-890-8     |                    | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          | Alternate       |
| COUNTERWEIGHT SLUG A-890-9     |                    | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          | Alternate       |
| COUNTERWEIGHT SLUG B-3384-21H  |                    | BOLT, 1/4-28, HEX HEAD            | 2               | Blade          |                 |
| COUNTERWEIGHT SLUG B-3851-0432 |                    | WASHER                            | 2               | Blade          | Optional        |
| COUNTERWEIGHT SLUG B-3851-0463 |                    | WASHER                            | 2               | Blade          | Optional        |
| MTG BOLT/STUD                  | B-3339             | BOLT, MOUNTING, 9/16-18, 12 POINT | 8               | Prop           |                 |

# HARTZELL

## APPLICATION GUIDE 159

### AIR TRACTOR

IDS No.: 1078      Rev.: 2      D      Date: 06/04/2013

**Model:** AT-402A  
**Trade Name:** AIR TRACTOR  
**Aircraft T.C./STC:** A17SW  
**Propeller Model:** HC-B3TN-3D  
**Propeller T.C.:** P15EA  
**Blade Model(s):** T10282+4  
                           T10282N+4  
                           T10282NS+4  
                           T10282S+4  
**Prop Diameter:** 106.5" TO 102.0"

**Modifier:**  
**Engine Model:** PT6A-11, -11AG, -20, -20A, -20B, -21  
**Power:** 550 HP @ 2200 RPM  
**Placard/Restr:**

**Notes:** At the low pitch setting, check blade to blade angles at the 30, 42 and 48 inch radial locations. No blade may be consistently high or low at all three stations.

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** -8.0 +-0.5  
**Low Pitch Angle:** 18.0 +-0.1  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 87.0 +-1.0  
**Cwt Angle:** Positive

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u>               | <u>Item Number</u> | <u>Description</u>                | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|--------------------------------|--------------------|-----------------------------------|-----------------|----------------|-----------------|
| BLADE                          | T10282+4           | BLADE                             | 3               | Prop           |                 |
| BLADE                          | T10282N+4          | PCP:BLADE UNIT, ALUM [1,1,1]      | 3               | Prop           |                 |
| BLADE                          | T10282NS+4         | PCP:BLADE UNIT, ALUMINUM          | 3               | Prop           |                 |
| BLADE                          | T10282S+4          | IDS*ITEM, BLADE                   | 3               | Prop           |                 |
| SPINNER                        | C-3065             | SPINNER ASSEMBLY                  | 1               | Prop           |                 |
| SPINNER                        | C-3065-P           | SPINNER ASSEMBLY                  | 1               | Prop           |                 |
| COUNTERWEIGHT SLUG A-3039      |                    | SLUG, COUNTERWEIGHT               | 1               | Blade          |                 |
| COUNTERWEIGHT SLUG A-890-6     |                    | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          | Primary         |
| COUNTERWEIGHT SLUG A-890-8     |                    | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          | Alternate       |
| COUNTERWEIGHT SLUG A-890-9     |                    | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          | Alternate       |
| COUNTERWEIGHT SLUG B-3384-21H  |                    | BOLT, 1/4-28, HEX HEAD            | 2               | Blade          |                 |
| COUNTERWEIGHT SLUG B-3851-0432 |                    | WASHER                            | 2               | Blade          | Optional        |
| COUNTERWEIGHT SLUG B-3851-0463 |                    | WASHER                            | 2               | Blade          | Optional        |
| MTG BOLT/STUD                  | B-3339             | BOLT, MOUNTING, 9/16-18, 12 POINT | 8               | Prop           |                 |

# HARTZELL

## APPLICATION GUIDE 159

### AIR TRACTOR

IDS No.: 1068 Rev.: 6 IC Date: 11/24/2020

**Model:** AT-402B  
**Trade Name:** AIR TRACTOR  
**Aircraft T.C./STC:** A17SW  
**Propeller Model:** HC-B3TN-3D  
**Propeller T.C.:** P15EA  
**Blade Model(s):** T10282+4  
                           T10282N+4  
                           T10282NS+4  
                           T10282S+4  
**Prop Diameter:** 106.5" TO 102.0"

**Modifier:**  
**Engine Model:** PT6A-15AG, -27, -34(AG)  
**Power:** 680 HP @ 2200 RPM  
**Placard/Restr:**

**Notes:** See 8110-3 form dated 13-Oct-95 At the low pitch setting, check blade to blade angles at the 30, 42 and 48 inch radial locations. No blade may be consistently high or low at all three stations.

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** -8.0 +-0.5  
**Low Pitch Angle:** 18.0 +-0.1  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 87.0 +-1.0  
**Cwt Angle:** Positive

#### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:**

#### Hartzell Approved Items:

| Item Type                      | Item Number   | Description                       | Quantity | Qty Per | Comments                 |
|--------------------------------|---------------|-----------------------------------|----------|---------|--------------------------|
| PROPELLER                      | B3N10452      | HC-B3TN-3D/T10282N+4              | 1        | A/C     |                          |
| PROPELLER                      | B3N10461      | HC-B3TN-3D/T10282NS+4             | 1        | A/C     |                          |
| PROPELLER                      | B3N10461KD    | HC-B3TN-3D/T10282NS+4             | 1        | A/C     |                          |
| BLADE                          | T10282+4      | BLADE                             | 3        | Prop    |                          |
| BLADE                          | T10282N+4     | PCP:BLADE UNIT, ALUM [1,1,1]      | 3        | Prop    |                          |
| BLADE                          | T10282NS+4    | PCP:BLADE UNIT, ALUMINUM          | 3        | Prop    |                          |
| BLADE                          | T10282S+4     | IDS*ITEM, BLADE                   | 3        | Prop    |                          |
| SPINNER                        | C-3065        | SPINNER ASSEMBLY                  | 1        | Prop    |                          |
| SPINNER                        | C-3065-P      | SPINNER ASSEMBLY                  | 1        | Prop    |                          |
| SPINNER                        | D-3434-17     | SPINNER ASSEMBLY                  | 1        | Prop    |                          |
| SPINNER                        | D-3434-17P    | SPINNER ASSEMBLY                  | 1        | Prop    |                          |
| COUNTERWEIGHT SLUG A-3039      |               | SLUG, COUNTERWEIGHT               | 1        | Blade   |                          |
| COUNTERWEIGHT SLUG A-890-6     |               | PCP:SLUG, COUNTERWEIGHT           | 1        | Blade   | Primary                  |
| COUNTERWEIGHT SLUG A-890-8     |               | PCP:SLUG, COUNTERWEIGHT           | 1        | Blade   | Alternate                |
| COUNTERWEIGHT SLUG A-890-9     |               | PCP:SLUG, COUNTERWEIGHT           | 1        | Blade   | Alternate                |
| COUNTERWEIGHT SLUG B-3384-21H  |               | BOLT, 1/4-28, HEX HEAD            | 2        | Blade   |                          |
| COUNTERWEIGHT SLUG B-3851-0432 |               | WASHER                            | 2        | Blade   | Optional                 |
| COUNTERWEIGHT SLUG B-3851-0463 |               | WASHER                            | 2        | Blade   | Optional                 |
| MTG BOLT/STUD                  | B-3339        | BOLT, MOUNTING, 9/16-18, 12 POINT | 8        | Prop    |                          |
| OVERHAUL KIT                   | HC-B3TN-3D-OH | O/H KIT                           | 1        | Prop    | For aftermarket use only |

# HARTZELL

## APPLICATION GUIDE 159

### AIR TRACTOR

**Model:** AT-501, AT-502  
**Trade Name:** AIR TRACTOR  
**Aircraft T.C./STC:** EXPERIMENTAL  
**Propeller Model:** HC-B3TW-3  
**Propeller T.C.:** P15EA

**IDS No.:** 1863      **Rev.:** 4      **IC Date:** 10/19/2016  
**Modifier:** TURBINE CONVERSIONS, LTD  
**Engine Model:** M601E-11  
**Power:** 751 HP @ 2080 RPM  
**Placard/Restr:** Propeller blades must be shot peened between stations 7.0 AND 24.0 on both face and camber sides

**Blade Model(s):** T10282NS+4  
**Prop Diameter:**

**Notes:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** -8.0 +-0.5  
**Low Pitch Angle:** 18.0 +-0.1  
**Stud Protrusion** 1.740 +- .010

**Startlock Angle:** NA  
**Feather/High Angle:** 87.0 +-1.0  
**Cwt Angle:** Positive

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:** JILHOSTROJ

**Hartzell Approved Items:**

| <u>Item Type</u>               | <u>Item Number</u> | <u>Description</u>           | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|--------------------------------|--------------------|------------------------------|-----------------|----------------|-----------------|
| PROPELLER                      | B3W10001           | HC-B3TW-3/T10282NS+4         | 1               | A/C            |                 |
| BLADE                          | T10282NS+4         | PCP:BLADE UNIT, ALUMINUM     | 3               | Prop           |                 |
| SPINNER                        | D-3434-6           | SPINNER ASSEMBLY             | 1               | Prop           |                 |
| SPINNER                        | D-3434-6P          | SPINNER ASSEMBLY             | 1               | Prop           |                 |
| COUNTERWEIGHT SLUG A-3039      |                    | SLUG, COUNTERWEIGHT          | 1               | Blade          |                 |
| COUNTERWEIGHT SLUG A-890-6     |                    | PCP:SLUG, COUNTERWEIGHT      | 1               | Blade          | Primary         |
| COUNTERWEIGHT SLUG A-890-8     |                    | PCP:SLUG, COUNTERWEIGHT      | 1               | Blade          | Alternate       |
| COUNTERWEIGHT SLUG A-890-9     |                    | PCP:SLUG, COUNTERWEIGHT      | 1               | Blade          | Alternate       |
| COUNTERWEIGHT SLUG B-3384-21H  |                    | BOLT, 1/4-28, HEX HEAD       | 2               | Blade          |                 |
| COUNTERWEIGHT SLUG B-3851-0432 |                    | WASHER                       | 2               | Blade          | Optional        |
| COUNTERWEIGHT SLUG B-3851-0463 |                    | WASHER                       | 2               | Blade          | Optional        |
| MTG BOLT/STUD                  | A-3254             | STUD, MOUNTING, 9/16-18      | 8               | Prop           |                 |
| MTG BOLT/STUD                  | B-7458             | NUT,9/16-18,HEX,SELF-LOCKING | 8               | Prop           |                 |

# HARTZELL

## APPLICATION GUIDE 159

### AIR TRACTOR

IDS No.: 92      Rev.: 2      D      Date: 06/04/2013

**Model:** AT-502  
**Trade Name:** AIR TRACTOR  
**Aircraft T.C./STC:** A17SW  
**Propeller Model:** HC-B3TN-3D  
**Propeller T.C.:** P15EA  
**Blade Model(s):** T10282+4  
                           T10282N+4  
                           T10282NS+4  
                           T10282S+4  
**Prop Diameter:** 106.5" TO 102"

**Modifier:**  
**Engine Model:** PT6A-34,-34AG, -34B, -36, 15AG, -27  
**Power:** 750 HP @ 2200 RPM  
**Placard/Restr:**

**Notes:** At the low pitch setting, check blade to blade angles at the 30, 42 and 48 inch radial locations. No blade may be consistently high or low at all three stations.

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** -8.0 +-0.5  
**Low Pitch Angle:** 18.0 +-0.1  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 87.0 +-1.0  
**Cwt Angle:** Positive

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u>               | <u>Item Number</u> | <u>Description</u>                | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|--------------------------------|--------------------|-----------------------------------|-----------------|----------------|-----------------|
| BLADE                          | T10282+4           | BLADE                             | 3               | Prop           |                 |
| BLADE                          | T10282N+4          | PCP:BLADE UNIT, ALUM [1,1,1]      | 3               | Prop           |                 |
| BLADE                          | T10282NS+4         | PCP:BLADE UNIT, ALUMINUM          | 3               | Prop           |                 |
| BLADE                          | T10282S+4          | IDS*ITEM, BLADE                   | 3               | Prop           |                 |
| SPINNER                        | C-3065             | SPINNER ASSEMBLY                  | 1               | Prop           |                 |
| SPINNER                        | C-3065-P           | SPINNER ASSEMBLY                  | 1               | Prop           |                 |
| COUNTERWEIGHT SLUG A-3039      |                    | SLUG, COUNTERWEIGHT               | 1               | Blade          |                 |
| COUNTERWEIGHT SLUG A-890-6     |                    | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          | Primary         |
| COUNTERWEIGHT SLUG A-890-8     |                    | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          | Alternate       |
| COUNTERWEIGHT SLUG A-890-9     |                    | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          | Alternate       |
| COUNTERWEIGHT SLUG B-3384-21H  |                    | BOLT, 1/4-28, HEX HEAD            | 2               | Blade          |                 |
| COUNTERWEIGHT SLUG B-3851-0432 |                    | WASHER                            | 2               | Blade          | Optional        |
| COUNTERWEIGHT SLUG B-3851-0463 |                    | WASHER                            | 2               | Blade          | Optional        |
| MTG BOLT/STUD                  | B-3339             | BOLT, MOUNTING, 9/16-18, 12 POINT | 8               | Prop           |                 |



# HARTZELL

## APPLICATION GUIDE

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### AIR TRACTOR

**Model:** AT-502A  
**Trade Name:** AIR TRACTOR  
**Aircraft T.C./STC:** A17SW  
**Propeller Model:** HC-B5MP-3C  
**Propeller T.C.:** P44GL  
**Blade Model(s):** M10876ANS  
M10876AS  
**Prop Diameter:** 111.2" TO 110.7"

**IDS No.:** 1059      **Rev.:** 2      **D**      **Date:** 01/10/2011

**Modifier:**  
**Engine Model:** PT6A-45R, 45A, -45B  
**Power:** 1100 HP @ 1700 RPM  
**Placard/Restr:** Min A/C gross weight = 4940 lbs  
**Notes:** At the low pitch setting, check blade to blade angles at the 36, 42, 48 and 54 inch radial locations. No blade may be consistently high or low at all four stations and all blades must be within 0.2 deg of one another.

#### Prop Setup:

**Ref. Radius:** 42  
**Reverse Angle:** -11.0 +-0.5  
**Low Pitch Angle:** 16.5 +-0.1  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 79.0 +-0.5  
**Cwt Angle:** Positive

#### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:**

#### Hartzell Approved Items:

| <u>Item Type</u>   | <u>Item Number</u> | <u>Description</u>                | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|--------------------|--------------------|-----------------------------------|-----------------|----------------|-----------------|
| BLADE              | M10876ANS          | PCP:BLADE UNIT, ALUMINUM          | 5               | Prop           |                 |
| BLADE              | M10876AS           | BLADE UNIT, ALUMINUM              | 5               | Prop           |                 |
| SPINNER            | D-3434-8           | SPINNER ASSEMBLY                  | 1               | Prop           |                 |
| SPINNER            | D-3434-8P          | SPINNER ASSEMBLY                  | 1               | Prop           |                 |
| SPIN MTG KIT       | B-3384-4           | BOLT, 1/4-28, HEX HEAD            | 10              | Prop           |                 |
| SPIN MTG KIT       | B-3808-4           | NUT,HEX,SELF-LOCKING              | 10              | Prop           |                 |
| SPIN MTG KIT       | B-3851-0463        | WASHER                            | 10              | Prop           |                 |
| COUNTERWEIGHT SLUG | B-3343             | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          |                 |
| COUNTERWEIGHT SLUG | B-3386-14H         | BOLT,3/8-24,HEX HEAD              | 2               | Blade          |                 |
| COUNTERWEIGHT SLUG | B-3834-0632        | WASHER                            | 2               | Blade          |                 |
| MTG BOLT/STUD      | B-3339             | BOLT, MOUNTING, 9/16-18, 12 POINT | 8               | Prop           |                 |

# HARTZELL

## APPLICATION GUIDE

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### AIR TRACTOR

**Model:** AT-502A  
**Trade Name:** AIR TRACTOR  
**Aircraft T.C./STC:** A17SW  
**Propeller Model:** HC-B5MP-3A  
**Propeller T.C.:** P44GL  
**Blade Model(s):** M10282A+6  
M10282AN+6  
M10282ANS+6  
M10282AS+6  
**Prop Diameter:** 111.2" TO 110.7"

#### Prop Setup:

**Ref. Radius:** 42  
**Reverse Angle:** -11.0 +-0.5  
**Low Pitch Angle:** 16.5 +-0.1  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 1217      **Rev.:** -      **DM Date:** 11/16/2009

**Modifier:**

**Engine Model:** PT6A-45A, -45B, -45R

**Power:** 1100 HP @ 1700 RPM

**Placard/Restr:**

**Notes:** At the low pitch setting, check blade to blade angles at the 36, 42 and 48 inch radial locations. No blade may be consistently high or low at all three stations.

**Startlock Angle:** NA

**Feather/High Angle:** 79.0 +-0.5

**Cwt Angle:** POSITIVE

**Non-HPI Governor:**

#### Hartzell Approved Items:

| <u>Item Type</u>   | <u>Item Number</u> | <u>Description</u>                | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|--------------------|--------------------|-----------------------------------|-----------------|----------------|-----------------|
| BLADE              | M10282A+6          | BLADE UNIT, ALUMINUM              | 5               | Prop           |                 |
| BLADE              | M10282AN+6         | PCP:BLADE UNIT, ALUMINUM          | 5               | Prop           |                 |
| BLADE              | M10282ANS+6        | IDS ITEM, BLADE                   | 5               | Prop           |                 |
| BLADE              | M10282AS+6         | IDS*ITEM, BLADE                   | 5               | Prop           |                 |
| SPINNER            | D-3434-8           | SPINNER ASSEMBLY                  | 1               | Prop           |                 |
| SPINNER            | D-3434-8P          | SPINNER ASSEMBLY                  | 1               | Prop           |                 |
| SPIN MTG KIT       | B-3384-4           | BOLT, 1/4-28, HEX HEAD            | 10              | Prop           |                 |
| SPIN MTG KIT       | B-3808-4           | NUT,HEX,SELF-LOCKING              | 10              | Prop           |                 |
| SPIN MTG KIT       | B-3851-0463        | WASHER                            | 10              | Prop           |                 |
| COUNTERWEIGHT SLUG | B-3386-14H         | BOLT,3/8-24,HEX HEAD              | 2               | Blade          |                 |
| COUNTERWEIGHT SLUG | B-3834-0632        | WASHER                            | 2               | Blade          |                 |
| COUNTERWEIGHT SLUG | B-4015             | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          |                 |
| MTG BOLT/STUD      | B-3339             | BOLT, MOUNTING, 9/16-18, 12 POINT | 8               | Prop           |                 |

# HARTZELL

## APPLICATION GUIDE 159

### AIR TRACTOR

**Model:** AT-502B, AT-504  
**Trade Name:** AIR TRACTOR  
**Aircraft T.C./STC:** A17SW  
**Propeller Model:** HC-B3TN-3D  
**Propeller T.C.:** P15EA

**Blade Model(s):** T10282+4  
 T10282N+4  
 T10282NS+4  
 T10282S+4  
**Prop Diameter:** 106.5" to 102"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** -8.0 +-0.5  
**Low Pitch Angle:** 18.0 +-0.1  
**Stud Protrusion**

**IDS No.:** 1069 **Rev.:** 5 **IC Date:** 11/03/2021

**Modifier:**  
**Engine Model:** PT6A-15AG, -27, -34, -34AG, -34B, -36  
**Power:** 750 HP @ 2200 RPM  
**Placard/Restr:** At the low pitch setting, check blade to blade angles at the 30, 42 and 48 inch radial locations. No blade may be consistently high or low at all three stations.  
**Notes:** Engine Ratings Note: PT6A-15AG, -27 (680hp)

**Startlock Angle:** NA  
**Feather/High Angle:** 87.0 +-1.0  
**Cwt Angle:** Positive

#### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:**

#### Hartzell Approved Items:

| <u>Item Type</u>   | <u>Item Number</u> | <u>Description</u>                | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>           |
|--------------------|--------------------|-----------------------------------|-----------------|----------------|---------------------------|
| PROPELLER          | B3N10451           | HC-B3TN-3D/T10282N+4/BULKHEAD     | 1               | A/C            |                           |
| PROPELLER          | B3N10451S          | HC-B3TN-3D/T10282N+4/D-3434-6     | 1               | A/C            |                           |
| PROPELLER          | B3N10453           | HC-B3TN-3D/T10282N+4/BULKHEAD     | 1               | A/C            |                           |
| PROPELLER          | B3N10453S          | HC-B3TN-3D/T10282N+4/D-3434-6P    | 1               | A/C            |                           |
| PROPELLER          | B3N10453SKD        | HC-B3TN-3D/T10282N+4/D-3434-6P    | 1               | A/C            |                           |
| PROPELLER          | B3N10454           | HC-B3TN-3D/T10282NS+4/BULKHEAD    | 1               | A/C            |                           |
| PROPELLER          | B3N10454S          | HC-B3TN-3D/T10282NS+4/3434-17P    | 1               | A/C            |                           |
| PROPELLER          | B3N10454SKD        | HC-B3TN-3D/T10282NS+4/3434-17P    | 1               | A/C            |                           |
| PROPELLER          | B3N10455           | HC-B3TN-3D/T10282NS+4/BULKHEAD    | 1               | A/C            |                           |
| BLADE              | T10282+4           | BLADE                             | 3               | Prop           |                           |
| BLADE              | T10282N+4          | PCP:BLADE UNIT, ALUM [1,1,1]      | 3               | Prop           |                           |
| BLADE              | T10282NS+4         | PCP:BLADE UNIT, ALUMINUM          | 3               | Prop           |                           |
| BLADE              | T10282S+4          | IDS*ITEM, BLADE                   | 3               | Prop           |                           |
| SPINNER            | D-3434-17P         | SPINNER ASSEMBLY                  | 1               | Prop           | w/ Dynamic Balance Holes  |
| SPINNER            | D-3434-6           | SPINNER ASSEMBLY                  | 1               | Prop           |                           |
| SPINNER            | D-3434-6P          | SPINNER ASSEMBLY                  | 1               | Prop           | w/o Dynamic Balance Holes |
| SPIN MTG KIT       | B-3384-4H          | BOLT, 1/4-28, HEX HEAD            | 12              | Prop           |                           |
| SPIN MTG KIT       | B-3808-4           | NUT,HEX,SELF-LOCKING              | 12              | Prop           |                           |
| SPIN MTG KIT       | B-3851-0432        | WASHER                            | 24              | Prop           |                           |
| COUNTERWEIGHT SLUG | A-3039             | SLUG, COUNTERWEIGHT               | 1               | Blade          |                           |
| COUNTERWEIGHT SLUG | A-890-6            | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          | Primary                   |
| COUNTERWEIGHT SLUG | A-890-8            | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          | Alternate                 |
| COUNTERWEIGHT SLUG | A-890-9            | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          | Alternate                 |
| COUNTERWEIGHT SLUG | B-3384-21H         | BOLT, 1/4-28, HEX HEAD            | 2               | Blade          |                           |
| COUNTERWEIGHT SLUG | B-3851-0432        | WASHER                            | 2               | Blade          | Optional                  |
| COUNTERWEIGHT SLUG | B-3851-0463        | WASHER                            | 2               | Blade          | Optional                  |
| MTG BOLT/STUD      | B-3339             | BOLT, MOUNTING, 9/16-18, 12 POINT | 8               | Prop           |                           |
| OVERHAUL KIT       | HC-B3TN-3D-OH      | O/H KIT                           | 1               | Prop           | For aftermarket use only  |

# HARTZELL

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### AIR TRACTOR

**Model:** AT-502B  
**Trade Name:** -  
**Aircraft T.C./STC:**  
**Propeller Model:** HC-B4TN-3C  
**Propeller T.C.:** P40EA

**Blade Model(s):** T10282NS  
**Prop Diameter:** 103"

#### Prop Setup:

**Ref. Radius:** 42  
**Reverse Angle:** -15.0 +/- 0.5  
**Low Pitch Angle:** 11.5 +/- 0.2  
**Stud Protrusion:** -

#### Non-HPI Items:

**Non-HPI Spinner:**

#### Hartzell Approved Items:

**IDS No.:** 2820      **Rev.:** 1      **D**      **Date:** 01/10/2011  
**Modifier:** Wayne Hanson  
**Engine Model:** PT6A-34AG  
**Power:** 750 HP @ 1900 RPM  
**Placard/Restr:** est: Ground operation prohibited below 1150 RPM

#### **Notes:**

**Startlock Angle:** N/A  
**Feather/High Angle:** 82.0 +/- 0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:**

| <u>Item Type</u>               | <u>Item Number</u> | <u>Description</u>                | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|--------------------------------|--------------------|-----------------------------------|-----------------|----------------|-----------------|
| PROPELLER                      | B4N10230           | HC-B4TN-3C/T10282NS               | 1               | A/C            |                 |
| PROPELLER                      | B4N10230S          | HC-B4TN-3C/T10282NS/D-3434-18P    | 1               | A/C            |                 |
| BLADE                          | T10282NS           | PCP:BLADE UNIT, ALUMINUM          | 4               | Prop           |                 |
| SPINNER                        | D-3434-18          | SPINNER ASSEMBLY                  | 1               | Prop           |                 |
| SPINNER                        | D-3434-18P         | SPINNER ASSEMBLY                  | 1               | Prop           |                 |
| COUNTERWEIGHT SLUG A-3039      |                    | SLUG, COUNTERWEIGHT               | 1               | Blade          |                 |
| COUNTERWEIGHT SLUG A-890-6     |                    | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          |                 |
| COUNTERWEIGHT SLUG B-3384-21H  |                    | BOLT, 1/4-28, HEX HEAD            | 2               | Blade          |                 |
| COUNTERWEIGHT SLUG B-3851-0432 |                    | WASHER                            | 2               | Blade          | (Optional)      |
| COUNTERWEIGHT SLUG B-3851-0463 |                    | WASHER                            | 2               | Blade          | (Optional)      |
| MTG BOLT/STUD                  | B-3339             | BOLT, MOUNTING, 9/16-18, 12 POINT | 8               | Prop           |                 |
| MISC ACCES                     | A-3044             | BLOCK, BETA FEEDBACK- ASSEMBLY    | 1               | Prop           |                 |

# HARTZELL

## APPLICATION GUIDE

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### AIR TRACTOR

**Model:** AT-503  
**Trade Name:** AIR TRACTOR  
**Aircraft T.C./STC:** A17SW  
**Propeller Model:** HC-B5MP-3C  
**Propeller T.C.:** P44GL  
**Blade Model(s):** M10876ANS  
M10876AS  
**Prop Diameter:** 111.2" TO 110.7"

**IDS No.:** 93      **Rev.:** 1      **D**      **Date:** 01/07/2011

**Modifier:**  
**Engine Model:** PT6A-45R  
**Power:** 1100 HP @ 1700 RPM  
**Placard/Restr:**

**Notes:** At the low pitch setting, check blade to blade angles at the 36, 42, 48 and 54 inch radial locations. No blade may be consistently high or low at all four stations and all blades must be within 0.2 deg of one another.

#### Prop Setup:

**Ref. Radius:** 42  
**Reverse Angle:** -11.0 +-0.5  
**Low Pitch Angle:** 16.5 +-0.1  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 79.0 +-0.5  
**Cwt Angle:** 2.5 +-1.0

#### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:**

#### Hartzell Approved Items:

| <u>Item Type</u>   | <u>Item Number</u> | <u>Description</u>                | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|--------------------|--------------------|-----------------------------------|-----------------|----------------|-----------------|
| BLADE              | M10876ANS          | PCP:BLADE UNIT, ALUMINUM          | 5               | Prop           |                 |
| BLADE              | M10876AS           | BLADE UNIT, ALUMINUM              | 5               | Prop           |                 |
| SPINNER            | D-3434-8P          | SPINNER ASSEMBLY                  | 1               | Prop           |                 |
| SPIN MTG KIT       | B-3384-4           | BOLT, 1/4-28, HEX HEAD            | 10              | Prop           |                 |
| SPIN MTG KIT       | B-3808-4           | NUT,HEX,SELF-LOCKING              | 10              | Prop           |                 |
| SPIN MTG KIT       | B-3851-0463        | WASHER                            | 10              | Prop           |                 |
| COUNTERWEIGHT SLUG | B-3343             | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          |                 |
| COUNTERWEIGHT SLUG | B-3386-14H         | BOLT,3/8-24,HEX HEAD              | 2               | Blade          |                 |
| COUNTERWEIGHT SLUG | B-3834-0632        | WASHER                            | 2               | Blade          |                 |
| MTG BOLT/STUD      | B-3339             | BOLT, MOUNTING, 9/16-18, 12 POINT | 8               | Prop           |                 |

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### AIR TRACTOR

IDS No.: 1079      Rev.: 2      D      Date: 06/04/2013

**Model:** AT-503A  
**Trade Name:** AIR TRACTOR  
**Aircraft T.C./STC:** A17SW  
**Propeller Model:** HC-B3TN-3D  
**Propeller T.C.:** P15EA  
**Blade Model(s):** T10282+4  
                           T10282N+4  
                           T10282NS+4  
                           T10282S+4  
**Prop Diameter:** 106.5" TO 102"

**Modifier:**  
**Engine Model:** PT6A-34, -34AG  
**Power:** 750 HP @ 2200 RPM  
**Placard/Restr:**

**Notes:** At the low pitch setting, check blade to blade angles at the 30, 42 and 48 inch radial locations. No blade may be consistently high or low at all three stations.

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** -8.0 +-0.5  
**Low Pitch Angle:** 18.0 +-0.1  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 87.0 +-1.0  
**Cwt Angle:** Positive

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u>               | <u>Item Number</u> | <u>Description</u>                | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|--------------------------------|--------------------|-----------------------------------|-----------------|----------------|-----------------|
| BLADE                          | T10282+4           | BLADE                             | 3               | Prop           |                 |
| BLADE                          | T10282N+4          | PCP:BLADE UNIT, ALUM [1,1,1]      | 3               | Prop           |                 |
| BLADE                          | T10282NS+4         | PCP:BLADE UNIT, ALUMINUM          | 3               | Prop           |                 |
| BLADE                          | T10282S+4          | IDS*ITEM, BLADE                   | 3               | Prop           |                 |
| SPINNER                        | C-3065             | SPINNER ASSEMBLY                  | 1               | Prop           |                 |
| SPINNER                        | C-3065-P           | SPINNER ASSEMBLY                  | 1               | Prop           |                 |
| COUNTERWEIGHT SLUG A-3039      |                    | SLUG, COUNTERWEIGHT               | 1               | Blade          |                 |
| COUNTERWEIGHT SLUG A-890-6     |                    | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          | Primary         |
| COUNTERWEIGHT SLUG A-890-8     |                    | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          | Alternate       |
| COUNTERWEIGHT SLUG A-890-9     |                    | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          | Alternate       |
| COUNTERWEIGHT SLUG B-3384-21H  |                    | BOLT, 1/4-28, HEX HEAD            | 2               | Blade          |                 |
| COUNTERWEIGHT SLUG B-3851-0432 |                    | WASHER                            | 2               | Blade          | Optional        |
| COUNTERWEIGHT SLUG B-3851-0463 |                    | WASHER                            | 2               | Blade          | Optional        |
| MTG BOLT/STUD                  | B-3339             | BOLT, MOUNTING, 9/16-18, 12 POINT | 8               | Prop           |                 |

# HARTZELL

## APPLICATION GUIDE

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### AIR TRACTOR

**Model:** AT-602  
**Trade Name:** AIR TRACTOR  
**Aircraft T.C./STC:** A19SW  
  
**Propeller Model:** HC-B5MP-3C  
**Propeller T.C.:** P44GL  
**Blade Model(s):** M10876ANS  
M10876AS  
**Prop Diameter:** 111.2" TO 110.7

**IDS No.:** 1442      **Rev.:** 3      **IC Date:** 07/06/2015

**Modifier:**  
**Engine Model:** PT6A-45R, -60AG, -65AR, -65B, -65R, -65AG

**Power:** 1050 HP @ 1700 RPM

**Placard/Restr:**

**Notes:** At the low pitch setting, check blade to blade angles at the 36, 42, 48 and 54 inch radial locations. No blade may be consistently high or low at all four stations and all blades must be within 0.2 deg of one another.

#### Prop Setup:

**Ref. Radius:** 42  
**Reverse Angle:** -11.0 +/-0.5  
**Low Pitch Angle:** 16.5 +/-0.1  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 79.0 +/-0.5  
**Cwt Angle:** Positive

#### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:**

#### Hartzell Approved Items:

| <u>Item Type</u>   | <u>Item Number</u> | <u>Description</u>                | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|--------------------|--------------------|-----------------------------------|-----------------|----------------|--------------------------|
| PROPELLER          | B5P10108S          | HC-B5MP-3C/M10876ANS/D-3434-8P    | 1               | A/C            |                          |
| PROPELLER          | B5P10108SKD        | HC-B5MP-3C/M10876ANS/D-3434-8P    | 1               | A/C            |                          |
| BLADE              | M10876ANS          | PCP:BLADE UNIT, ALUMINUM          | 5               | Prop           |                          |
| BLADE              | M10876AS           | BLADE UNIT, ALUMINUM              | 5               | Prop           |                          |
| SPINNER            | D-3434-8           | SPINNER ASSEMBLY                  | 1               | Prop           |                          |
| SPINNER            | D-3434-8P          | SPINNER ASSEMBLY                  | 1               | Prop           |                          |
| SPIN MTG KIT       | B-3384-4           | BOLT, 1/4-28, HEX HEAD            | 10              | Prop           |                          |
| SPIN MTG KIT       | B-3808-4           | NUT, HEX, SELF-LOCKING            | 10              | Prop           |                          |
| SPIN MTG KIT       | B-3851-0463        | WASHER                            | 10              | Prop           |                          |
| COUNTERWEIGHT SLUG | B-3343             | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          |                          |
| COUNTERWEIGHT SLUG | B-3386-14H         | BOLT, 3/8-24, HEX HEAD            | 2               | Blade          |                          |
| COUNTERWEIGHT SLUG | B-3834-0632        | WASHER                            | 2               | Blade          |                          |
| MTG BOLT/STUD      | B-3339             | BOLT, MOUNTING, 9/16-18, 12 POINT | 8               | Prop           |                          |
| OVERHAUL KIT       | HC-B5MP-3C-OH      | O/H KIT                           | 1               | Prop           | For aftermarket use only |

# HARTZELL

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### AIR TRACTOR

**Model:** AT-802  
**Trade Name:** AIR TRACTOR  
**Aircraft T.C./STC:** A19SW  
**Propeller Model:** HC-B5MP-3F  
**Propeller T.C.:** P44GL  
**Blade Model(s):** M11276NS  
**Prop Diameter:** 115.2" TO 114.7"

IDS No.: 1642      Rev.: 2      IC      Date: 07/06/2015

**Modifier:**  
**Engine Model:** PT6A-65AG  
**Power:** 1295 HP @ 1700 RPM  
**Placard/Restr:**

**Notes:** At the low pitch setting, check blade to blade angles at the 36, 42, 48 and 54 inch radial locations. No blade may be consistently high or low at all four stations and all blades must be within 0.2 deg of one another.

#### Prop Setup:

**Ref. Radius:** 42  
**Reverse Angle:** -10.0 +-0.5  
**Low Pitch Angle:** 13.9 +-0.1  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 83.1 +-0.5  
**Cwt Angle:** 2.0 +-1.0

#### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:**

#### Hartzell Approved Items:

| <u>Item Type</u>   | <u>Item Number</u> | <u>Description</u>                | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|--------------------|--------------------|-----------------------------------|-----------------|----------------|--------------------------|
| PROPELLER          | B5P10311           | HC-B5MP-3F/M11276NS               | 1               | A/C            |                          |
| PROPELLER          | B5P10311S          | HC-B5MP-3F/M11276NS/E-7256-P      | 1               | A/C            |                          |
| PROPELLER          | B5P10311SKD        | HC-B5MP-3F/M11276NS/E-7256-P      | 1               | A/C            |                          |
| BLADE              | M11276NS           | PCP:BLADE UNIT, ALUMINUM          | 5               | Prop           |                          |
| SPINNER            | E-7256             | SPINNER ASSEMBLY                  | 1               | Prop           |                          |
| SPINNER            | E-7256-P           | SPINNER ASSEMBLY                  | 1               | Prop           |                          |
| SPIN MTG KIT       | B-3384-6H          | BOLT, 1/4-28, HEX HEAD            | 10              | Prop           |                          |
| SPIN MTG KIT       | B-3808-4           | NUT,HEX,SELF-LOCKING              | 10              | Prop           |                          |
| SPIN MTG KIT       | B-3851-0463        | WASHER                            | 10              | Prop           |                          |
| COUNTERWEIGHT SLUG | B-3386-14H         | BOLT,3/8-24,HEX HEAD              | 2               | Blade          |                          |
| COUNTERWEIGHT SLUG | B-3663-4           | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          |                          |
| COUNTERWEIGHT SLUG | B-3834-0632        | WASHER                            | 2               | Blade          |                          |
| MTG BOLT/STUD      | B-3339             | BOLT, MOUNTING, 9/16-18, 12 POINT | 8               | Prop           |                          |
| OVERHAUL KIT       | HC-B5MP-3F-OH      | O/H KIT                           | 1               | Prop           | For aftermarket use only |



# HARTZELL

## APPLICATION GUIDE

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### AIR TRACTOR

**Model:** AT-802  
**Trade Name:** AIR TRACTOR  
**Aircraft T.C./STC:** A19SW  
**Propeller Model:** HC-B5MP-3C  
**Propeller T.C.:** P44GL  
**Blade Model(s):** M10876ANS  
M10876AS  
**Prop Diameter:** 111.2" TO 110.7

**IDS No.:** 95      **Rev.:** 3      **IC Date:** 07/09/2018

**Modifier:**  
**Engine Model:** PT6A-65R, -65AG  
**Power:** 1295 HP @ 1700 RPM  
**Placard/Restr:**

**Notes:** Engine Ratings Note: PT6A-65B, -45R (1173hp) At the low pitch setting, check blade to blade angles at the 36, 42, 48 and 54 inch radial locations. No blade may be consistently high or low at all four stations and all blades must be within 0.2 deg of one another.

#### Prop Setup:

**Ref. Radius:** 42  
**Reverse Angle:** -11.0 +/-0.5  
**Low Pitch Angle:** 16.5 +/-0.1  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 79.0 +/-0.5  
**Cwt Angle:** Positive

#### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:**

#### Hartzell Approved Items:

| Item Type          | Item Number   | Description                       | Quantity | Qty Per | Comments                 |
|--------------------|---------------|-----------------------------------|----------|---------|--------------------------|
| PROPELLER          | B5P10105      | HC-B5MP-3C/M10876ANS/BULKHEAD     | 1        | A/C     |                          |
| PROPELLER          | B5P10105S     | HC-B5MP-3C/M10876ANS/D-3434-8P    | 1        | A/C     |                          |
| PROPELLER          | B5P10105SKD   | HC-B5MP-3C/M10876ANS/D-3434-8P    | 0        |         |                          |
| PROPELLER          | B5P10109S     | HC-B5MP-3C/M10876ANS/D3434-21P    | 1        | A/C     |                          |
| PROPELLER          | B5P10109SKD   | HC-B5MP-3C/M10876ANS/D3434-21P    | 1        | A/C     |                          |
| BLADE              | M10876ANS     | PCP:BLADE UNIT, ALUMINUM          | 5        | Prop    |                          |
| BLADE              | M10876AS      | BLADE UNIT, ALUMINUM              | 5        | Prop    |                          |
| SPINNER            | D-3434-21     | SPINNER ASSEMBLY                  | 1        | Prop    |                          |
| SPINNER            | D-3434-21P    | SPINNER ASSEMBLY                  | 1        | Prop    |                          |
| SPINNER            | D-3434-8      | SPINNER ASSEMBLY                  | 1        | Prop    |                          |
| SPINNER            | D-3434-8P     | SPINNER ASSEMBLY                  | 1        | Prop    |                          |
| SPIN MTG KIT       | B-3384-4      | BOLT, 1/4-28, HEX HEAD            | 10       | Prop    |                          |
| SPIN MTG KIT       | B-3808-4      | NUT, HEX, SELF-LOCKING            | 10       | Prop    |                          |
| SPIN MTG KIT       | B-3851-0463   | WASHER                            | 10       | Prop    |                          |
| COUNTERWEIGHT SLUG | B-3343        | PCP:SLUG, COUNTERWEIGHT           | 1        | Blade   |                          |
| COUNTERWEIGHT SLUG | B-3386-14H    | BOLT, 3/8-24, HEX HEAD            | 2        | Blade   |                          |
| COUNTERWEIGHT SLUG | B-3834-0632   | WASHER                            | 2        | Blade   |                          |
| MTG BOLT/STUD      | B-3339        | BOLT, MOUNTING, 9/16-18, 12 POINT | 8        | Prop    |                          |
| MISC ACCES         | A-3044        | BLOCK, BETA FEEDBACK- ASSEMBLY    | 2        | Prop    |                          |
| OVERHAUL KIT       | HC-B5MP-3C-OH | O/H KIT                           | 1        | Prop    | For aftermarket use only |

# HARTZELL

## APPLICATION GUIDE

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### AIR TRACTOR

**Model:** AT-802  
**Trade Name:** AIR TRACTOR  
**Aircraft T.C./STC:** A19SW  
**Propeller Model:** HC-B5MA-3D  
**Propeller T.C.:** P44GL  
**Blade Model(s):** M11276  
M11276N  
M11276NS  
M11276S  
**Prop Diameter:** 115.2" TO 114.7"

**IDS No.:** 94      **Rev.:** 2      **IC Date:** 07/06/2015

**Modifier:**  
**Engine Model:** PT6A-67R, -67AF, -67AG  
**Power:** 1424 HP @ 1700 RPM  
**Placard/Restr:**

**Notes:** At the low pitch setting, check blade to blade angles at the 36, 42, 48 and 54 inch radial locations. No blade may be consistently high or low at all four stations and all blades must be within 0.2 deg of one another.

#### Prop Setup:

**Ref. Radius:** 42  
**Reverse Angle:** -10.0 +-0.5  
**Low Pitch Angle:** 13.9 +-0.1  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 83.1 +-0.5  
**Cwt Angle:** 2.0 +-1.0

#### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:**

#### Hartzell Approved Items:

| <u>Item Type</u>   | <u>Item Number</u> | <u>Description</u>                | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|--------------------|--------------------|-----------------------------------|-----------------|----------------|--------------------------|
| PROPELLER          | B5A10030S          | HC-B5MA-3D/M11276N/D-5497-P       | 1               | A/C            |                          |
| PROPELLER          | B5A10031           | HC-B5MA-3D/M11276NS/D-5498-P      | 1               | A/C            |                          |
| PROPELLER          | B5A10031S          | HC-B5MA-3D/M11276NS/D-5497-P      | 1               | A/C            |                          |
| PROPELLER          | B5A10032           | HC-B5MA-3D/M11276N/D-5498-P       | 1               | A/C            |                          |
| PROPELLER          | B5A10032KD         | HC-B5MA-3D/M11276N/D-5498-P       | 1               | A/C            |                          |
| BLADE              | M11276             | BLADE UNIT, ALUMINUM              | 5               | Prop           |                          |
| BLADE              | M11276N            | PCP:BLADE UNIT, ALUMINUM          | 5               | Prop           |                          |
| BLADE              | M11276NS           | PCP:BLADE UNIT, ALUMINUM          | 5               | Prop           |                          |
| BLADE              | M11276S            | BLADE                             | 5               | Prop           |                          |
| SPINNER            | D-5497-P           | SPINNER ASSEMBLY                  | 1               | Prop           |                          |
| SPIN MTG KIT       | B-3384-5H          | BOLT, 1/4-28, HEX HEAD            | 10              | Prop           |                          |
| SPIN MTG KIT       | B-3808-4           | NUT, HEX, SELF-LOCKING            | 10              | Prop           |                          |
| SPIN MTG KIT       | B-3851-0463        | WASHER                            | 10              | Prop           |                          |
| COUNTERWEIGHT SLUG | B-3386-14H         | BOLT, 3/8-24, HEX HEAD            | 2               | Blade          |                          |
| COUNTERWEIGHT SLUG | B-3663-4           | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          |                          |
| COUNTERWEIGHT SLUG | B-3834-0632        | WASHER                            | 2               | Blade          |                          |
| MTG BOLT/STUD      | B-3347             | BOLT, MOUNTING, 9/16-18, 12 POINT | 12              | Prop           |                          |
| OVERHAUL KIT       | HC-B5MA-3D-OH      | O/H KIT                           | 1               | Prop           | For aftermarket use only |

# HARTZELL

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### AIR TRACTOR

**Model:** AT-802  
**Trade Name:** AIR TRACTOR  
**Aircraft T.C./STC:** A19SW  
**Propeller Model:** HC-B5MA-3D  
**Propeller T.C.:** P44GL

**IDS No.:** 1789      **Rev.:** 6      **IC Date:** 07/06/2015

**Modifier:**  
**Engine Model:** PT6A-67R, -67AF, -67AG  
**Power:** 1424 HP @ 1700 RPM  
**Placard/Restr:** Stabilized ground operation is prohibited between 400 and 900 RPM. The propeller may be operated when feathered at or below 400 RPM. Stabilized ground operation is prohibited above 1600 RPM except when the aircraft is headed into the wind. For downwind takeoffs, advance above 1600 RPM only after brake release.

**Blade Model(s):** M11691NS  
**Prop Diameter:** 118.7" TO 118.2"

**Notes:** Engine Ratings Note: PT6A-67F,-67AG (1350hp) At the low pitch setting, check blade to blade angles at the 36, 42, 48 and 54 inch radial locations. No blade may be consistently high or low at all four stations and all blades must be within 0.2 deg of one another.

#### Prop Setup:

**Ref. Radius:** 42  
**Reverse Angle:** -10.0 +/-0.5  
**Low Pitch Angle:** 13.9 +/-0.1  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 84.0 +/-0.5  
**Cwt Angle:** 2.0 +/-1.0

#### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:**

#### Hartzell Approved Items:

| <u>Item Type</u>   | <u>Item Number</u> | <u>Description</u>             | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|--------------------|--------------------|--------------------------------|-----------------|----------------|--------------------------|
| PROPELLER          | B5A10247           | HC-B5MA-3D/M11691NS            | 1               | A/C            |                          |
| PROPELLER          | B5A10247S          | HC-B5MA-3D/M11691NS/D-5497-P   | 1               | A/C            |                          |
| PROPELLER          | B5A10249S          | HC-B5MA-3D/M11691NS/D-5497     | 1               | A/C            |                          |
| PROPELLER          | B5A10249SKD        | HC-B5MA-3D/M11691NS/D-5497     | 1               | A/C            |                          |
| BLADE              | M11691NS           | PCP:BLADE UNIT, ALUMINUM       | 5               | Prop           |                          |
| SPINNER            | D-5497             | SPINNER ASSEMBLY               | 1               | Prop           |                          |
| SPINNER            | D-5497-P           | SPINNER ASSEMBLY               | 1               | Prop           |                          |
| SPIN MTG KIT       | B-3384-5H          | BOLT, 1/4-28, HEX HEAD         | 10              | Prop           |                          |
| SPIN MTG KIT       | B-3808-4           | NUT,HEX,SELF-LOCKING           | 10              | Prop           |                          |
| SPIN MTG KIT       | B-3851-0463        | WASHER                         | 10              | Prop           |                          |
| COUNTERWEIGHT SLUG | B-3386-14H         | BOLT,3/8-24,HEX HEAD           | 2               | Blade          |                          |
| COUNTERWEIGHT SLUG | B-3663-4           | PCP:SLUG, COUNTERWEIGHT        | 1               | Blade          |                          |
| COUNTERWEIGHT SLUG | B-3834-0632        | WASHER                         | 2               | Blade          |                          |
| MTG BOLT/STUD      | B-3347             | BOLT,MOUNTING,9/16-18,12 POINT | 12              | Prop           |                          |
| OVERHAUL KIT       | HC-B5MA-3D-OH      | O/H KIT                        | 1               | Prop           | For aftermarket use only |

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### AIR TRACTOR

**Model:** AT-802  
**Trade Name:** AIR TRACTOR  
**Aircraft T.C./STC:** A19SW  
**Propeller Model:** HC-B5MA-3DT  
**Propeller T.C.:** P44GL  
**Blade Model(s):** M11276NS  
**Prop Diameter:** 115.2" TO 114.7"

**IDS No.:** 2449      **Rev.:** 2      **IC Date:** 07/06/2015

**Modifier:**  
**Engine Model:** PT6A-67R, -67AF, -67AG  
**Power:** 1424 HP @ 1700 RPM  
**Placard/Restr:**

**Notes:** At the low pitch setting, check blade to blade angles at the 36, 42, 48 and 54 inch radial locations. No blade may be consistently high or low at all four stations and all blades must be within 0.2 deg. of one another.

#### Prop Setup:

**Ref. Radius:** 42  
**Reverse Angle:** -10.0 +-0.5  
**Low Pitch Angle:** 13.9 +-0.1  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 83.1 +-0.5  
**Cwt Angle:** 2.0 +-1.0

#### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:**

#### Hartzell Approved Items:

| <u>Item Type</u>   | <u>Item Number</u> | <u>Description</u>                | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|--------------------|--------------------|-----------------------------------|-----------------|----------------|--------------------------|
| PROPELLER          | B5A10033           | HC-B5MA-3DT/M11276NS/BULKHEAD     | 1               | A/C            |                          |
| PROPELLER          | B5A10033KD         | HC-B5MA-3DT/M11276NS/BULKHEAD     | 1               | A/C            |                          |
| PROPELLER          | B5A10033S          | HC-B5MA-3DT/M11276NS/D-5497       | 1               | A/C            |                          |
| PROPELLER          | B5A10033SKD        | HC-B5MA-3DT/M11276NS/D-5497       | 1               | A/C            |                          |
| BLADE              | M11276NS           | PCP:BLADE UNIT, ALUMINUM          | 5               | Prop           |                          |
| SPINNER            | D-5497             | SPINNER ASSEMBLY                  | 1               | A/C            |                          |
| SPIN MTG KIT       | B-3384-5H          | BOLT, 1/4-28, HEX HEAD            | 10              | Prop           |                          |
| SPIN MTG KIT       | B-3808-4           | NUT, HEX, SELF-LOCKING            | 10              | Prop           |                          |
| SPIN MTG KIT       | B-3851-0463        | WASHER                            | 10              | Prop           |                          |
| COUNTERWEIGHT SLUG | B-3386-14H         | BOLT, 3/8-24, HEX HEAD            | 2               | Blade          |                          |
| COUNTERWEIGHT SLUG | B-3663-4           | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          |                          |
| COUNTERWEIGHT SLUG | B-3834-0632        | WASHER                            | 2               | Blade          |                          |
| MTG BOLT/STUD      | B-3347             | BOLT, MOUNTING, 9/16-18, 12 POINT | 12              | Prop           |                          |
| MISC ACCES         | A-3044             | BLOCK, BETA FEEDBACK- ASSEMBLY    | 2               | Prop           |                          |
| OVERHAUL KIT       | HC-B5MA-3D-OH      | O/H KIT                           | 1               | Prop           | For aftermarket use only |

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### AIR TRACTOR

**Model:** AT-802  
**Trade Name:** AIR TRACTOR  
**Aircraft T.C./STC:** A19SW  
**Propeller Model:** HC-B5MA-3DT  
**Propeller T.C.:** P44GL  
**Blade Model(s):** M11691NS  
**Prop Diameter:** 118.7" TO 118.2"

**IDS No.:** 2651      **Rev.:** 2      **IC Date:** 07/06/2015

**Modifier:**  
**Engine Model:** PT6A-67R, -67AF, -67AG  
**Power:** 1424 HP @ 1700 RPM  
**Placard/Restr:**

**Notes:** At the low pitch setting, check blade to blade angles at the 36, 42, 48 and 54 inch radial locations. No blade may be consistently high or low at all four stations and all blades must be within 0.2 deg. of one another.

#### Prop Setup:

**Ref. Radius:** 42  
**Reverse Angle:** -10.0 +-0.5  
**Low Pitch Angle:** 13.9 +-0.1

**Startlock Angle:** NA  
**Feather/High Angle:** 84.0 +-0.5  
**Cwt Angle:** 2.0 +-1.0

**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:**

#### Hartzell Approved Items:

| <u>Item Type</u>   | <u>Item Number</u> | <u>Description</u>                | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|--------------------|--------------------|-----------------------------------|-----------------|----------------|--------------------------|
| PROPELLER          | B5A10034           | HC-B5MA-3DT/M11691NS/BULKHEAD     | 1               | A/C            |                          |
| PROPELLER          | B5A10034KD         | HC-B5MA-3DT/M11691NS/BULKHEAD     | 1               | A/C            |                          |
| PROPELLER          | B5A10034S          | HC-B5MA-3DT/M11691NS/D-5497       | 1               | A/C            |                          |
| PROPELLER          | B5A10034SKD        | HC-B5MA-3DT/M11691NS/D-5497       | 1               | A/C            |                          |
| BLADE              | M11691NS           | PCP:BLADE UNIT, ALUMINUM          | 5               | Prop           |                          |
| SPINNER            | D-5497             | SPINNER ASSEMBLY                  | 1               | Prop           |                          |
| SPIN MTG KIT       | B-3384-5H          | BOLT, 1/4-28, HEX HEAD            | 10              | Prop           |                          |
| SPIN MTG KIT       | B-3808-4           | NUT, HEX, SELF-LOCKING            | 10              | Prop           |                          |
| SPIN MTG KIT       | B-3851-0463        | WASHER                            | 10              | Prop           |                          |
| COUNTERWEIGHT SLUG | B-3386-14H         | BOLT, 3/8-24, HEX HEAD            | 2               | Blade          |                          |
| COUNTERWEIGHT SLUG | B-3663-4           | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          |                          |
| COUNTERWEIGHT SLUG | B-3834-0632        | WASHER                            | 2               | Blade          |                          |
| MTG BOLT/STUD      | B-3347             | BOLT, MOUNTING, 9/16-18, 12 POINT | 12              | Prop           |                          |
| OVERHAUL KIT       | HC-B5MA-3D-OH      | O/H KIT                           | 1               | Prop           | For aftermarket use only |

# HARTZELL

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### AIR TRACTOR

**Model:** AT-802  
**Trade Name:** AIR TRACTOR  
**Aircraft T.C./STC:** A19SW  
**Propeller Model:** HC-B5MA-3D  
**Propeller T.C.:** P44GL

**Blade Model(s):** M11276NA  
M11276NSA  
**Prop Diameter:** 115.2" TO 114.2"

**IDS No.:** 2474      **Rev.:** 2      **IC Date:** 07/06/2015

**Modifier:**  
**Engine Model:** PT6A-67R,-67AF,-67AG

**Power:** 1424 HP @ 1700 RPM

**Placard/Restr:** Stabilized ground operation is prohibited between 400 and 950 RPM and between 1050 and 1250 RPM. Stabilized ground operation is prohibited above 1600 RPM except when the aircraft is headed into the wind. For downwind takeoffs, advance above 1600 RPM only after brake release.

**Notes:** At the low pitch setting, check blade to blade angles at the 36,42,48 & 54 inch radial locations. No blade may be consistently high or low at all four stations and all blades must be within 0.2 degree of one another.

#### Prop Setup:

**Ref. Radius:** 42  
**Reverse Angle:** -10.0 +-0.5  
**Low Pitch Angle:** 13.9 +-0.1  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 83.1 +-0.5  
**Cwt Angle:** 2.0 +-1.0

#### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:**

#### Hartzell Approved Items:

| <u>Item Type</u>   | <u>Item Number</u> | <u>Description</u>                | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|--------------------|--------------------|-----------------------------------|-----------------|----------------|--------------------------|
| PROPELLER          | B5A10040S          | HC-B5MA-3D/M11276NA/D-5497-P      | 1               | A/C            |                          |
| PROPELLER          | B5A10041           | HC-B5MA-3D/M11276NSA/BULKHEAD     | 1               | A/C            |                          |
| PROPELLER          | B5A10041S          | HC-B5MA-3D/M11276NSA/D-5497-P     | 1               | A/C            |                          |
| PROPELLER          | B5A10042           | HC-B5MA-3D/M11276NA/BULKHEAD      | 1               | A/C            |                          |
| PROPELLER          | B5A10042KD         | HC-B5MA-3D/M11276NA/BULKHEAD      | 1               | A/C            |                          |
| BLADE              | M11276NA           | PCP:BLADE UNIT, ALUMINUM          | 5               | Prop           |                          |
| BLADE              | M11276NSA          | PCP:BLADE UNIT, ALUMINUM          | 5               | Prop           |                          |
| SPINNER            | D-5497-P           | SPINNER ASSEMBLY                  | 1               | Prop           |                          |
| SPIN MTG KIT       | B-3384-5H          | BOLT, 1/4-28, HEX HEAD            | 10              | Prop           |                          |
| SPIN MTG KIT       | B-3808-4           | NUT, HEX, SELF-LOCKING            | 10              | Prop           |                          |
| SPIN MTG KIT       | B-3851-0463        | WASHER                            | 10              | Prop           |                          |
| COUNTERWEIGHT SLUG | B-3386-14H         | BOLT, 3/8-24, HEX HEAD            | 2               | Blade          |                          |
| COUNTERWEIGHT SLUG | B-3663-4           | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          |                          |
| COUNTERWEIGHT SLUG | B-3834-0632        | WASHER                            | 2               | Blade          |                          |
| MTG BOLT/STUD      | B-3347             | BOLT, MOUNTING, 9/16-18, 12 POINT | 12              | Prop           |                          |
| OVERHAUL KIT       | HC-B5MA-3D-OH      | O/H KIT                           | 1               | Prop           | For aftermarket use only |

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### AIR TRACTOR

**Model:** AT-802  
**Trade Name:** AIR TRACTOR  
**Aircraft T.C./STC:** A19SW  
**Propeller Model:** HC-B5MP-3F  
**Propeller T.C.:** P44GL

**Blade Model(s):** M11276NSA  
**Prop Diameter:** 115.2" TO 114.2"

**IDS No.:** 2539      **Rev.:** 2      **IC Date:** 07/06/2015

**Modifier:**  
**Engine Model:** PT6A-65AG  
**Power:** 1295 HP @ 1700 RPM  
**Placard/Restr:** Stabilized ground operation is prohibited between 400 and 950 RPM and between 1050 and 1250 RPM. Stabilized ground operation is prohibited above 1600 RPM except when the aircraft is headed into the wind. For downwind takeoffs, advance above 1600 RPM only after brake release.

**Notes:** At the low pitch setting, check blade to blade angles at the 36, 42, 48 and 54 inch radial locations. No blade may be consistently high or low at all four stations and all blades must be within 0.2 deg. of one another.

#### Prop Setup:

**Ref. Radius:** 42  
**Reverse Angle:** -10.0 +-0.5  
**Low Pitch Angle:** 13.9 +-0.1  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 83.1 +-0.5  
**Cwt Angle:** 2.0 +-1.0

#### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:**

#### Hartzell Approved Items:

| <u>Item Type</u>   | <u>Item Number</u> | <u>Description</u>                | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|--------------------|--------------------|-----------------------------------|-----------------|----------------|--------------------------|
| PROPELLER          | B5P10316           | HC-B5MP-3F/M11276NSA              | 1               | A/C            |                          |
| PROPELLER          | B5P10316S          | HC-B5MP-3F/M11276NSA/E-7256-P     | 1               | A/C            |                          |
| PROPELLER          | B5P10316SKD        | HC-B5MP-3F/M11276NSA/E-7256-P     | 1               | A/C            |                          |
| BLADE              | M11276NSA          | PCP:BLADE UNIT, ALUMINUM          | 5               | Prop           |                          |
| SPINNER            | E-7256             | SPINNER ASSEMBLY                  | 1               | Prop           |                          |
| SPINNER            | E-7256-P           | SPINNER ASSEMBLY                  | 1               | Prop           |                          |
| SPIN MTG KIT       | B-3384-6H          | BOLT, 1/4-28, HEX HEAD            | 10              | Prop           |                          |
| SPIN MTG KIT       | B-3808-4           | NUT, HEX, SELF-LOCKING            | 10              | Prop           |                          |
| SPIN MTG KIT       | B-3851-0463        | WASHER                            | 10              | Prop           |                          |
| COUNTERWEIGHT SLUG | B-3386-14H         | BOLT, 3/8-24, HEX HEAD            | 2               | Blade          |                          |
| COUNTERWEIGHT SLUG | B-3663-4           | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          |                          |
| COUNTERWEIGHT SLUG | B-3834-0632        | WASHER                            | 2               | Blade          |                          |
| MTG BOLT/STUD      | B-3339             | BOLT, MOUNTING, 9/16-18, 12 POINT | 8               | Prop           |                          |
| OVERHAUL KIT       | HC-B5MP-3F-OH      | O/H KIT                           | 1               | Prop           | For aftermarket use only |

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### AIR TRACTOR

**Model:** AT-802  
**Trade Name:** AIR TRACTOR  
**Aircraft T.C./STC:** A19SW  
**Propeller Model:** HC-B5MA-3DT  
**Propeller T.C.:** P44GL

**Blade Model(s):** M11276NSA  
**Prop Diameter:** 115.2" TO 114.2"

**IDS No.:** 2545      **Rev.:** 2      **IC Date:** 07/06/2015

**Modifier:**  
**Engine Model:** PT6A-67R,-67AF,-67AG  
**Power:** 1424 HP @ 1700 RPM  
**Placard/Restr:** Stabilized ground operation is prohibited between 400 and 950 RPM and between 1050 and 1250 RPM. Stabilized ground operation is prohibited above 1600 RPM except when aircraft is headed into the wind. For downwind takeoffs, advance above 1600 RPM only after brake release.

**Notes:** At the low pitch setting, check blade to blade angles at the 36, 42, 48 and 54 inch radial locations. No blade may be consistently high or low at all four stations and all blades must be within 0.2 deg. of one another.

#### Prop Setup:

**Ref. Radius:** 42  
**Reverse Angle:** -10.0 +-0.5  
**Low Pitch Angle:** 13.9 +-0.1  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 83.1 +-0.5  
**Cwt Angle:** 2.0 +-1.0

#### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:**

#### Hartzell Approved Items:

| <u>Item Type</u>   | <u>Item Number</u> | <u>Description</u>             | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|--------------------|--------------------|--------------------------------|-----------------|----------------|--------------------------|
| PROPELLER          | B5A10043           | HC-B5MA-3DT/M11276NSA/BULKHEAD | 1               | A/C            |                          |
| PROPELLER          | B5A10043KD         | HC-B5MA-3DT/M11276NSA/BULKHEAD | 1               | A/C            |                          |
| PROPELLER          | B5A10043S          | HC-B5MA-3DT/M11276NSA/D-5497   | 1               | A/C            |                          |
| PROPELLER          | B5A10043SKD        | HC-B5MA-3DT/M11276NSA/D-5497   | 1               | A/C            |                          |
| BLADE              | M11276NSA          | PCP:BLADE UNIT, ALUMINUM       | 5               | Prop           |                          |
| SPINNER            | D-5497             | SPINNER ASSEMBLY               | 1               | A/C            |                          |
| SPIN MTG KIT       | B-3384-5H          | BOLT, 1/4-28, HEX HEAD         | 10              | Prop           |                          |
| SPIN MTG KIT       | B-3808-4           | NUT,HEX,SELF-LOCKING           | 10              | Prop           |                          |
| SPIN MTG KIT       | B-3851-0463        | WASHER                         | 10              | Prop           |                          |
| COUNTERWEIGHT SLUG | B-3386-14H         | BOLT,3/8-24,HEX HEAD           | 2               | Blade          |                          |
| COUNTERWEIGHT SLUG | B-3663-4           | PCP:SLUG, COUNTERWEIGHT        | 1               | Blade          |                          |
| COUNTERWEIGHT SLUG | B-3834-0632        | WASHER                         | 2               | Blade          |                          |
| MTG BOLT/STUD      | B-3347             | BOLT,MOUNTING,9/16-18,12 POINT | 12              | Prop           |                          |
| MISC ACCES         | A-3044             | BLOCK, BETA FEEDBACK- ASSEMBLY | 2               | Prop           |                          |
| OVERHAUL KIT       | HC-B5MA-3D-OH      | O/H KIT                        | 1               | Prop           | For aftermarket use only |



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### AIRCRAFT ACQUISITION CORP.

Model: see HELIO

Trade Name:

Aircraft T.C./STC:

Propeller Model:

Propeller T.C.:

Blade Model(s):

Prop Diameter:

#### Prop Setup:

Ref. Radius:

Reverse Angle:

Low Pitch Angle:

Stud Protrusion

#### Non-HPI Items:

Non-HPI Spinner:

#### Hartzell Approved Items:

IDS No.: 1488

Rev.: -

DM Date: 11/30/1997

Modifier:

Engine Model:

Power: HP @ RPM

Placard/Restr:

Notes:

Startlock Angle:

Feather/High Angle:

Cwt Angle:

Non-HPI Governor:

### AIRCRAFT DESIGNS INC.

Model: STALLION

Trade Name:

Aircraft T.C./STC: Experimental

Propeller Model: PHC-C3YF-1RF

Propeller T.C.:

Blade Model(s): F7691

Prop Diameter: 78"

#### Prop Setup:

Ref. Radius: 30

Reverse Angle: NA

Low Pitch Angle: 12.7 +-0.2

Stud Protrusion 1.450 +-0.030

#### Non-HPI Items:

Non-HPI Spinner:

#### Hartzell Approved Items:

IDS No.: 1370

Rev.: -

DM Date: 03/10/2003

Modifier:

Engine Model: IO-550-G1B

Power: 285 HP @ 2500 RPM

Placard/Restr:

Notes:

Startlock Angle: NA

Feather/High Angle: 33.9 +-1.0

Cwt Angle:

Non-HPI Governor:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>           | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|------------------------------|-----------------|----------------|-----------------|
| BLADE            | F7691              | PCP:BLADE UNIT, ALUM [1,1,5] | 3               | Prop           |                 |
| MTG BOLT/STUD    | A-2429-4           | STUD, MOUNTING, 1/2-20       | 6               | Prop           |                 |

# HARTZELL

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### AIRCRAFT PARTS & DEVELOPMENT

**Model:** A-9B  
**Trade Name:**  
**Aircraft T.C./STC:** STC-SA98RM  
**Propeller Model:** HC-C3YR-1RF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** F8468A-6R  
**Prop Diameter:** 80"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.5 +-1.0  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 97      **Rev.:** -      **DM Date:** 10/01/1992

**Modifier:** AIRCRAFT PARTS & DEVELOPMENT  
**Engine Model:** IO-540-B1A5  
**Power:** 290 HP @ 2575 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 38.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

#### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>           | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|------------------------------|-----------------|----------------|-----------------|
| BLADE            | F8468A-6R          | PCP:BLADE UNIT, ALUM [1,1,1] | 3               | Prop           |                 |
| SPINNER          | 835-36             | SPINNER ASSEMBLY             | 1               | Prop           |                 |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20       | 6               | Prop           |                 |

### AIRPLANE SERVICES

**Model:** see AERO COMMANDER (CALLAIR)  
**Trade Name:**  
**Aircraft T.C./STC:**  
**Propeller Model:**  
**Propeller T.C.:**  
**Blade Model(s):**  
**Prop Diameter:**

#### Prop Setup:

**Ref. Radius:**  
**Reverse Angle:**  
**Low Pitch Angle:**  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 100      **Rev.:** -      **DM Date:** 10/01/1992

**Modifier:**  
**Engine Model:**  
**Power:** HP @ RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:**  
**Feather/High Angle:**  
**Cwt Angle:**

**Non-HPI Governor:**

#### Hartzell Approved Items:

# HARTZELL

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**AIRTOURER COOPERATIVE LTD.**

**Model:** AIRTOURER SUPER 150

**Trade Name:**

**Aircraft T.C./STC:** A-7 (NZ)

**Propeller Model:** HC-C2YL-1BF

**Propeller T.C.:** P-920

**Blade Model(s):** F7663A-3.5

**Prop Diameter:** 72.5"

**Prop Setup:**

**Ref. Radius:** 30

**Reverse Angle:** NA

**Low Pitch Angle:** 12.2 +/- 0.2

**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number    | Description                    | Quantity | Qty Per | Comments                 |
|---------------|----------------|--------------------------------|----------|---------|--------------------------|
| PROPELLER     | C2L00055       | HC-C2YL-1BF/F7663A-3.5         | 1        | A/C     |                          |
| BLADE         | F7663A-3.5     | PCP:BLADE UNIT, ALUMINUM       | 2        | Prop    |                          |
| GOVERNOR      | D1-9           | IDS Item                       | 1        | A/C     |                          |
| MTG BOLT/STUD | A-2247-1       | STUD, MOUNTING,7/16-20,DRILLED | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-C2YL-1BF-OH | O/H KIT                        | 1        | Prop    | For aftermarket use only |

**IDS No.:** 1900

**Rev.:** 1

**IC Date:** 07/07/2015

**Modifier:**

**Engine Model:** O-320-E1A

**Power:** 150 HP @ 2700 RPM

**Placard/Restr:**

**Notes:**

**Startlock Angle:** NA

**Feather/High Angle:** 35.0 +-1.0

**Cwt Angle:**

**Non-HPI Governor:**

**AIRTOURER COOPERATIVE LTD.**

**Model:** Airtourer T6

**Trade Name:** Airtourer T6

**Aircraft T.C./STC:** A-8 (NZ)

**Propeller Model:** HC-C2YL-1BF

**Propeller T.C.:** P-920

**Blade Model(s):** F7663-4

**Prop Diameter:** 72" - 70"

**Prop Setup:**

**Ref. Radius:** 30

**Reverse Angle:** NA

**Low Pitch Angle:** 12.2 +/- 0.2

**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number    | Description                    | Quantity | Qty Per | Comments                 |
|---------------|----------------|--------------------------------|----------|---------|--------------------------|
| PROPELLER     | C2L00037       | HC-C2YL-1BF/F7663-4            | 1        | A/C     |                          |
| BLADE         | F7663-4        | PCP:BLADE UNIT, ALUMINUM       | 2        | Prop    |                          |
| GOVERNOR      | D1-9           | IDS Item                       | 1        | A/C     |                          |
| MTG BOLT/STUD | A-2247-1       | STUD, MOUNTING,7/16-20,DRILLED | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-C2YL-1BF-OH | O/H KIT                        | 1        | Prop    | For aftermarket use only |

**IDS No.:** 46

**Rev.:** 1

**IC Date:** 07/07/2015

**Modifier:**

**Engine Model:** O-320-D1A, E1A

**Power:** 150 HP @ 2700 RPM

**Placard/Restr:**

**Notes:** O320-D1A is 160 HP

**Startlock Angle:** NA

**Feather/High Angle:** 35.0 +-1.0

**Cwt Angle:**

**Non-HPI Governor:**

# HARTZELL

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### AMERICAN AGVIATION (GRUMMAN)

**Model:** G-164  
**Trade Name:** AG CAT  
**Aircraft T.C./STC:** STC-SA7987SW  
**Propeller Model:** HC-B3TN-5M  
**Propeller T.C.:** P15EA  
**Blade Model(s):** T10282+4  
 T10282N+4  
**Prop Diameter:** 106.5" TO 101.0"

**IDS No.:** 1735      **Rev.:** 4      **IC Date:** 01/27/2020

**Modifier:** AGRI-JET POWER  
**Engine Model:** TPE331-6-252  
**Power:** 600 HP @ 2000 RPM  
**Placard/Restr:**  
**Notes:**

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** -8.0 +-0.5  
**Low Pitch Angle:**  
**Stud Protrusion**

**Startlock Angle:** 2.0 +-0.2  
**Feather/High Angle:** 81.0 +-0.5  
**Cwt Angle:** Positive

#### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:**

#### Hartzell Approved Items:

| <u>Item Type</u>               | <u>Item Number</u> | <u>Description</u>                | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|--------------------------------|--------------------|-----------------------------------|-----------------|----------------|--------------------------|
| PROPELLER                      | B3N10913           | HC-B3TN-5M/T10282N+4/BULKHEAD     | 1               | A/C            |                          |
| PROPELLER                      | B3N10913S          | HC-B3TN-5M/T10282N+4/C-3043-3P    | 1               | A/C            |                          |
| BLADE                          | T10282+4           | BLADE                             | 3               | Prop           |                          |
| BLADE                          | T10282N+4          | PCP:BLADE UNIT, ALUM [1,1,1]      | 3               | Prop           |                          |
| SPINNER                        | C-3043-3           | SPINNER ASSEMBLY                  | 1               | Prop           |                          |
| SPINNER                        | C-3043-3P          | SPINNER ASSEMBLY                  | 1               | Prop           |                          |
| COUNTERWEIGHT SLUG A-3039      |                    | SLUG, COUNTERWEIGHT               | 1               | Blade          |                          |
| COUNTERWEIGHT SLUG A-890-6     |                    | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          | Primary                  |
| COUNTERWEIGHT SLUG A-890-8     |                    | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          | Alternate                |
| COUNTERWEIGHT SLUG A-890-9     |                    | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          | Alternate                |
| COUNTERWEIGHT SLUG B-3384-21H  |                    | BOLT, 1/4-28, HEX HEAD            | 2               | Blade          |                          |
| COUNTERWEIGHT SLUG B-3851-0432 |                    | WASHER                            | 2               | Blade          | Optional                 |
| COUNTERWEIGHT SLUG B-3851-0463 |                    | WASHER                            | 2               | Blade          | Optional                 |
| MTG BOLT/STUD                  | B-3339             | BOLT, MOUNTING, 9/16-18, 12 POINT | 8               | Prop           |                          |
| OVERHAUL KIT                   | HC-B3TN-5M-OH      | O/H KIT                           | 1               | Prop           | For aftermarket use only |

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### AMERICAN AVIATION (GRUMMAN)

IDS No.: 1727      Rev.: 3      IC      Date: 07/15/2015

**Model:** G-164B  
**Trade Name:** AG CAT  
**Aircraft T.C./STC:** 1A16  
**Propeller Model:** HC-B3TN-3D  
**Propeller T.C.:** P15EA  
**Blade Model(s):** T10282+4  
    T10282N+4  
**Prop Diameter:** 106.5" TO 100.5"

**Modifier:**  
**Engine Model:** PT6A-20B, -34AG  
**Power:** 600 HP @ 2200 RPM  
**Placard/Restr:**  
**Notes:**

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** -8.0 +-0.5  
**Low Pitch Angle:** 18.0 +-0.1  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 90.0 +-0.5  
**Cwt Angle:** Positive

#### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:**

#### Hartzell Approved Items:

| <u>Item Type</u>               | <u>Item Number</u> | <u>Description</u>                | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|--------------------------------|--------------------|-----------------------------------|-----------------|----------------|--------------------------|
| PROPELLER                      | B3N10458           | HC-B3TN-3D/T10282N+4              | 1               | A/C            |                          |
| PROPELLER                      | B3N10458S          | HC-B3TN-3D/T10282N+4/D3434-12P    | 1               | A/C            |                          |
| BLADE                          | T10282+4           | BLADE                             | 3               | Prop           |                          |
| BLADE                          | T10282N+4          | PCP:BLADE UNIT, ALUM [1,1,1]      | 3               | Prop           |                          |
| SPINNER                        | D-3434-12          | SPINNER ASSEMBLY                  | 1               | Prop           |                          |
| SPINNER                        | D-3434-12P         | SPINNER ASSEMBLY                  | 1               | Prop           |                          |
| SPIN MTG KIT                   | B-3384-4H          | BOLT, 1/4-28, HEX HEAD            | 12              | Prop           |                          |
| SPIN MTG KIT                   | B-3808-4           | NUT,HEX,SELF-LOCKING              | 12              | Prop           |                          |
| SPIN MTG KIT                   | B-3851-0432        | WASHER                            | 24              | Prop           |                          |
| COUNTERWEIGHT SLUG A-3039      |                    | SLUG, COUNTERWEIGHT               | 1               | Blade          |                          |
| COUNTERWEIGHT SLUG A-890-6     |                    | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          | Primary                  |
| COUNTERWEIGHT SLUG A-890-8     |                    | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          | Alternate                |
| COUNTERWEIGHT SLUG A-890-9     |                    | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          | Alternate                |
| COUNTERWEIGHT SLUG B-3384-21H  |                    | BOLT, 1/4-28, HEX HEAD            | 2               | Blade          |                          |
| COUNTERWEIGHT SLUG B-3851-0432 |                    | WASHER                            | 2               | Blade          | Optional                 |
| COUNTERWEIGHT SLUG B-3851-0463 |                    | WASHER                            | 2               | Blade          | Optional                 |
| MTG BOLT/STUD                  | B-3339             | BOLT, MOUNTING, 9/16-18, 12 POINT | 8               | Prop           |                          |
| OVERHAUL KIT                   | HC-B3TN-3D-OH      | O/H KIT                           | 1               | Prop           | For aftermarket use only |

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### AMERICAN AGVIATION (GRUMMAN)

IDS No.: 928 Rev.: 2 D Date: 06/04/2013

**Model:** G-164B-34T, -15T; G-164D

**Trade Name:** AG CAT

**Aircraft T.C./STC:** 1A16

**Propeller Model:** HC-B3TN-3D

**Propeller T.C.:** P15EA

**Blade Model(s):** T10282+4  
T10282N+4

**Prop Diameter:** 106.5" TO 100"

#### Prop Setup:

**Ref. Radius:** 30

**Reverse Angle:** -8.0 +/-0.5

**Low Pitch Angle:** 18.0 +/-0.1

**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

**Modifier:**

**Engine Model:** PT6A-34AG; PT6A-15AG (680hp)

**Power:** 750 HP @ 2200 RPM

**Placard/Restr:**

**Notes:**

**Startlock Angle:** NA

**Feather/High Angle:** 90.0 +/-0.5

**Cwt Angle:** Positive

**Non-HPI Governor:**

#### Hartzell Approved Items:

| <u>Item Type</u>               | <u>Item Number</u> | <u>Description</u>                | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|--------------------------------|--------------------|-----------------------------------|-----------------|----------------|-----------------|
| BLADE                          | T10282+4           | BLADE                             | 3               | Prop           |                 |
| BLADE                          | T10282N+4          | PCP:BLADE UNIT, ALUM [1,1,1]      | 3               | Prop           |                 |
| SPINNER                        | D-3434-6           | SPINNER ASSEMBLY                  | 1               | Prop           |                 |
| SPINNER                        | D-3434-6P          | SPINNER ASSEMBLY                  | 1               | Prop           |                 |
| SPIN MTG KIT                   | B-3384-4H          | BOLT, 1/4-28, HEX HEAD            | 12              | Prop           |                 |
| SPIN MTG KIT                   | B-3808-4           | NUT,HEX,SELF-LOCKING              | 12              | Prop           |                 |
| SPIN MTG KIT                   | B-3851-0432        | WASHER                            | 24              | Prop           |                 |
| COUNTERWEIGHT SLUG A-3039      |                    | SLUG, COUNTERWEIGHT               | 1               | Blade          |                 |
| COUNTERWEIGHT SLUG A-890-6     |                    | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          | Primary         |
| COUNTERWEIGHT SLUG A-890-8     |                    | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          | Alternate       |
| COUNTERWEIGHT SLUG A-890-9     |                    | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          | Alternate       |
| COUNTERWEIGHT SLUG B-3384-21H  |                    | BOLT, 1/4-28, HEX HEAD            | 2               | Blade          |                 |
| COUNTERWEIGHT SLUG B-3851-0432 |                    | WASHER                            | 2               | Blade          | Optional        |
| COUNTERWEIGHT SLUG B-3851-0463 |                    | WASHER                            | 2               | Blade          | Optional        |
| MTG BOLT/STUD                  | B-3339             | BOLT, MOUNTING, 9/16-18, 12 POINT | 8               | Prop           |                 |

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American Champion

**Model:** 8GCBC  
**Trade Name:** Scout  
**Aircraft T.C./STC:** SA09855AC  
**Propeller Model:** HC-C2YR-1N  
**Propeller T.C.:** P-920  
**Blade Model(s):** NG8301-3  
**Prop Diameter:** 80"

### Prop Setup:

**Ref. Radius:** 30"  
**Reverse Angle:**  
**Low Pitch Angle:** 9.4 +/- .2 degrees  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 3374      **Rev.:** 3      **IC Date:** 10/16/2017

**Modifier:** Hartzell Propeller  
**Engine Model:** O-360-C2A, -C2E, -C1A, -C1E, -C1G  
**Power:** 180 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:**  
**Feather/High Angle:** 30.0 +/- 1.0  
**Cwt Angle:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>        | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>    |
|------------------|--------------------|---------------------------|-----------------|----------------|--------------------|
| PROPELLER        | C2R40875           | HC-C2YR-1N/NG8301-3/SM8   | 1               | A/C            |                    |
| BLADE            | NG8301-3           | PCP:BLADE ASSY, COMPOSITE | 2               | Prop           |                    |
| SPINNER          | D-4798             | SPINNER ASSEMBLY          | 1               | Prop           |                    |
| SPINNER          | D-4798P            | SPINNER ASSEMBLY          | 1               | Prop           |                    |
| SPIN MTG KIT     | A-2476-8           | SPINNER - MTG KIT         | 1               | Prop           | Use with D-4798(P) |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20    | 6               | Prop           |                    |

American Champion

**Model:** 8GCBC  
**Trade Name:** Denali Scout  
**Aircraft T.C./STC:** SA09855AC  
**Propeller Model:** BHC-C2YR-1N  
**Propeller T.C.:** P-920  
**Blade Model(s):** NG8301-3  
**Prop Diameter:** 80"

### Prop Setup:

**Ref. Radius:** 30"  
**Reverse Angle:**  
**Low Pitch Angle:** 10.5 +/- .2 degrees  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 3375      **Rev.:** 3      **IC Date:** 10/16/2017

**Modifier:** Hartzell Propeller  
**Engine Model:** IO-390-A1B6  
**Power:** 210 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:**  
**Feather/High Angle:** 30.0 +/- 1.0  
**Cwt Angle:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>        | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>    |
|------------------|--------------------|---------------------------|-----------------|----------------|--------------------|
| PROPELLER        | C2R40900           | BHC-C2YR-1N/NG8301-3/SM8  | 1               | A/C            |                    |
| BLADE            | NG8301-3           | PCP:BLADE ASSY, COMPOSITE | 2               | Prop           |                    |
| SPINNER          | D-4798             | SPINNER ASSEMBLY          | 1               | Prop           |                    |
| SPINNER          | D-4798P            | SPINNER ASSEMBLY          | 1               | Prop           |                    |
| SPIN MTG KIT     | A-2476-8           | SPINNER - MTG KIT         | 1               | Prop           | Use with D-4798(P) |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20    | 6               | Prop           |                    |

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### AMERICAN CHAMPION

**Model:** 8KCAB  
**Trade Name:** SUPER DECATHLON  
**Aircraft T.C./STC:** SA09892AC  
**Propeller Model:** HC-C2YR-4N  
**Propeller T.C.:** P-920  
**Blade Model(s):** NC8302-7  
**Prop Diameter:** 76"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** 9.6 +/-0.2  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 3612      **Rev.:** 2      **IC Date:** 07/22/2019

**Modifier:** Hartzell Propeller Inc  
**Engine Model:** AEIO-360-H1A, -H1B  
**Power:** 180 HP @ 2700 RPM  
**Placard/Restr:** None.

**Notes:**

**Startlock Angle:**  
**Feather/High Angle:** 30.0 +/-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

#### Hartzell Approved Items:

| Item Type     | Item Number | Description                    | Quantity | Qty Per | Comments           |
|---------------|-------------|--------------------------------|----------|---------|--------------------|
| PROPELLER     | C2R80801    | HC-C2YR-4N/NC8302-7/SM8        | 1        | A/C     |                    |
| BLADE         | NC8302-7    | PCP: BLADE ASSEMBLY, COMPOSITE | 2        | Prop    |                    |
| SPINNER       | 836-52      | SPINNER ASSEMBLY               | 1        | Prop    |                    |
| SPINNER       | 836-52P     | SPINNER ASSEMBLY               | 1        | Prop    |                    |
| SPIN MTG KIT  | A-2476-8    | SPINNER - MTG KIT              | 1        | Prop    | Use with 836-52( ) |
| COUNTERWEIGHT | 102437-1    | PCP:COUNTERWEIGHT              | 1        | Blade   |                    |
| MTG BOLT/STUD | A-2067      | STUD, MOUNTING, 1/2-20         | 6        | Prop    |                    |

### AMERICAN CHAMPION

**Model:** 11AC,11BC,S11AC,S11BC  
**Trade Name:** CHIEF (AERONCA)  
**Aircraft T.C./STC:** A-761  
**Propeller Model:** HA-12U  
**Propeller T.C.:**  
**Blade Model(s):** 7214-4  
                           7214-4M  
                           7214M  
                           7414  
**Prop Diameter:** 74" TO 68"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 2280-2380 RPM (C-85)  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 292      **Rev.:** -      **DM Date:** 10/01/1992

**Modifier:**  
**Engine Model:** A-65-8, C-85-8F  
**Power:** 85 HP @ 2575 RPM  
**Placard/Restr:**

**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** NA  
**Cwt Angle:**

**Non-HPI Governor:**

#### Hartzell Approved Items:

| Item Type | Item Number | Description | Quantity | Qty Per | Comments |
|-----------|-------------|-------------|----------|---------|----------|
| BLADE     | 7214-4      | IDS Item    | 2        | Prop    |          |
| BLADE     | 7214-4M     | IDS Item    | 2        | Prop    |          |
| BLADE     | 7214M       | IDS Item    | 2        | Prop    |          |
| BLADE     | 7414        | IDS Item    | 2        | Prop    |          |



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### AMERICAN CHAMPION

**Model:** 7GCA, 7GCB, 7GCC  
**Trade Name:** (AERONCA)  
**Aircraft T.C./STC:** STC-SA283AL  
**Propeller Model:** HC-82XL-1, HC-A2XL-1  
**Propeller T.C.:** P24EA  
**Blade Model(s):** 7636-4  
**Prop Diameter:** 72.2"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:**  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

#### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u> | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|--------------------|-----------------|----------------|-----------------|
| BLADE            | 7636-4             | BLADE              | 2               | Prop           |                 |

**IDS No.:** 2112      **Rev.:** -      **DM Date:** 11/20/2003

**Modifier:** BACHNER'S AIRCRAFT  
**Engine Model:** O-320 SERIES  
**Power:** 150 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:**  
**Feather/High Angle:**  
**Cwt Angle:** Positive

**Non-HPI Governor:**

### AMERICAN CHAMPION

**Model:** 7GCA, 7GCB, 7GCC  
**Trade Name:** (AERONCA)  
**Aircraft T.C./STC:** STC-SA283AL  
**Propeller Model:** HC-82VL-1, HC-A2VL-1  
**Propeller T.C.:** P24EA  
**Blade Model(s):** V7636N-4  
**Prop Diameter:** 72.2"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:**  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

#### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u> | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|--------------------|-----------------|----------------|-----------------|
| BLADE            | V7636N-4           | BLADE              | 2               | Prop           |                 |

**IDS No.:** 2113      **Rev.:** -      **DM Date:** 11/20/2003

**Modifier:** BACHNER'S AIRCRAFT  
**Engine Model:** O-320 SERIES  
**Power:** 150 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:**  
**Feather/High Angle:**  
**Cwt Angle:** Positive

**Non-HPI Governor:**

# HARTZELL

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### AMERICAN CHAMPION

**Model:** 7GCA, 7GCB, 7GCC  
**Trade Name:** (AERONCA)  
**Aircraft T.C./STC:** STC-SA283AL  
**Propeller Model:** HC-A2MVL-1  
**Propeller T.C.:** P24EA  
**Blade Model(s):** MV7636N-4  
**Prop Diameter:** 72.2"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** UNKNOWN  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

#### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>       | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|--------------------------|-----------------|----------------|-----------------|
| BLADE            | MV7636N-4          | PCP:BLADE UNIT, ALUMINUM | 2               | Prop           |                 |
| MTG BOLT/STUD    | B-322              | BOLT,7/16-20,HEX HEAD    | 6               | Prop           |                 |

**IDS No.:** 283      **Rev.:** 1      **D**      **Date:** 01/07/2011

**Modifier:** BACHNER'S AIRCRAFT  
**Engine Model:** O-320 SERIES  
**Power:** 150 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:**  
**Feather/High Angle:** UNKNOWN  
**Cwt Angle:** Positive

**Non-HPI Governor:**

### AMERICAN CHAMPION

**Model:** 7GCA, 7GCB, 7GCC  
**Trade Name:** (AERONCA)  
**Aircraft T.C./STC:** STC-SA283AL  
**Propeller Model:** HC-C2YL-1B  
**Propeller T.C.:** P-920  
**Blade Model(s):** F7663-4  
**Prop Diameter:** 72"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:**  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

#### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>             | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|--------------------------------|-----------------|----------------|-----------------|
| BLADE            | F7663-4            | PCP:BLADE UNIT, ALUMINUM       | 2               | Prop           |                 |
| MTG BOLT/STUD    | A-2247-1           | STUD, MOUNTING,7/16-20,DRILLED | 6               | Prop           |                 |

**IDS No.:** 284      **Rev.:** -      **DM**      **Date:** 10/01/1992

**Modifier:** BACHNER'S AIRCRAFT  
**Engine Model:**  
**Power:** HP @ RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:**  
**Cwt Angle:**

**Non-HPI Governor:**

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### AMERICAN CHAMPION

**Model:** 7GCBC  
**Trade Name:** (AERONCA)  
**Aircraft T.C./STC:** STC-SA513AL  
**Propeller Model:** HC-C2YL-1BF  
**Propeller T.C.:**  
**Blade Model(s):** F8468A-8R  
**Prop Diameter:** 76"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 10.0 +/-0.2  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

#### Hartzell Approved Items:

| Item Type     | Item Number | Description                      | Quantity | Qty Per | Comments |
|---------------|-------------|----------------------------------|----------|---------|----------|
| BLADE         | F8468A-8R   | PCP:BLADE UNIT, ALUM [1,1,1]     | 2        | Prop    |          |
| MTG BOLT/STUD | A-2247-1    | STUD, MOUNTING, 7/16-20, DRILLED | 6        | Prop    |          |

**IDS No.:** 285      **Rev.:** -      **DM Date:** 04/15/1993

**Modifier:** NORTHLAND AVIATION  
**Engine Model:** O-320-A3B  
**Power:** 150 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 28.5 +/-0.5  
**Cwt Angle:**

**Non-HPI Governor:**

### AMERICAN CHAMPION

**Model:** 8GCBC  
**Trade Name:** SCOUT  
**Aircraft T.C./STC:** A21CE  
**Propeller Model:** HC-C2YR-1BF  
**Propeller T.C.:** P-920  
  
**Blade Model(s):** F7666A  
**Prop Diameter:** 76" TO 72"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.0 +/-0.2  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

#### Hartzell Approved Items:

| Item Type     | Item Number    | Description                  | Quantity | Qty Per | Comments                 |
|---------------|----------------|------------------------------|----------|---------|--------------------------|
| PROPELLER     | C2R00681       | HC-C2YR-1BF/F7666A/SM4       | 1        | A/C     |                          |
| BLADE         | F7666A         | PCP:BLADE UNIT, ALUM [1,1,1] | 2        | Prop    |                          |
| SPINNER       | 836-52         | SPINNER ASSEMBLY             | 1        | Prop    |                          |
| SPINNER       | 836-52P        | SPINNER ASSEMBLY             | 1        | Prop    |                          |
| SPIN MTG KIT  | A-2476-4       | SPINNER - MTG KIT            | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2067         | STUD, MOUNTING, 1/2-20       | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-C2YR-1BF-OH | O/H KIT                      | 1        | Prop    | For aftermarket use only |

**IDS No.:** 288      **Rev.:** 1      **IC Date:** 07/07/2015

**Modifier:**  
**Engine Model:** O-360-C1A,-C1E,-C1G  
**Power:** 180 HP @ 2700 RPM  
**Placard/Restr:** Avoid continuous operation between 2000 and 2350 RPM.

**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 29.0 +/-0.5  
**Cwt Angle:**

**Non-HPI Governor:** WOODWARD

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### AMERICAN CHAMPION

**Model:** 8GCBC  
**Trade Name:** SCOUT  
**Aircraft T.C./STC:** STC-SA530AL  
**Propeller Model:** HC-C2YR-1BF  
**Propeller T.C.:** P-920

**Blade Model(s):** F7666A  
**Prop Diameter:** 76" TO 72"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.0 +-0.1  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

#### Hartzell Approved Items:

| Item Type     | Item Number | Description                  | Quantity | Qty Per | Comments |
|---------------|-------------|------------------------------|----------|---------|----------|
| BLADE         | F7666A      | PCP:BLADE UNIT, ALUM [1,1,1] | 2        | Prop    |          |
| SPINNER       | 836-52      | SPINNER ASSEMBLY             | 1        | Prop    |          |
| MTG BOLT/STUD | A-2067      | STUD, MOUNTING, 1/2-20       | 6        | Prop    |          |

**IDS No.:** 289      **Rev.:** -      **DM Date:** 06/06/2006

**Modifier:** NORTHLAND AVIATION  
**Engine Model:** O-360-C1A, -C1E, -C1G  
**Power:** 180 HP @ 2700 RPM  
**Placard/Restr:** Avoid continuous operation between 2000 and 2250 RPM

#### Notes:

**Startlock Angle:** NA  
**Feather/High Angle:** 29.0 +-0.5  
**Cwt Angle:**

**Non-HPI Governor:** WOODWARD

### AMERICAN CHAMPION

**Model:** 8GCBC  
**Trade Name:** SCOUT  
**Aircraft T.C./STC:** STC-SA742NW  
**Propeller Model:** HC-C2YR-1BF  
**Propeller T.C.:** P-920

**Blade Model(s):** F7666A  
**Prop Diameter:** 76"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 11.5 +-0.1  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

#### Hartzell Approved Items:

| Item Type     | Item Number    | Description                  | Quantity | Qty Per | Comments                 |
|---------------|----------------|------------------------------|----------|---------|--------------------------|
| PROPELLER     | C2R00020       | HC-C2YR-1BF/F7666A/SM4       | 1        | A/C     |                          |
| BLADE         | F7666A         | PCP:BLADE UNIT, ALUM [1,1,1] | 2        | Prop    |                          |
| SPINNER       | 836-52         | SPINNER ASSEMBLY             | 1        | Prop    |                          |
| SPIN MTG KIT  | A-2476-4       | SPINNER - MTG KIT            | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2067         | STUD, MOUNTING, 1/2-20       | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-C2YR-1BF-OH | O/H KIT                      | 1        | Prop    | For aftermarket use only |

**IDS No.:** 1210      **Rev.:** 1      **IC Date:** 07/07/2015

**Modifier:** KENMORE AIR HARBOR  
**Engine Model:** O-360-C1A  
**Power:** 180 HP @ 2700 RPM  
**Placard/Restr:** Avoid continuous operation between 2000 and 2250 RPM.

#### Notes:

**Startlock Angle:** NA  
**Feather/High Angle:** 29.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

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### AMERICAN CHAMPION

**Model:** 8GCBC  
**Trade Name:** SCOUT  
**Aircraft T.C./STC:** A21CE  
**Propeller Model:** HC-C3YR-1RF  
**Propeller T.C.:** P25EA

**Blade Model(s):** F7282  
**Prop Diameter:** 74" to 73"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 9.2 +-0.1  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

#### Hartzell Approved Items:

| Item Type     | Item Number    | Description              | Quantity | Qty Per | Comments                 |
|---------------|----------------|--------------------------|----------|---------|--------------------------|
| PROPELLER     | C3R00019       | HC-C3YR-1RF/F7282/SM7    | 1        | A/C     |                          |
| BLADE         | F7282          | PCP:BLADE UNIT, ALUMINUM | 3        | Prop    |                          |
| SPINNER       | A-2295-1P      | SPINNER ASSEMBLY         | 1        | Prop    |                          |
| GOVERNOR      | S-1-2          | GOVERNOR ASSEMBLY, S-1-2 | 1        | A/C     |                          |
| SPIN MTG KIT  | A-2476-7       | SPINNER - MTG KIT        | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2067         | STUD, MOUNTING, 1/2-20   | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-C3YR-1RF-OH | O/H KIT                  | 1        | Prop    | For aftermarket use only |

**IDS No.:** 1369      **Rev.:** 1      **IC Date:** 07/16/2015

**Modifier:**

**Engine Model:** O-360-C1A, C1E, C1G

**Power:** 180 HP @ 2700 RPM

**Placard/Restr:** Avoid continuous operation below 15 inches manifold pressure between 1950 and 2350 RPM

**Notes:** S-1-2 Governor is for O-360-C1G engine

**Startlock Angle:** NA

**Feather/High Angle:** 30.5 +-0.5

**Cwt Angle:**

**Non-HPI Governor:**

### AMERICAN CHAMPION

**Model:** 8KCAB  
**Trade Name:** DECATHLON  
**Aircraft T.C./STC:** A21CE  
**Propeller Model:** HC-C2YL-4F  
**Propeller T.C.:**  
**Blade Model(s):** FC7663-4\*1  
**Prop Diameter:** 72" TO 70"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 11.0 +-0.1  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

#### Hartzell Approved Items:

| Item Type     | Item Number | Description                      | Quantity | Qty Per | Comments        |
|---------------|-------------|----------------------------------|----------|---------|-----------------|
| BLADE         | FC7663-4*1  | PCP:BLADE UNIT, B-3202H-8 CWT    | 2        | Prop    |                 |
| SPINNER       | 836-52      | SPINNER ASSEMBLY                 | 1        | Prop    |                 |
| GOVERNOR      | F6-3        | IDS Item                         | 1        | A/C     |                 |
| GOVERNOR      | F6-3A       | GOVERNOR ASSEMBLY, F-6-( )       | 1        | A/C     |                 |
| COUNTERWEIGHT | B-3202H-8   | PCP:COUNTERWEIGHT                | 1        | Blade   | Blade Component |
| MTG BOLT/STUD | A-2247-1    | STUD, MOUNTING, 7/16-20, DRILLED | 6        | Prop    |                 |

**IDS No.:** 290      **Rev.:** -      **DM Date:** 04/15/1993

**Modifier:**

**Engine Model:** AEIO-320-E1B; IO-320-E1A, -E1B

**Power:** 150 HP @ 2700 RPM

**Placard/Restr:**

**Notes:**

**Startlock Angle:** NA

**Feather/High Angle:** 20.5 +-0.5

**Cwt Angle:**

**Non-HPI Governor:**

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AMERICAN CHAMPION

IDS No.: 1221 Rev.: 2 IC Date: 07/07/2015

**Model:** 8KCAB  
**Trade Name:** DECATHLON  
**Aircraft T.C./STC:** A21CE  
**Propeller Model:** HC-C2YL-4, -4F, -4BF  
**Propeller T.C.:** P-920  
**Blade Model(s):** FC7663-4  
**Prop Diameter:** 72.0" TO 70.0"

**Modifier:**  
**Engine Model:** IO-320-E1A, -E1B, AEIO-320-E1B  
**Power:** 150 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 11.0 +-0.2  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 20.0 +-0.5  
**Cwt Angle:**

### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:** WOODWARD

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>             | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>   |
|------------------|--------------------|--------------------------------|-----------------|----------------|---|
| PROPELLER        | C2L00100           | HC-C2YL-4BF/FC7663-4/SM8       | 1               | A/C            | Propeller assembly including spinner mounting kit and mounting studs        |
| BLADE            | FC7663-4           | PCP:BLADE UNIT, B-3202H-7 CWT  | 2               | Prop           | Blade included with propeller assembly                                      |
| SPINNER          | 836-52             | SPINNER ASSEMBLY               | 1               | Prop           | Spinner with surface finish suitable for painting. Spinner sold separately. |
| SPINNER          | 836-52P            | SPINNER ASSEMBLY               | 1               | Prop           | Polished spinner. Spinner sold separately.                                  |
| GOVERNOR         | F6-31              | GOVERNOR ASSEMBLY, F-6-( )     | 1               | A/C            | Governor sold separately  |
| GOVERNOR         | F6-3A              | GOVERNOR ASSEMBLY, F-6-( )     | 1               | A/C            | Governor sold separately  |
| SPIN MTG KIT     | A-2476-8           | SPINNER - MTG KIT              | 1               | Prop           | Spinner mounting kit included with propeller                                |
| COUNTERWEIGHT    | B-3202H-7          | PCP:COUNTERWEIGHT              | 1               | Blade          | Blade Component   |
| MTG BOLT/STUD    | A-2247-1           | STUD, MOUNTING,7/16-20,DRILLED | 6               | Prop           | Mounting studs included with propeller                                      |
| OVERHAUL KIT     | HC-C2YL-4BF-OH     | O/H KIT                        | 1               | Prop           | For aftermarket use only  |

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### AMERICAN CHAMPION

**Model:** 8KCAB  
**Trade Name:** DECATHLON  
**Aircraft T.C./STC:** A21CE  
**Propeller Model:** HC-C2YR-4BF, -4CF  
**Propeller T.C.:** P-920  
**Blade Model(s):** FC7666A-2\*1  
 FC7666A-2\*3  
**Prop Diameter:** 74.0" TO 72.0"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 11.0 +-0.1  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 291      **Rev.:** 1      **IC Date:** 07/07/2015

**Modifier:**  
**Engine Model:** AEIO-360-H1A  
**Power:** 180 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 28.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:** WOODWARD

#### Hartzell Approved Items:

| Item Type     | Item Number    | Description                   | Quantity | Qty Per | Comments                 |
|---------------|----------------|-------------------------------|----------|---------|--------------------------|
| PROPELLER     | C2R00227       | HC-C2YR-4CF/FC7666A-2[*3]/SM8 | 1        | A/C     |                          |
| PROPELLER     | C2R00230       | HC-C2YR-4CF/FC7666A-2[*1]/SM8 | 1        | A/C     |                          |
| BLADE         | FC7666A-2*1    | PCP:BLADE UNIT, B-3202H-8 CWT | 2        | Prop    |                          |
| BLADE         | FC7666A-2*3    | PCP:BLADE UNIT, B-3202H-8 CWT | 2        | Prop    |                          |
| SPINNER       | 836-52         | SPINNER ASSEMBLY              | 1        | Prop    |                          |
| SPINNER       | 836-52P        | SPINNER ASSEMBLY              | 1        | Prop    |                          |
| SPIN MTG KIT  | A-2476-8       | SPINNER - MTG KIT             | 1        | Prop    |                          |
| COUNTERWEIGHT | B-3202H-8      | PCP:COUNTERWEIGHT             | 1        | Blade   | Blade Component          |
| MTG BOLT/STUD | A-2067         | STUD, MOUNTING, 1/2-20        | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-C2YR-4CF-OH | O/H KIT                       | 1        | Prop    | For aftermarket use only |

### AMF PAKISTAN AERONAUTICAL COMP

**Model:** MFI-17  
**Trade Name:** MUSHSHAK  
**Aircraft T.C./STC:** Unknown  
**Propeller Model:** HC-C2YK-4BF  
**Propeller T.C.:** P-920  
**Blade Model(s):** FC7666A-2  
**Prop Diameter:** 74"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.5 +-0.1  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 1664      **Rev.:** -      **DM Date:** 06/27/1999

**Modifier:**  
**Engine Model:** IO-360-A1B6  
**Power:** 200 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 28.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

#### Hartzell Approved Items:

| Item Type     | Item Number | Description                   | Quantity | Qty Per | Comments        |
|---------------|-------------|-------------------------------|----------|---------|-----------------|
| BLADE         | FC7666A-2   | PCP:BLADE UNIT, B-3202H-6 CWT | 2        | Prop    |                 |
| COUNTERWEIGHT | B-3202H-6   | PCP:COUNTERWEIGHT             | 1        | Blade   | Blade Component |
| MTG BOLT/STUD | A-2067      | STUD, MOUNTING, 1/2-20        | 6        | Prop    |                 |

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### AMF PAKISTAN AERONAUTICAL COMP

**Model:** MFI-17  
**Trade Name:** SHAHBAZ  
**Aircraft T.C./STC:** Unknown  
**Propeller Model:** HC-C2YF-1BF  
**Propeller T.C.:** P-920  
**Blade Model(s):** F8459-9R  
**Prop Diameter:** 75"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 14.7 +-0.2  
**Stud Protrusion** 1.120 +-0.030

#### Non-HPI Items:

**Non-HPI Spinner:**

#### Hartzell Approved Items:

| Item Type     | Item Number | Description            | Quantity | Qty Per | Comments |
|---------------|-------------|------------------------|----------|---------|----------|
| BLADE         | F8459-9R    | IDS Item               | 2        | Prop    |          |
| SPINNER       | 835-44      | SPINNER ASSEMBLY       | 1        | Prop    |          |
| MTG BOLT/STUD | A-2429-3    | STUD, MOUNTING, 1/2-20 | 6        | Prop    |          |

**IDS No.:** 924      **Rev.:** -      **DM Date:** 03/25/2003

**Modifier:**  
**Engine Model:** TSIO-360-MB  
**Power:** 210 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 31.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

### AMF PAKISTAN AERONAUTICAL COMP

**Model:** MFI-17  
**Trade Name:** SUPER MUSHSHAK  
**Aircraft T.C./STC:** Unknown  
**Propeller Model:** HC-C2YK-1BF  
**Propeller T.C.:** P-920  
**Blade Model(s):** F8477-8R  
**Prop Diameter:** 76.0" NO CUT OFF

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 15.5 +-0.1  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

#### Hartzell Approved Items:

| Item Type     | Item Number    | Description                  | Quantity | Qty Per | Comments                 |
|---------------|----------------|------------------------------|----------|---------|--------------------------|
| PROPELLER     | C2K00180       | HC-C2YK-1BF/F8477-8R         | 1        | A/C     |                          |
| PROPELLER     | C2K00182       | HC-C2YK-1BF/F8477-8R/SM2     | 1        | A/C     |                          |
| BLADE         | F8477-8R       | PCP:BLADE UNIT, ALUM [1,1,1] | 2        | Prop    |                          |
| SPINNER       | 835-41         | SPINNER ASSEMBLY             | 1        | Prop    | USED W/C2K00180          |
| SPINNER       | A-4203         | SPINNER ASSEMBLY             | 1        | Prop    | USED W/C2K00182          |
| SPINNER       | A-4203-P       | SPINNER ASSEMBLY             | 1        | Prop    | USED W/C2K00182          |
| GOVERNOR      | V5-8           | GOVERNOR ASSEMBLY, V-5-( )   | 1        | A/C     |                          |
| SPIN MTG KIT  | A-2476-2       | SPINNER - MTG KIT            | 1        | Prop    | USED W/C2K00182          |
| MTG BOLT/STUD | A-2067         | STUD, MOUNTING, 1/2-20       | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-C2YK-1BF-OH | O/H KIT                      | 1        | Prop    | For aftermarket use only |

**IDS No.:** 1433      **Rev.:** 1      **IC Date:** 07/07/2015

**Modifier:**  
**Engine Model:** IO-540-V4A5  
**Power:** 260 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 32.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**



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### ANDERSON GREENWOOD

**Model:** 14  
**Trade Name:**  
**Aircraft T.C./STC:** 4A1  
**Propeller Model:** HA-12UF-1  
**Propeller T.C.:**  
**Blade Model(s):** L7214  
**Prop Diameter:** 72" TO 70.5"

#### Prop Setup:

**Ref. Radius:** 24  
**Reverse Angle:** NA  
**Low Pitch Angle:** 19.38 +-0.62  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 101      **Rev.:** -      **DM Date:** 10/01/1992

**Modifier:**  
**Engine Model:** C-90-12FP  
**Power:** 90 HP @ 2475 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** NA  
**Cwt Angle:**

**Non-HPI Governor:** NA

#### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>        | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|---------------------------|-----------------|----------------|-----------------|
| BLADE            | L7214              | IDS ITEM, BLADE, HARTZITE | 2               | Prop           |                 |

### ANDERSON GREENWOOD

**Model:** 51, 51A (BELLANCA)  
**Trade Name:**  
**Aircraft T.C./STC:** A11SW  
**Propeller Model:** HC-E2YR-1BF, 1S  
**Propeller T.C.:** P9EA  
**Blade Model(s):** F8465-7R  
**Prop Diameter:** 77" TO 76"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 15.1 +-0.2  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 102      **Rev.:** -      **DM Date:** 04/15/1993

**Modifier:**  
**Engine Model:** IO-540-C4B5, -A4D5  
**Power:** 250 HP @ 2575 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 28.8 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

#### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>         | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>   |
|------------------|--------------------|----------------------------|-----------------|----------------|-------------------|
| BLADE            | F8465-7R           | PCP:BLADE UNIT, ALUMINUM   | 2               | Prop           |                   |
| SPINNER          | C-4565             | SPINNER ASSEMBLY           | 1               | Prop           | Replaces C-3245-1 |
| GOVERNOR         | F4-25              | IDS Item                   | 1               | A/C            |                   |
| GOVERNOR         | F4-25Z             | GOVERNOR ASSEMBLY, F-4-( ) | 1               | A/C            |                   |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20     | 6               | Prop           |                   |

# HARTZELL

## APPLICATION GUIDE

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ANTONOV

IDS No.: 3225 Rev.: 1 IC Date: 03/24/2021

**Model:** AN-2 SM

**Modifier:** Siberia Aeronautical Research Insti

**Trade Name:**

**Engine Model:** TPE331-12UHR

**Aircraft T.C./STC:** Experimental

**Power:** 1100 HP @ 1591 RPM

**Propeller Model:** HC-B5MP-5CL

**Placard/Restr:** Ground idle engine speed must be at or above 65% (1034) RPM.

**Propeller T.C.:** P44GL

**Notes:**

**Blade Model(s):** LM11692N

LM11692NK\*1

**Prop Diameter:** 118.7" to 118.2"

**Prop Setup:**

**Ref. Radius:** 42"

**Startlock Angle:** -1.8+/-0.1

**Reverse Angle:** -11.5+/-0.5

**Feather/High Angle:** 82.5 +/-0.5

**Low Pitch Angle:** N/A

**Cwt Angle:** Positive

**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type          | Item Number | Description                    | Quantity | Qty Per | Comments |
|--------------------|-------------|--------------------------------|----------|---------|----------|
| PROPELLER          | B5P10651SKD | HC-B5MP-5CL/LM11692N/104236P   | 1        | A/C     |          |
| PROPELLER          | B5P10652SKD | HC-B5MP-5CL/LM11692NK[*1]      | 1        | A/C     |          |
| BLADE              | LM11692N    | PCP:BLADE UNIT, ALUMINUM       | 5        | Prop    |          |
| BLADE              | LM11692NK*1 | PCP:BLADE UNIT, ALUM, 104510   | 5        | Prop    |          |
| SPINNER            | 104236P     | SPINNER ASSEMBLY               | 1        | Prop    |          |
| SPIN MTG KIT       | B-3384-12H  | BOLT, 1/4-28, HEX HEAD         | 5        | Prop    |          |
| SPIN MTG KIT       | B-3384-17H  | BOLT, 1/4-28, HEX HEAD         | 5        | Prop    |          |
| SPIN MTG KIT       | B-3808-4    | NUT,HEX,SELF-LOCKING           | 10       | Prop    |          |
| SPIN MTG KIT       | B-3851-0463 | WASHER                         | 20       | Prop    |          |
| SP MT KIT DE-ICE   | B-3384-16H  | BOLT, 1/4-28, HEX HEAD         | 5        | Prop    |          |
| SP MT KIT DE-ICE   | B-3384-21H  | BOLT, 1/4-28, HEX HEAD         | 5        | Prop    |          |
| SP MT KIT DE-ICE   | B-3808-4    | NUT,HEX,SELF-LOCKING           | 10       | Prop    |          |
| SP MT KIT DE-ICE   | B-3851-0463 | WASHER                         | 20       | Prop    |          |
| SP MT KIT DE-ICE   | B-7077-52   | BELLEVILLE SPRING WASHER       | 10       | Prop    |          |
| COUNTERWEIGHT SLUG | B-3343-1    | PCP:SLUG, COUNTERWEIGHT        | 1        | Blade   |          |
| COUNTERWEIGHT SLUG | B-3386-14H  | BOLT,3/8-24,HEX HEAD           | 2        | Blade   |          |
| COUNTERWEIGHT SLUG | B-3834-0632 | WASHER                         | 2        | Blade   |          |
| DE-ICER            | 104510      | DE-ICE BOOT                    | 1        | Blade   |          |
| DE-ICE KIT PR      | 104251      | DE-ICE KIT (ONE PROP)          | 1        | Prop    |          |
| DE-ICE KIT A/F     | 105468      | AIRFRAME DE-ICE KIT            | 1        | A/C     |          |
| MTG BOLT/STUD      | B-3339-1    | BOLT,MOUNTING,9/16-18,12 POINT | 8        | Prop    |          |

# HARTZELL

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ANTONOV

IDS No.: 1064 Rev.: 4 IC Date: 01/27/2020

**Model:** AN-38  
**Trade Name:**  
**Aircraft T.C./STC:** Unknown  
**Propeller Model:** HC-B5MA-5A  
**Propeller T.C.:** P44GL

**Modifier:**  
**Engine Model:** TPE331-14GR  
**Power:** 1500 HP @ 1552 RPM  
**Placard/Restr:** A) Stabilized ground operation is prohibited below 1008 (65%) RPM and between 1086 (70%) and 1195 (77%) RPM. B) The engine may be operated in a static ground idle condition only between 65% and 70% RPM and all taxiing and ground operations must be conducted above 77% RPM. C) Aircraft bank angles in excess of 30 degrees are prohibited during normal operation.

**Blade Model(s):** M11276NK-3  
**Prop Diameter:** 112.2"

**Notes:** Refer to Manual 139 for Airworthiness Limitations.

**Prop Setup:**

**Ref. Radius:** 42  
**Reverse Angle:** -15.0 +-0.5  
**Low Pitch Angle:** NA  
**Stud Protrusion**

**Startlock Angle:** -3.4 +-0.1  
**Feather/High Angle:** 82.0 +-0.5  
**Cwt Angle:** 2.5 +-1.5

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type          | Item Number   | Description                    | Quantity | Qty Per | Comments                    |
|--------------------|---------------|--------------------------------|----------|---------|-----------------------------|
| PROPELLER          | B5A10215      | B5MA-5A/M11276NK-3/BULK/DE-ICE | 2        | A/C     |                             |
| PROPELLER          | B5A10215KD    | B5MA-5A/M11276NK-3/BULK/DE-ICE | 2        | A/C     |                             |
| PROPELLER          | B5A10215S     | HC-B5MA-5A/M11276NK-3/E-5760-P | 2        | A/C     |                             |
| PROPELLER          | B5A10215SKD   | HC-B5MA-5A/M11276NK-3/E-5760-P | 2        | A/C     |                             |
| BLADE              | M11276NK-3    | PCP:BLADE UNIT, ALUMINUM       | 5        | Prop    |                             |
| SPINNER            | E-5760-P      | SPINNER ASSEMBLY               | 1        | Prop    |                             |
| SPIN MTG KIT       | B-3384-16H    | BOLT, 1/4-28, HEX HEAD         | 5        | Prop    |                             |
| SPIN MTG KIT       | B-3384-21H    | BOLT, 1/4-28, HEX HEAD         | 5        | Prop    |                             |
| SPIN MTG KIT       | B-3808-4      | NUT,HEX,SELF-LOCKING           | 10       | Prop    |                             |
| SPIN MTG KIT       | B-3851-0463   | WASHER                         | 10       | Prop    |                             |
| COUNTERWEIGHT SLUG | A-890-14      | PCP:SLUG, COUNTERWEIGHT        | 1        | Blade   |                             |
| COUNTERWEIGHT SLUG | B-3384-15H    | BOLT, 1/4-28, HEX HEAD         | 2        | Blade   |                             |
| COUNTERWEIGHT SLUG | B-3386-14H    | BOLT,3/8-24,HEX HEAD           | 2        | Blade   |                             |
| COUNTERWEIGHT SLUG | B-3834-0632   | WASHER                         | 2        | Blade   |                             |
| COUNTERWEIGHT SLUG | C-7268        | PCP:SLUG, COUNTERWEIGHT        | 1        | Blade   |                             |
| DE-ICER            | 4H3055-1      | DE-ICE BOOT                    | 1        | Blade   | Supersedes 7931-4E3055-1    |
| DE-ICE KIT PR      | 7931-67-825-1 | DE-ICE KIT (ONE PROP)          | 1        | Prop    |                             |
| DE-ICE KIT PR      | 7931-67-825-2 | DE-ICE KIT (ONE PROP)          | 1        | Prop    |                             |
| DE-ICE KIT PR      | 7931-67-825-3 | DE-ICE KIT (ONE PROP)          | 1        | Prop    |                             |
| MTG BOLT/STUD      | B-3347        | BOLT,MOUNTING,9/16-18,12 POINT | 12       | Prop    |                             |
| MISC ACCES         | A-6741-158    | EROSION TAPE, 2" WIDE, 108' RL | 0        | Blade   | Included in blade BOM (21") |
| OVERHAUL KIT       | HC-B5MA-5A-OH | O/H KIT                        | 1        | Prop    | For aftermarket use only    |

# HARTZELL

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**APEX**

**Model:** DR 500  
**Trade Name:** PRESIDENT  
**Aircraft T.C./STC:** EU TC 45  
**Propeller Model:** HC-C2YK-1BF  
**Propeller T.C.:** P-920  
**Blade Model(s):** F7666A-2  
**Prop Diameter:** 74"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 14.0 +-0.2  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number    | Description               | Quantity | Qty Per | Comments                 |
|---------------|----------------|---------------------------|----------|---------|--------------------------|
| PROPELLER     | C2K00044       | HC-C2YK-1BF/F7666A-2/SM19 | 1        | A/C     |                          |
| BLADE         | F7666A-2       | PCP:BLADE UNIT, ALUMINUM  | 2        | Prop    |                          |
| SPINNER       | A-2298-2       | SPINNER ASSEMBLY          | 1        | Prop    |                          |
| SPINNER       | A-2298-2P      | SPINNER ASSEMBLY          | 1        | Prop    |                          |
| SPIN MTG KIT  | A-2476-19      | SPINNER - MTG KIT         | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2067         | STUD, MOUNTING, 1/2-20    | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-C2YK-1BF-OH | O/H KIT                   | 1        | Prop    | For aftermarket use only |

**IDS No.:** 117      **Rev.:** 1      **IC Date:** 07/07/2015

**Modifier:**  
**Engine Model:** IO-360-A1B6  
**Power:** 200 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:** Formerly Avions Pierre Robin

**Startlock Angle:** NA  
**Feather/High Angle:** 29.0 +-2.0  
**Cwt Angle:** NA

**Non-HPI Governor:**

**AVI PRO AIRCRAFT**

**Model:** BEARHAWK  
**Trade Name:**  
**Aircraft T.C./STC:** Experimental  
**Propeller Model:** HC-C3YR-1RF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** F8068  
**Prop Diameter:** 82

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.7 +-0.2  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number    | Description                  | Quantity | Qty Per | Comments                 |
|---------------|----------------|------------------------------|----------|---------|--------------------------|
| PROPELLER     | C3R02001       | HC-C3YR-1RF/F8068/SM7        | 1        | A/C     |                          |
| BLADE         | F8068          | PCP:BLADE UNIT, ALUM [1,1,5] | 3        | Prop    |                          |
| SPINNER       | C-3535-1       | SPINNER ASSEMBLY             | 1        | A/C     |                          |
| SPINNER       | C-3535-1P      | SPINNER ASSEMBLY             | 1        | A/C     |                          |
| SPIN MTG KIT  | A-2476-7       | SPINNER - MTG KIT            | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2067         | STUD, MOUNTING, 1/2-20       | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-C3YR-1RF-OH | O/H KIT                      | 1        | Prop    | For aftermarket use only |

**IDS No.:** 2663      **Rev.:** 1      **IC Date:** 07/16/2015

**Modifier:**  
**Engine Model:** O-540-A4A5  
**Power:** 250 HP @ 2575 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:**  
**Feather/High Angle:** 31.0 +-1.0  
**Cwt Angle:** NA

**Non-HPI Governor:**

# HARTZELL

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AVIA LTD.

IDS No.: 1641      Rev.: -      DM Date: 02/14/2008

**Model:** 201  
**Trade Name:** ACCORD  
**Aircraft T.C./STC:** Unknown  
**Propeller Model:** PHC-H3YF-2KUF  
**Propeller T.C.:** P35EA  
**Blade Model(s):** FC7453  
 FC7453B  
**Prop Diameter:** 76.0" TO 75.0"

**Modifier:**  
**Engine Model:** IO-360-ES  
**Power:** 210 HP @ 2800 RPM  
**Placard/Restr:**  
**Notes:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 9.5 +-0.2  
**Stud Protrusion** 1.120 +-0.030

**Startlock Angle:** 15.0 +-1.5  
**Feather/High Angle:** 81.0 +-1.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>        | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>           |
|------------------|--------------------|---------------------------|-----------------|----------------|---------------------------|
| PROPELLER        | H3F00039           | PHC-H3YF-2KUF/FC7453/SM9  | 2               | A/C            |                           |
| PROPELLER        | H3F00040           | PHC-H3YF-2KUF/FC7453B/SM9 | 2               | A/C            |                           |
| BLADE            | FC7453             | PCP:BLADE UNIT, ALUMINUM  | 3               | Prop           |                           |
| BLADE            | FC7453B            | PCP:BLADE UNIT, ALUMINUM  | 3               | Prop           |                           |
| SPINNER          | C-4558-3P          | SPINNER ASSEMBLY          | 1               | Prop           |                           |
| GOVERNOR         | E3-7               | GOVERNOR ASSEMBLY, E-3-() | 0               |                |                           |
| SPIN MTG KIT     | A-2476-9           | SPINNER - MTG KIT         | 1               | Prop           |                           |
| COUNTERWEIGHT    | B-3202H-2          | PCP:COUNTERWEIGHT         | 1               | Blade          | Blade Component           |
| DE-ICER          | 4H1601-10          | DE-ICE BOOT               | 1               | Blade          | Supercedes 7931-4E1601-10 |
| DE-ICE KIT PR    | 7931-5E2689-1      | DE-ICE KIT (ONE PROP)     | 1               | Prop           |                           |
| DE-ICE KIT A/F   | 7931-5E2689-2      | AIRFRAME DE-ICE KIT       | 1               | A/C            |                           |
| MTG BOLT/STUD    | A-2429-3           | STUD, MOUNTING, 1/2-20    | 6               | Prop           |                           |

AVIAMILANO

IDS No.: 104      Rev.: -      DM Date: 10/01/1992

**Model:** see SIAI MARCHETTI  
**Trade Name:**  
**Aircraft T.C./STC:**  
**Propeller Model:**  
**Propeller T.C.:**  
**Blade Model(s):**  
**Prop Diameter:**

**Modifier:**  
**Engine Model:**  
**Power:** HP @ RPM  
**Placard/Restr:**  
**Notes:**

**Prop Setup:**

**Ref. Radius:**  
**Reverse Angle:**  
**Low Pitch Angle:**  
**Stud Protrusion**

**Startlock Angle:**  
**Feather/High Angle:**  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

# HARTZELL

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AVIAN

Model: 1  
Trade Name:  
Aircraft T.C./STC: H5EA  
Propeller Model: HC-E2YK-1  
Propeller T.C.:  
Blade Model(s): FL7280+0.5  
Prop Diameter: 72"

**Prop Setup:**

Ref. Radius: 30  
Reverse Angle: NA  
Low Pitch Angle:  
Stud Protrusion

**Non-HPI Items:**

Non-HPI Spinner:

**Hartzell Approved Items:**

| Item Type     | Item Number | Description             | Quantity | Qty Per | Comments |
|---------------|-------------|-------------------------|----------|---------|----------|
| BLADE         | FL7280+0.5  | IDS ITEM, BLADE [2,2,1] | 2        | Prop    |          |
| MTG BOLT/STUD | A-2067      | STUD, MOUNTING, 1/2-20  | 6        | Prop    |          |

IDS No.: 105 Rev.: - DM Date: 10/01/1992

Modifier:  
Engine Model: IO-360-C1A  
Power: 200 HP @ 2700 RPM  
Placard/Restr:  
Notes:

Startlock Angle: NA  
Feather/High Angle:  
Cwt Angle:

Non-HPI Governor:

AVIAT

Model: A-1, A-1A, A-1B, A-1C-180  
Trade Name: HUSKY  
Aircraft T.C./STC: SA11177SC  
Propeller Model: HC-C2YR-1N  
Propeller T.C.: P-920  
Blade Model(s): NG8301-3  
NG8301-3\*1  
Prop Diameter: 80"

**Prop Setup:**

Ref. Radius: 30"  
Reverse Angle:  
Low Pitch Angle: 10.0 +/- .2 degrees  
Stud Protrusion

**Non-HPI Items:**

Non-HPI Spinner:

**Hartzell Approved Items:**

| Item Type     | Item Number | Description                        | Quantity | Qty Per | Comments                     |
|---------------|-------------|------------------------------------|----------|---------|------------------------------|
| PROPELLER     | C2R40500    | HC-C2YR-1N/NG8301-3/SM8            | 1        | A/C     |                              |
| PROPELLER     | C2R40510    | HC-C2YR-1N/NG8301-3*1/SM8          | 1        | A/C     |                              |
| BLADE         | NG8301-3    | PCP:BLADE ASSY, COMPOSITE          | 2        | Prop    |                              |
| BLADE         | NG8301-3*1  | PCP:BLADE ASSY, COMPOSITE [3,29,1] | 2        | Prop    | Prop blade tips red/base/red |
| SPINNER       | 105656      | SPINNER ASSEMBLY, COMPOSITE        | 1        | Prop    |                              |
| SPINNER       | 105656F1    | SPINNER ASSEMBLY, COMPOSITE        | 1        | Prop    |                              |
| SPINNER       | 105656F2    | SPINNER ASSEMBLY, COMPOSITE        | 1        | Prop    |                              |
| SPINNER       | C-3568      | SPINNER ASSEMBLY                   | 1        | Prop    |                              |
| SPINNER       | C-3568-P    | SPINNER ASSEMBLY                   | 1        | Prop    |                              |
| SPIN MTG KIT  | A-2476-8    | SPINNER - MTG KIT                  | 1        | Prop    |                              |
| MTG BOLT/STUD | A-2067      | STUD, MOUNTING, 1/2-20             | 6        | Prop    |                              |

IDS No.: 3283 Rev.: 4 IC Date: 12/15/2014

Modifier:  
Engine Model: O-360-C1G, O-360-A1P  
Power: 180 HP @ 2700 RPM  
Placard/Restr:  
Notes:

Startlock Angle:  
Feather/High Angle: 30.0 +/- 1.0  
Cwt Angle:

Non-HPI Governor:

# HARTZELL

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AVIAT

IDS No.: 3311 Rev.: 1 IC Date: 02/17/2015

**Model:** A-1C-200  
**Trade Name:** HUSKY  
**Aircraft T.C./STC:** SA11177SC  
**Propeller Model:** HC-C2YR-1N  
**Propeller T.C.:** P-920  
**Blade Model(s):** NG8301-3  
 NG8301-3\*1  
**Prop Diameter:** 80"

**Modifier:** Hartzell Propeller  
**Engine Model:** IO-360-A1D6  
**Power:** 200 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Prop Setup:**

**Ref. Radius:** 30"  
**Reverse Angle:**  
**Low Pitch Angle:** 10.5 +/- .2 degrees  
**Stud Protrusion**

**Startlock Angle:**  
**Feather/High Angle:** 30.0 +/- 1.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>                  | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|-------------------------------------|-----------------|----------------|-----------------|
| PROPELLER        | C2R40600           | HC-C2YR-1N/NG8301-3/SM8             | 1               | A/C            |                 |
| PROPELLER        | C2R40610           | HC-C2YR-1N/NG8301-3[*1]/SM8         | 1               | A/C            |                 |
| BLADE            | NG8301-3           | PCP:BLADE ASSY, COMPOSITE           | 2               | Prop           |                 |
| BLADE            | NG8301-3*1         | PCP:BLADE ASSY, COMPOSITE [3,29,11] | 2               | Prop           |                 |
| SPINNER          | 105656             | SPINNER ASSEMBLY, COMPOSITE         | 1               | Prop           |                 |
| SPINNER          | 105656F1           | SPINNER ASSEMBLY, COMPOSITE         | 1               | Prop           |                 |
| SPINNER          | 105656F2           | SPINNER ASSEMBLY, COMPOSITE         | 1               | Prop           |                 |
| SPINNER          | C-3568             | SPINNER ASSEMBLY                    | 1               | Prop           |                 |
| SPINNER          | C-3568-P           | SPINNER ASSEMBLY                    | 1               | Prop           |                 |
| SPIN MTG KIT     | A-2476-8           | SPINNER - MTG KIT                   | 1               | Prop           |                 |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20              | 6               | Prop           |                 |

# HARTZELL

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Aviat

IDS No.: 3787      Rev.: -      IC      Date: 09/02/2020

**Model:** S-2(B,C)  
**Trade Name:** Pitts  
**Aircraft T.C./STC:** Experimental  
**Propeller Model:** HC-C3YR-4BNW  
**Propeller T.C.:** P25EA  
**Blade Model(s):** NC8302W-7  
**Prop Diameter:** 78"

**Modifier:**  
**Engine Model:** AEIO-540-D4A5  
**Power:** 260 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** 10.6 +- 0.1  
**Stud Protrusion**

**Startlock Angle:**  
**Feather/High Angle:** 31.0 +- 1.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>             | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|--------------------------------|-----------------|----------------|-----------------|
| PROPELLER        | C3R67208           | HC-C3YR-4BNW/NC8302W-7/SM34    | 1               | A/C            |                 |
| BLADE            | NC8302W-7          | PCP: BLADE ASSEMBLY, COMPOSITE | 3               | Prop           |                 |
| SPINNER          | D-7409-3           | SPINNER ASSEMBLY, COMPOSITE    | 1               | A/C            |                 |
| SPIN MTG KIT     | A-2476-34          | SPINNER - MTG KIT              | 1               | Prop           |                 |
| COUNTERWEIGHT    | 102437-2           | PCP:COUNTERWEIGHT              | 1               | Blade          |                 |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20         | 6               | Prop           |                 |



# HARTZELL

## APPLICATION GUIDE

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AVIAT

IDS No.: 1710      Rev.: 1      IC      Date: 07/15/2015

**Model:** S-2(B, C)  
**Trade Name:** PITTS  
**Aircraft T.C./STC:** Experimental  
**Propeller Model:** HC-C3YR-4A  
**Propeller T.C.:** P25EA  
**Blade Model(s):** C7690E  
**Prop Diameter:** 78"

**Modifier:**  
**Engine Model:** AEIO-540-D4A5  
**Power:** 260 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 10.7 +-0.1  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 35.0 +-1.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u>            | <u>Item Number</u> | <u>Description</u>          | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|-----------------------------|--------------------|-----------------------------|-----------------|----------------|--------------------------|
| PROPELLER                   | C3R00275           | HC-C3YR-4A/C7690E/SM6       | 1               | A/C            |                          |
| PROPELLER                   | C3R00280           | HC-C3YR-4A/C7690E/SM34      | 1               | A/C            |                          |
| BLADE                       | C7690E             | PCP:BLADE ASSY, COMPOSITE   | 3               | Prop           |                          |
| SPINNER                     | D-7267-P           | SPINNER ASSEMBLY            | 1               | Prop           |                          |
| SPINNER                     | D-7409             | SPINNER ASSEMBLY, COMPOSITE | 1               | Prop           | Composite Assy           |
| GOVERNOR                    | F6-59              | GOVERNOR ASSEMBLY, F-6-( )  | 1               | A/C            |                          |
| GOVERNOR                    | F6-59Z             | GOVERNOR ASSEMBLY, F-6-( )  | 1               | A/C            |                          |
| SPIN MTG KIT                | A-2476-34          | SPINNER - MTG KIT           | 1               | Prop           | Use w/D-7409 Only        |
| SPIN MTG KIT                | A-2476-6           | SPINNER - MTG KIT           | 1               | Prop           | Use w/D-7267P Only       |
| COUNTERWEIGHT               | D-7248             | PCP:CLAMP, COUNTERWEIGHT    | 1               | Blade          | Blade Component          |
| COUNTERWEIGHT SLUG A-1744   |                    | BOLT,3/8-24,HEX HEAD        | 2               | Blade          | Blade Component          |
| COUNTERWEIGHT SLUG A-2043-1 |                    | NUT,3/8-24,HEX,SELF-LOCKING | 2               | Blade          | Blade Component          |
| COUNTERWEIGHT SLUG C-7249   |                    | SLUG, COUNTERWEIGHT         | 2               | Blade          | Blade Component          |
| MTG BOLT/STUD               | A-2067             | STUD, MOUNTING, 1/2-20      | 6               | Prop           |                          |
| OVERHAUL KIT                | HC-C3YR-4A-OH      | O/H KIT                     | 1               | Prop           | For aftermarket use only |

# HARTZELL

## APPLICATION GUIDE

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AVIAT

IDS No.: 1557 Rev.: 1 IC Date: 07/07/2015

**Model:** A-1, A-1A, A-1B  
**Trade Name:** HUSKY  
**Aircraft T.C./STC:** SA1446SE  
**Propeller Model:** HC-C2YR-1BF  
**Propeller T.C.:** P-920

**Modifier:** GATE 9 AIRCRAFT (AEROMARK)  
**Engine Model:** O-360-C1G  
**Power:** 180 HP @ 2700 RPM  
**Placard/Restr:** Propeller must be equipped with C-1576 Damper Assembly.

**Blade Model(s):** F8477-4  
 F8477-4\*1  
 F8477-4\*2  
**Prop Diameter:** 80" TO 78"

**Notes:** Must use C-1576 damper assembly

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 10.0 +/-0.2  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 30.9+-1.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>             | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|--------------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | C2R00074           | HC-C2YR-1BF/F8477-4/SM16/C1576 | 1               | A/C            |                          |
| PROPELLER        | C2R00084           | HC-C2YR-1BF/F8477-4[*1]/SM16   | 1               | A/C            |                          |
| PROPELLER        | C2R00086           | HC-C2YR-1BF/F8477-4[*2]/SM16   | 1               | A/C            |                          |
| BLADE            | F8477-4            | PCP:BLADE UNIT, ALUM [1,1,1]   | 2               | Prop           |                          |
| BLADE            | F8477-4*1          | PCP:BLADE UNIT, ALUM [3,1,1]   | 2               | Prop           |                          |
| BLADE            | F8477-4*2          | PCP:BLADE UNIT, ALUM [6,1,1]   | 2               | Prop           |                          |
| SPINNER          | 836-60             | SPINNER ASSEMBLY               | 1               | Prop           |                          |
| SPINNER          | C-3568             | SPINNER ASSEMBLY               | 1               | Prop           |                          |
| SPINNER          | C-3568-P           | SPINNER ASSEMBLY               | 1               | Prop           |                          |
| GOVERNOR         | S-1-16             | GOVERNOR ASSEMBLY, S-1-16      | 1               | A/C            |                          |
| GOVERNOR         | V3-6               | GOVERNOR ASSEMBLY, V-3-( )     | 1               | A/C            |                          |
| SPIN MTG KIT     | A-2476-16          | SPINNER - MTG KIT              | 1               | Prop           |                          |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20         | 6               | Prop           |                          |
| DAMPER           | C-1576             | DAMPER ASSEMBLY                | 1               | Prop           |                          |
| OVERHAUL KIT     | HC-C2YR-1BF-OH     | O/H KIT                        | 1               | Prop           | For aftermarket use only |

# HARTZELL

## APPLICATION GUIDE 159

AVIAT

IDS No.: 106      Rev.: 1      IC      Date: 07/07/2015

**Model:** A-1  
**Trade Name:** HUSKY  
**Aircraft T.C./STC:** A22NM  
**Propeller Model:** HC-C2YK-1BF  
**Propeller T.C.:** P-920

**Modifier:**  
**Engine Model:** O-360-C1G  
**Power:** 180 HP @ 2700 RPM  
**Placard/Restr:** Avoid continuous operation between 2000 and 2250 RPM

**Blade Model(s):** F7666A  
 F7666A\*1  
**Prop Diameter:** 76" TO 72"

**Notes:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 11.7 +-0.2  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 29.0 +-1.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>           | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|------------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | C2K00036           | HC-C2YK-1BF/F7666A[*1]/SM8   | 1               | A/C            |                          |
| PROPELLER        | C2K00040           | HC-C2YK-1BF/F7666A/SM8       | 1               | A/C            |                          |
| BLADE            | F7666A             | PCP:BLADE UNIT, ALUM [1,1,1] | 2               | Prop           |                          |
| BLADE            | F7666A*1           | PCP:BLADE UNIT, ALUM [3,1,1] | 2               | Prop           |                          |
| SPINNER          | 836-60             | SPINNER ASSEMBLY             | 1               | Prop           |                          |
| GOVERNOR         | S-1-16             | GOVERNOR ASSEMBLY, S-1-16    | 1               | A/C            |                          |
| GOVERNOR         | V3-6               | GOVERNOR ASSEMBLY, V-3-( )   | 1               | A/C            |                          |
| SPIN MTG KIT     | A-2476-8           | SPINNER - MTG KIT            | 1               | Prop           |                          |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20       | 6               | Prop           |                          |
| OVERHAUL KIT     | HC-C2YK-1BF-OH     | O/H KIT                      | 1               | Prop           | For aftermarket use only |

# HARTZELL

## APPLICATION GUIDE 159

AVIAT

IDS No.: 2701      Rev.: 1      IC Date: 07/07/2015

**Model:** A-1C-180, A-1C-200  
**Trade Name:** HUSKY  
**Aircraft T.C./STC:** A22NM  
**Propeller Model:** HC-C2YR-1BF  
**Propeller T.C.:** P-920

**Modifier:**  
**Engine Model:** O-360-A1P, IO-360-A1D6  
**Power:** 200 HP @ 2700 RPM  
**Placard/Restr:** None; Propeller must be equipped with Hartzell model C-1576 damper assembly when used with the O-360-A1P engine.

**Blade Model(s):** F8477-4\*1  
**Prop Diameter:** 80 to 78

**Notes:** O-360-A1P engine rating is 175 HP at 2600 RPM.

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** 10.3 +-0.2  
**Stud Protrusion**

**Startlock Angle:**  
**Feather/High Angle:** 30.9 +-1.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>           | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|------------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | C2R00088           | HC-C2YR-1BF/F8477-4[*1]/SM16 | 1               | A/C            |                          |
| PROPELLER        | C2R00089           | HC-C2YR-1BF/F8477-4[*1]/SM8  | 1               | A/C            |                          |
| BLADE            | F8477-4*1          | PCP:BLADE UNIT, ALUM [3,1,1] | 2               | Prop           |                          |
| SPINNER          | 836-60             | SPINNER ASSEMBLY             | 1               | A/C            |                          |
| SPINNER          | 836-60P            | SPINNER ASSEMBLY             | 1               | A/C            |                          |
| SPINNER          | C-3568             | SPINNER ASSEMBLY             | 1               | A/C            |                          |
| SPINNER          | C-3568-P           | SPINNER ASSEMBLY             | 1               | A/C            |                          |
| GOVERNOR         | V3-6               | GOVERNOR ASSEMBLY, V-3(-)    | 1               | A/C            |                          |
| SPIN MTG KIT     | A-2476-16          | SPINNER - MTG KIT            | 1               | Prop           |                          |
| SPIN MTG KIT     | A-2476-8           | SPINNER - MTG KIT            | 1               | Prop           |                          |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20       | 6               | Prop           |                          |
| DAMPER           | C-1576             | DAMPER ASSEMBLY              | 1               | Prop           |                          |
| OVERHAUL KIT     | HC-C2YR-1BF-OH     | O/H KIT                      | 1               | Prop           | For aftermarket use only |

# HARTZELL

## APPLICATION GUIDE

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AVIAT

IDS No.: 2891      Rev.: -      DM Date: 09/10/2009

**Model:** A-1C-180  
**Trade Name:** HUSKY  
**Aircraft T.C./STC:** A22NM  
**Propeller Model:** HC-C2YR-1N  
**Propeller T.C.:** P-920  
**Blade Model(s):** N7605  
**Prop Diameter:** 76

**Modifier:**  
**Engine Model:** O-360-A1P  
**Power:** 180 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** 10.5 +-0.2  
**Stud Protrusion**

**Startlock Angle:**  
**Feather/High Angle:** 30.0 +-1.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>             | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>             |
|------------------|--------------------|--------------------------------|-----------------|----------------|-----------------------------|
| PROPELLER        | C2R31050           | HC-C2YR-1N/N7605/SM8           | 1               | A/C            |                             |
| BLADE            | N7605              | PCP:BLADE ASSY, COMPOSITE      | 2               | Prop           |                             |
| SPINNER          | 836-60             | SPINNER ASSEMBLY               | 1               | Prop           |                             |
| SPINNER          | 836-60P            | SPINNER ASSEMBLY               | 1               | Prop           |                             |
| GOVERNOR         | S-1-16             | GOVERNOR ASSEMBLY, S-1-16      | 1               | A/C            |                             |
| SPIN MTG KIT     | A-2476-8           | SPINNER - MTG KIT              | 1               | Prop           |                             |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20         | 6               | Prop           |                             |
| MISC ACCES       | A-6741-158         | EROSION TAPE, 2" WIDE, 108' RL | 0               | Blade          | Included in blade BOM (12") |

# HARTZELL

## APPLICATION GUIDE

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AVIAT

IDS No.: 2678      Rev.: 1      IC      Date: 07/15/2015

**Model:** S-2(B,C)  
**Trade Name:** PITTS  
**Aircraft T.C./STC:** A8SO  
**Propeller Model:** HC-C3YR-4A  
**Propeller T.C.:** P25EA  
**Blade Model(s):** C7690E  
**Prop Diameter:** 78"

**Modifier:**  
**Engine Model:** AEIO-540-D4A5  
**Power:** 260 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 9.4 +-0.1  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 32.0 +-1.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u>            | <u>Item Number</u> | <u>Description</u>          | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|-----------------------------|--------------------|-----------------------------|-----------------|----------------|--------------------------|
| PROPELLER                   | C3R00278           | HC-C3YR-4A/C7690E/SM6       | 1               | A/C            |                          |
| BLADE                       | C7690E             | PCP:BLADE ASSY, COMPOSITE   | 3               | Prop           |                          |
| SPINNER                     | D-7267-P           | SPINNER ASSEMBLY            | 1               | Prop           |                          |
| GOVERNOR                    | F6-59Z             | GOVERNOR ASSEMBLY, F-6-( )  | 1               | A/C            |                          |
| SPIN MTG KIT                | A-2476-6           | SPINNER - MTG KIT           | 1               | Prop           |                          |
| COUNTERWEIGHT               | D-7248             | PCP:CLAMP, COUNTERWEIGHT    | 1               | Blade          | Blade Component          |
| COUNTERWEIGHT SLUG A-1744   |                    | BOLT,3/8-24,HEX HEAD        | 2               | Blade          | Blade Component          |
| COUNTERWEIGHT SLUG A-2043-1 |                    | NUT,3/8-24,HEX,SELF-LOCKING | 2               | Blade          | Blade Component          |
| COUNTERWEIGHT SLUG C-7249   |                    | SLUG, COUNTERWEIGHT         | 2               | Blade          | Blade Component          |
| MTG BOLT/STUD               | A-2067             | STUD, MOUNTING, 1/2-20      | 6               | Prop           |                          |
| OVERHAUL KIT                | HC-C3YR-4A-OH      | O/H KIT                     | 1               | Prop           | For aftermarket use only |

# HARTZELL

## APPLICATION GUIDE

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AVIAT (CHRISTEN)

IDS No.: 107 Rev.: 2 IC Date: 07/07/2015

Model: EAGLE II

Modifier:

Trade Name:

Engine Model: AEIO-360-A1D

Aircraft T.C./STC: Experimental

Power: 200 HP @ 2700 RPM

Propeller Model: HC-C2YK-4CF

Placard/Restr: Avoid continuous operation between 2000-2350 RPM and above 2600 RPM DURING aeorbatic flight

Propeller T.C.: P-920

Notes:

Blade Model(s): FC7666A-2

FC7666A-4Q

Prop Diameter: 74"

### Prop Setup:

Ref. Radius: 30

Startlock Angle: NA

Reverse Angle: NA

Feather/High Angle: 29.0 +-1.0

Low Pitch Angle: 13.5 +-0.2

Cwt Angle:

Stud Protrusion

### Non-HPI Items:

Non-HPI Spinner:

Non-HPI Governor:

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>            | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|-------------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | C2K00610           | HC-C2YK-4CF/FC7666A-2/SM8     | 1               | A/C            |                          |
| PROPELLER        | C2K00612           | HC-C2YK-4CF/FC7666A-4Q/SM8    | 1               | A/C            |                          |
| BLADE            | FC7666A-2          | PCP:BLADE UNIT, B-3202H-6 CWT | 2               | Prop           |                          |
| BLADE            | FC7666A-4Q         | PCP:BLADE UNIT, B-3202H-6 CWT | 2               | Prop           |                          |
| SPINNER          | 836-60             | SPINNER ASSEMBLY              | 1               | Prop           |                          |
| GOVERNOR         | F6-56              | GOVERNOR ASSEMBLY, F-6-( )    | 1               | A/C            |                          |
| SPIN MTG KIT     | A-2476-8           | SPINNER - MTG KIT             | 1               | Prop           |                          |
| COUNTERWEIGHT    | B-3202H-6          | PCP:COUNTERWEIGHT             | 1               | Blade          | Blade Component          |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20        | 6               | Prop           |                          |
| OVERHAUL KIT     | HC-C2YK-4CF-OH     | O/H KIT                       | 1               | Prop           | For aftermarket use only |

# HARTZELL

## APPLICATION GUIDE

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AVIAT (PITTS)

IDS No.: 108      Rev.: 1      IC      Date: 07/07/2015

**Model:** S-1T  
**Trade Name:** PITTS  
**Aircraft T.C./STC:** A8SO  
**Propeller Model:** HC-C2YK-4CF  
**Propeller T.C.:** P-920

**Modifier:**  
**Engine Model:** AEIO-360-A1D, -A1E  
**Power:** 200 HP @ 2700 RPM  
**Placard/Restr:** Avoid continuous operation between 2000-2350 RPM and above 2600 RPM during aerobatic flight

**Blade Model(s):** FC7666A-2  
**Prop Diameter:** 74" TO 72"

**Notes:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.5 +-0.2  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 28.0 +-0.5  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>            | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|-------------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | C2K00608           | HC-C2YK-4CF/FC7666A-2/SM8     | 1               | A/C            |                          |
| BLADE            | FC7666A-2          | PCP:BLADE UNIT, B-3202H-6 CWT | 2               | Prop           |                          |
| SPINNER          | 836-60             | SPINNER ASSEMBLY              | 1               | Prop           |                          |
| GOVERNOR         | F6-3A              | GOVERNOR ASSEMBLY, F-6-( )    | 1               | A/C            | S/N 2                    |
| GOVERNOR         | F6-58Z             | GOVERNOR ASSEMBLY, F-6-( )    | 1               | A/C            | S/N 1007-UP              |
| SPIN MTG KIT     | A-2476-8           | SPINNER - MTG KIT             | 1               | Prop           |                          |
| COUNTERWEIGHT    | B-3202H-6          | PCP:COUNTERWEIGHT             | 1               | Blade          | Blade Component          |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20        | 6               | Prop           |                          |
| OVERHAUL KIT     | HC-C2YK-4CF-OH     | O/H KIT                       | 1               | Prop           | For aftermarket use only |



# HARTZELL

## APPLICATION GUIDE

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### AVIAT (PITTS)

**Model:** S-1-11B  
**Trade Name:** PITTS SPECIAL  
**Aircraft T.C./STC:** Experimental  
**Propeller Model:** HC-C3YR-1A  
**Propeller T.C.:** P25EA  
**Blade Model(s):** 7690E  
**Prop Diameter:** 78" NO CUT OFF

**IDS No.:** 1224      **Rev.:** 1      **IC Date:** 07/16/2015

**Modifier:**  
**Engine Model:** AEIO-540-K1( )5  
**Power:** 300 HP @ 2700 RPM  
**Placard/Restr:**

**Notes:** Governor requires A-3144-2 Governor Drive Extension & C-6059 Valve Assembly with B-1104 Gasket.

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.0 +-0.1  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 33.0 +-1.0  
**Cwt Angle:**

#### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:**

#### Hartzell Approved Items:

| Item Type     | Item Number   | Description                  | Quantity | Qty Per | Comments                   |
|---------------|---------------|------------------------------|----------|---------|----------------------------|
| PROPELLER     | C3R00012      | HC-C3YR-1A/7690E/SM6         | 1        | A/C     |                            |
| BLADE         | 7690E         | PCP:BLADE ASSY, COMP [3,1,1] | 3        | Prop    |                            |
| SPINNER       | D-6936-P      | SPINNER ASSEMBLY             | 1        | Prop    | REQ'D IF USING 7690E BLADE |
| GOVERNOR      | E2-1          | GOVERNOR ASSEMBLY, E-2-( )   | 1        | A/C     |                            |
| SPIN MTG KIT  | A-2476-6      | SPINNER - MTG KIT            | 1        | Prop    |                            |
| MTG BOLT/STUD | A-2067        | STUD, MOUNTING, 1/2-20       | 6        | Prop    |                            |
| OVERHAUL KIT  | HC-C3YR-1A-OH | O/H KIT                      | 1        | Prop    | For aftermarket use only   |

### AVIAT (PITTS)

**Model:** S-2A  
**Trade Name:** PITTS  
**Aircraft T.C./STC:** A8SO  
**Propeller Model:** HC-C2YK-4AF  
**Propeller T.C.:** P-920  
**Blade Model(s):** FC7666A-2  
**Prop Diameter:** 74" TO 72"

**IDS No.:** 109      **Rev.:** -      **DM Date:** 02/01/2001

**Modifier:**  
**Engine Model:** IO-360-A1A, AEIO-360-A1A, -A1E  
**Power:** 200 HP @ 2700 RPM  
**Placard/Restr:**

**Notes:**

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.5 +-0.1  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 24.0 +-0.5  
**Cwt Angle:**

#### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:**

#### Hartzell Approved Items:

| Item Type     | Item Number | Description                   | Quantity | Qty Per | Comments            |
|---------------|-------------|-------------------------------|----------|---------|---------------------|
| PROPELLER     | C2K00540    | HC-C2YK-4AF/FC7666A-2/SM8     | 1        | A/C     |                     |
| BLADE         | FC7666A-2   | PCP:BLADE UNIT, B-3202H-6 CWT | 2        | Prop    |                     |
| SPINNER       | 836-60      | SPINNER ASSEMBLY              | 1        | Prop    | 836-52(old)         |
| GOVERNOR      | F6-3A       | GOVERNOR ASSEMBLY, F-6-( )    | 1        | A/C     | S/N 1001, 2001-2205 |
| GOVERNOR      | F6-58Z      | GOVERNOR ASSEMBLY, F-6-( )    | 1        | A/C     | S/N 2206 & UP       |
| SPIN MTG KIT  | A-2476-8    | SPINNER - MTG KIT             | 1        | Prop    |                     |
| COUNTERWEIGHT | B-3202H-6   | PCP:COUNTERWEIGHT             | 1        | Blade   | Blade Component     |
| MTG BOLT/STUD | A-2067      | STUD, MOUNTING, 1/2-20        | 6        | Prop    |                     |

# HARTZELL

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AVIAT (PITTS)

IDS No.: 1226 Rev.: 2 IC Date: 07/16/2015

**Model:** S-2(B,C)  
**Trade Name:** PITTS  
**Aircraft T.C./STC:** A8SO  
**Propeller Model:** HC-C3YR-1A  
**Propeller T.C.:** P25EA  
**Blade Model(s):** 7690E  
**Prop Diameter:** 78" NO CUT OFF

**Modifier:**  
**Engine Model:** AEIO-540-D4A5  
**Power:** 260 HP @ 2700 RPM  
**Placard/Restr:**

**Notes:** Governor requires A-3144-2 Governor Drive Extension & C-6059 Valve Assembly with B-1104 Gasket. Refer to Manual 145 for Airworthiness Limitations.

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 9.4 +-0.1  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 32.0 +-1.0  
**Cwt Angle:**

### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>           | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|------------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | C3R00011           | HC-C3YR-1A/7690E/SM6         | 1               | A/C            |                          |
| BLADE            | 7690E              | PCP:BLADE ASSY, COMP [3,1,1] | 3               | Prop           |                          |
| SPINNER          | D-6936-P           | SPINNER ASSEMBLY             | 1               | Prop           |                          |
| GOVERNOR         | E2-2               | GOVERNOR ASSEMBLY, E-2-( )   | 1               | A/C            |                          |
| SPIN MTG KIT     | A-2476-6           | SPINNER - MTG KIT            | 1               | Prop           |                          |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20       | 6               | Prop           |                          |
| OVERHAUL KIT     | HC-C3YR-1A-OH      | O/H KIT                      | 1               | Prop           | For aftermarket use only |

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### AVIAT (PITTS)

**Model:** S-2S, S-2B  
**Trade Name:** PITTS  
**Aircraft T.C./STC:** A8SO  
**Propeller Model:** HC-C2YR-4CF  
**Propeller T.C.:** P-920  
**Blade Model(s):** FC8477A-4\*1  
**Prop Diameter:** 80.0" TO 78.0"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 11.0 +-0.1  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 110      **Rev.:** 2      **IC Date:** 07/07/2015

**Modifier:**

**Engine Model:** AEIO-540-D4A5

**Power:** 260 HP @ 2700 RPM

**Placard/Restr:**

**Notes:** Reference Manual 115N for Airworthiness Limitations.

**Startlock Angle:** NA

**Feather/High Angle:** 33.0 +-1.0

**Cwt Angle:**

**Non-HPI Governor:**

#### Hartzell Approved Items:

| Item Type     | Item Number    | Description                   | Quantity | Qty Per | Comments                 |
|---------------|----------------|-------------------------------|----------|---------|--------------------------|
| PROPELLER     | C2R00260       | HC-C2YR-4CF/FC8477A-4[*1]/SM8 | 1        | A/C     |                          |
| BLADE         | FC8477A-4*1    | PCP:BLADE UNIT, B-3202H-8     | 2        | Prop    |                          |
| SPINNER       | 836-60         | SPINNER ASSEMBLY              | 1        | Prop    |                          |
| SPINNER       | 836-60P        | SPINNER ASSEMBLY              | 1        | Prop    |                          |
| GOVERNOR      | F6-59Z         | GOVERNOR ASSEMBLY, F-6-( )    | 1        | A/C     |                          |
| SPIN MTG KIT  | A-2476-8       | SPINNER - MTG KIT             | 1        | Prop    |                          |
| COUNTERWEIGHT | B-3202H-8      | PCP:COUNTERWEIGHT             | 1        | Blade   | Blade Component          |
| MTG BOLT/STUD | A-2067         | STUD, MOUNTING, 1/2-20        | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-C2YR-4CF-OH | O/H KIT                       | 1        | Prop    | For aftermarket use only |

### AVIONS MUDRY

**Model:** CAP 20  
**Trade Name:**  
**Aircraft T.C./STC:** Unknown  
**Propeller Model:** HC-C2YK-4F  
**Propeller T.C.:** P-920  
**Blade Model(s):** FC7666A\*1  
**Prop Diameter:** 76"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.0 +-0.1  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 669      **Rev.:** -      **DM Date:** 11/10/2002

**Modifier:**

**Engine Model:** AIO-360-B1A

**Power:** 200 HP @ 2700 RPM

**Placard/Restr:**

**Notes:**

**Startlock Angle:** NA

**Feather/High Angle:** 29.0 +-2.0

**Cwt Angle:**

**Non-HPI Governor:**

#### Hartzell Approved Items:

| Item Type     | Item Number | Description                   | Quantity | Qty Per | Comments        |
|---------------|-------------|-------------------------------|----------|---------|-----------------|
| PROPELLER     | C2K00690    | HC-C2YK-4F/FC7666A*1          | 1        | A/C     |                 |
| BLADE         | FC7666A*1   | PCP:BLADE UNIT, B-3202H-6 CWT | 2        | Prop    |                 |
| SPINNER       | C-2513-5    | SPINNER ASSEMBLY              | 1        | Prop    |                 |
| COUNTERWEIGHT | B-3202H-6   | PCP:COUNTERWEIGHT             | 1        | Blade   | Blade Component |
| MTG BOLT/STUD | A-2067      | STUD, MOUNTING, 1/2-20        | 6        | Prop    |                 |

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AVIONS PIERRE ROBIN

IDS No.: 115 Rev.: 1 IC Date: 07/07/2015

Model: HR 100/200  
Trade Name:  
Aircraft T.C./STC: EASA TC 61  
Propeller Model: HC-F2YR-1F  
Propeller T.C.: P27EA  
Blade Model(s): F7666A-2  
Prop Diameter: 74"

Modifier:  
Engine Model: IO-360-A1D6  
Power: 200 HP @ 2700 RPM  
Placard/Restr:  
Notes:

### Prop Setup:

Ref. Radius: 30  
Reverse Angle: NA  
Low Pitch Angle: 14.0 +-0.1  
Stud Protrusion

Startlock Angle: NA  
Feather/High Angle: 29.0 +-2.0  
Cwt Angle:

### Non-HPI Items:

Non-HPI Spinner:

Non-HPI Governor:

### Hartzell Approved Items:

| Item Type     | Item Number   | Description              | Quantity | Qty Per | Comments                 |
|---------------|---------------|--------------------------|----------|---------|--------------------------|
| PROPELLER     | F2R00034      | HC-F2YR-1F/F7666A-2      | 1        | A/C     |                          |
| BLADE         | F7666A-2      | PCP:BLADE UNIT, ALUMINUM | 2        | Prop    |                          |
| MTG BOLT/STUD | A-2067        | STUD, MOUNTING, 1/2-20   | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-F2YR-1F-OH | O/H KIT                  | 1        | Prop    | For aftermarket use only |

AVIONS PIERRE ROBIN

IDS No.: 116 Rev.: - DM Date: 10/03/2005

Model: HR 100/210  
Trade Name:  
Aircraft T.C./STC: Unknown  
Propeller Model: BHC-J2YF-1BF  
Propeller T.C.: P37EA  
Blade Model(s): F7663  
Prop Diameter: 76"

Modifier:  
Engine Model: IO-360-C, -D(B)  
Power: 210 HP @ 2800 RPM  
Placard/Restr:  
Notes:

### Prop Setup:

Ref. Radius: 30  
Reverse Angle: NA  
Low Pitch Angle: 14.0 +-0.2  
Stud Protrusion 1.120 +-0.030

Startlock Angle: NA  
Feather/High Angle: 30.0 +-1.0  
Cwt Angle:

### Non-HPI Items:

Non-HPI Spinner:

Non-HPI Governor: WOODWARD

### Hartzell Approved Items:

| Item Type     | Item Number | Description              | Quantity | Qty Per | Comments |
|---------------|-------------|--------------------------|----------|---------|----------|
| PROPELLER     | J2F00006    | BHC-J2YF-1BF/F7663/SM8   | 1        | A/C     |          |
| BLADE         | F7663       | PCP:BLADE UNIT, ALUMINUM | 2        | Prop    |          |
| SPINNER       | 835-23      | SPINNER ASSEMBLY         | 1        | Prop    |          |
| SPINNER       | 835-23P     | SPINNER ASSEMBLY         | 1        | Prop    |          |
| SPIN MTG KIT  | A-2476-8    | SPINNER - MTG KIT        | 1        | Prop    |          |
| MTG BOLT/STUD | A-2429-3    | STUD, MOUNTING, 1/2-20   | 6        | Prop    |          |

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AVIONS PIERRE ROBIN

**Model:** ROBIN  
**Trade Name:**  
**Aircraft T.C./STC:** Unknown  
**Propeller Model:** HC-C2YK-1BF  
**Propeller T.C.:** P-920  
**Blade Model(s):** F8468-6R  
**Prop Diameter:** 78"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.0 +-0.1  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 118      **Rev.:** -      **DM Date:** 10/01/1992

**Modifier:**  
**Engine Model:** O-540-B4B5  
**Power:** 235 HP @ 2575 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 30.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:** WOODWARD

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>       | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|--------------------------|-----------------|----------------|-----------------|
| BLADE            | F8468-6R           | PCP:BLADE UNIT, ALUMINUM | 2               | Prop           |                 |
| SPINNER          | 835-23             | SPINNER ASSEMBLY         | 1               | Prop           |                 |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20   | 6               | Prop           |                 |

AVIONS PIERRE ROBIN

**Model:** ROBIN  
**Trade Name:**  
**Aircraft T.C./STC:** Unknown  
**Propeller Model:** HC-C2YK-1BF  
**Propeller T.C.:** P-920  
**Blade Model(s):** F8477-4  
**Prop Diameter:** 80"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.0 +-0.1  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 119      **Rev.:** 1      **IC Date:** 07/07/2015

**Modifier:**  
**Engine Model:** O-540-C4B5  
**Power:** 250 HP @ 2575 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 32.0 +-2.0  
**Cwt Angle:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>           | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|------------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | C2K00174           | HC-C2YK-1BF/F8477-4          | 1               | A/C            |                          |
| BLADE            | F8477-4            | PCP:BLADE UNIT, ALUM [1,1,1] | 2               | Prop           |                          |
| SPINNER          | 835-23             | SPINNER ASSEMBLY             | 1               | Prop           |                          |
| GOVERNOR         | F4-3A              | GOVERNOR ASSEMBLY, F-4-( )   | 1               | A/C            |                          |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20       | 6               | Prop           |                          |
| OVERHAUL KIT     | HC-C2YK-1BF-OH     | O/H KIT                      | 1               | Prop           | For aftermarket use only |

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AVIPRO

**Model:** BearHawk  
**Trade Name:** Bearhawk  
**Aircraft T.C./STC:** Experimental  
**Propeller Model:** HC-C3Y1R-1NX  
**Propeller T.C.:**  
**Blade Model(s):** NG8301-3X1  
**Prop Diameter:** 82"

**IDS No.:** 3493      **Rev.:** 7      **IC Date:** 11/30/2021

**Modifier:**  
**Engine Model:** IO-540, IO-540-K1H5  
**Power:** 250 HP @ 2575 RPM  
**Placard/Restr:** None.

**Notes:** Remove TC and PC numbers from hub and blades. Remove propeller assembly S/N.

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** N/A  
**Low Pitch Angle:** 11.0 ±0.2  
**Stud Protrusion**

**Startlock Angle:** N/A  
**Feather/High Angle:** 28.0 ±1.0  
**Cwt Angle:**

### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>          | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|-----------------------------|-----------------|----------------|-----------------|
| PROPELLER        | C3R65500X          | HC-C3Y1R-1NX/NG8301-3X1/SM7 | 1               | A/C            |                 |
| BLADE            | NG8301-3X1         | PCP:BLADE ASSY, COMPOSITE   | 3               | Prop           |                 |
| SPINNER          | C-3575             | SPINNER ASSEMBLY            | 1               | Prop           |                 |
| SPINNER          | C-3575-P           | SPINNER ASSEMBLY            | 1               | Prop           |                 |
| GOVERNOR         | S-1-15             | GOVERNOR ASSEMBLY, S-1-15   | 1               | A/C            |                 |
| GOVERNOR         | S-1-87             | GOVERNOR ASSEMBLY, S-1-87   | 1               | A/C            |                 |
| SPIN MTG KIT     | A-2476-7           | SPINNER - MTG KIT           | 1               | Prop           |                 |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20      | 6               | Prop           |                 |

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### AVIPRO AIRCRAFT

**Model:** Bearhawk  
**Trade Name:**  
**Aircraft T.C./STC:** Experimental  
**Propeller Model:** HC-C2YR-1BFP  
**Propeller T.C.:** P-920

**Blade Model(s):** F8477-4  
**Prop Diameter:** 80"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** 10.5 +/- 0.2  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

#### Hartzell Approved Items:

| Item Type     | Item Number    | Description                  | Quantity | Qty Per | Comments                 |
|---------------|----------------|------------------------------|----------|---------|--------------------------|
| PROPELLER     | C2R11250       | HC-C2YR-1BFP/F8477-4/SM19    | 1        | A/C     |                          |
| BLADE         | F8477-4        | PCP:BLADE UNIT, ALUM [1,1,1] | 2        | Prop    |                          |
| SPINNER       | A-2298-2P      | SPINNER ASSEMBLY             | 1        | Prop    |                          |
| GOVERNOR      | S-1-22         | GOVERNOR ASSEMBLY, S-1-22    | 1        | A/C     |                          |
| SPIN MTG KIT  | A-2476-19      | SPINNER - MTG KIT            | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2067         | STUD, MOUNTING, 1/2-20       | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-C2YR-1BF-OH | O/H KIT                      | 1        | Prop    | For aftermarket use only |

**IDS No.:** 3180      **Rev.:** 1      **IC Date:** 07/07/2015

**Modifier:**

**Engine Model:** IO-390-X

**Power:** 210 HP @ 2700 RPM

**Placard/Restr:** Continuous operation is prohibited above 24" manifold pressure below 2250 RPM, and below 8" manifold pressure between 1950 and 2300 RPM.

**Notes:**

**Startlock Angle:**

**Feather/High Angle:** 30.0 +/- 1.0

**Cwt Angle:**

**Non-HPI Governor:**

### AVIPRO AIRCRAFT

**Model:** BEARHAWK  
**Trade Name:**  
**Aircraft T.C./STC:** Experimental  
**Propeller Model:** HC-C2YR-1BF  
**Propeller T.C.:** P-920

**Blade Model(s):** F8477-4  
**Prop Diameter:** 80"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 15.0 +/-0.2  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

#### Hartzell Approved Items:

| Item Type     | Item Number    | Description                  | Quantity | Qty Per | Comments                 |
|---------------|----------------|------------------------------|----------|---------|--------------------------|
| PROPELLER     | C2R00082       | HC-C2YR-1BF/F8477-4/SM19     | 1        | A/C     |                          |
| BLADE         | F8477-4        | PCP:BLADE UNIT, ALUM [1,1,1] | 2        | Prop    |                          |
| SPINNER       | A-2298-2       | SPINNER ASSEMBLY             | 1        | Prop    |                          |
| SPINNER       | A-2298-2P      | SPINNER ASSEMBLY             | 1        | Prop    |                          |
| SPIN MTG KIT  | A-2476-19      | SPINNER - MTG KIT            | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2067         | STUD, MOUNTING, 1/2-20       | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-C2YR-1BF-OH | O/H KIT                      | 1        | Prop    | For aftermarket use only |

**IDS No.:** 2426      **Rev.:** 1      **IC Date:** 07/07/2015

**Modifier:**

**Engine Model:** O-540-A4A5

**Power:** 250 HP @ 2575 RPM

**Placard/Restr:**

**Notes:**

**Startlock Angle:** NA

**Feather/High Angle:** 31.0 +/-1.0

**Cwt Angle:**

**Non-HPI Governor:**

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AYRES

IDS No.: 1862      Rev.: 3      D      Date: 06/04/2013

**Model:** S-2R  
**Trade Name:** TURBO THRUSH  
**Aircraft T.C./STC:** SA00902CH  
**Propeller Model:** HC-B3TW-3  
**Propeller T.C.:** P15EA

**Modifier:** TURBINE CONVERSIONS, LTD  
**Engine Model:** M601E-11  
**Power:** 777 HP @ 2080 RPM  
**Placard/Restr:** Propeller blades must be shot peened between stations 7.0 AND 24.0 on both face and camber sides

**Blade Model(s):** T10282NS+4  
**Prop Diameter:**

**Notes:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** -8.0 +-0.5  
**Low Pitch Angle:** 18.0 +-0.1  
**Stud Protrusion** 1.740 +-0.010

**Startlock Angle:** NA  
**Feather/High Angle:** 87.0 +-1.0  
**Cwt Angle:** Positive

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u>               | <u>Item Number</u> | <u>Description</u>             | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|--------------------------------|--------------------|--------------------------------|-----------------|----------------|-----------------|
| PROPELLER                      | B3W10002S          | HC-B3TW-3/T10282NS+4/D-3434-6P | 1               | A/C            |                 |
| BLADE                          | T10282NS+4         | PCP:BLADE UNIT, ALUMINUM       | 3               | Prop           |                 |
| SPINNER                        | D-3434-6           | SPINNER ASSEMBLY               | 1               | Prop           |                 |
| SPINNER                        | D-3434-6P          | SPINNER ASSEMBLY               | 1               | Prop           |                 |
| COUNTERWEIGHT SLUG A-3039      |                    | SLUG, COUNTERWEIGHT            | 1               | Blade          |                 |
| COUNTERWEIGHT SLUG A-890-6     |                    | PCP:SLUG, COUNTERWEIGHT        | 1               | Blade          | Primary         |
| COUNTERWEIGHT SLUG A-890-8     |                    | PCP:SLUG, COUNTERWEIGHT        | 1               | Blade          | Alternate       |
| COUNTERWEIGHT SLUG A-890-9     |                    | PCP:SLUG, COUNTERWEIGHT        | 1               | Blade          | Alternate       |
| COUNTERWEIGHT SLUG B-3384-21H  |                    | BOLT, 1/4-28, HEX HEAD         | 2               | Blade          |                 |
| COUNTERWEIGHT SLUG B-3851-0432 |                    | WASHER                         | 2               | Blade          | Optional        |
| COUNTERWEIGHT SLUG B-3851-0463 |                    | WASHER                         | 2               | Blade          | Optional        |
| MTG BOLT/STUD                  | A-3254             | STUD, MOUNTING, 9/16-18        | 8               | Prop           |                 |
| MTG BOLT/STUD                  | B-7458             | NUT,9/16-18,HEX,SELF-LOCKING   | 8               | Prop           |                 |



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AYRES

IDS No.: 127      Rev.: 1      D      Date: 06/04/2013

**Model:** S-2R  
**Trade Name:** TURBO THRUSH  
**Aircraft T.C./STC:** STC-SA4039SW  
**Propeller Model:** HC-B3TN-3D  
**Propeller T.C.:** P15EA  
**Blade Model(s):** T10282  
                                  T10282N  
**Prop Diameter:** 102.0"

**Modifier:** PAGE INDUSTRIES  
**Engine Model:** LTP-101-600A  
**Power:** 600 HP @ 1950 RPM  
**Placard/Restr:**  
**Notes:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** -5.0 +-0.5  
**Low Pitch Angle:** 18.0 +-0.1  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 90.0 +-0.5  
**Cwt Angle:** 3.0 +-2.0

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u>               | <u>Item Number</u> | <u>Description</u>                | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|--------------------------------|--------------------|-----------------------------------|-----------------|----------------|-----------------|
| BLADE                          | T10282             | BLADE                             | 3               | Prop           |                 |
| BLADE                          | T10282N            | PCP:BLADE UNIT, ALUMINUM          | 3               | Prop           |                 |
| SPINNER                        | C-3065             | SPINNER ASSEMBLY                  | 1               | Prop           |                 |
| COUNTERWEIGHT SLUG A-3039      |                    | SLUG, COUNTERWEIGHT               | 1               | Blade          |                 |
| COUNTERWEIGHT SLUG A-890-6     |                    | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          | Primary         |
| COUNTERWEIGHT SLUG A-890-8     |                    | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          | Alternate       |
| COUNTERWEIGHT SLUG A-890-9     |                    | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          | Alternate       |
| COUNTERWEIGHT SLUG B-3384-21H  |                    | BOLT, 1/4-28, HEX HEAD            | 2               | Blade          |                 |
| COUNTERWEIGHT SLUG B-3851-0432 |                    | WASHER                            | 2               | Blade          | Optional        |
| COUNTERWEIGHT SLUG B-3851-0463 |                    | WASHER                            | 2               | Blade          | Optional        |
| MTG BOLT/STUD                  | B-3339             | BOLT, MOUNTING, 9/16-18, 12 POINT | 8               | Prop           |                 |

# HARTZELL

## APPLICATION GUIDE 159

AYRES

IDS No.: 1595 Rev.: 4 IC Date: 10/01/2015

**Model:** S-2R  
**Trade Name:** TURBO THRUSH  
**Aircraft T.C./STC:** STC SA2792SW  
**Propeller Model:** HC-B3TN-3D  
**Propeller T.C.:** P15EA  
**Blade Model(s):** T10282N+4  
 T10282NS+4  
**Prop Diameter:** 106.5" TO 98.0"

**Modifier:** SOUTHERN AGRO TURBINES  
**Engine Model:** PT6A-15AG, -20(A), -21, -27, -28, -34(AG)  
**Power:** 750 HP @ 2200 RPM  
**Placard/Restr:**

**Notes:** Engine Ratings Note: Some engines listed rated at 500h or 680hp

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** -8.0 +-0.5  
**Low Pitch Angle:** 18.0 +-0.1  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 87.0 +-1.0  
**Cwt Angle:** Positive

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type                      | Item Number   | Description                       | Quantity | Qty Per | Comments                 |
|--------------------------------|---------------|-----------------------------------|----------|---------|--------------------------|
| PROPELLER                      | B3N10453      | HC-B3TN-3D/T10282N+4/BULKHEAD     | 1        | A/C     |                          |
| PROPELLER                      | B3N10453S     | HC-B3TN-3D/T10282N+4/D-3434-6P    | 1        | A/C     |                          |
| PROPELLER                      | B3N10453SKD   | HC-B3TN-3D/T10282N+4/D-3434-6P    | 1        | A/C     |                          |
| PROPELLER                      | B3N10457S     | HC-B3TN-3D/T10282NS+4/D3434-6P    | 1        | A/C     |                          |
| BLADE                          | T10282N+4     | PCP:BLADE UNIT, ALUM [1,1,1]      | 3        | Prop    |                          |
| BLADE                          | T10282NS+4    | PCP:BLADE UNIT, ALUMINUM          | 3        | Prop    |                          |
| SPINNER                        | D-3434-6      | SPINNER ASSEMBLY                  | 1        | A/C     |                          |
| SPINNER                        | D-3434-6P     | SPINNER ASSEMBLY                  | 1        | A/C     |                          |
| SPIN MTG KIT                   | B-3384-4H     | BOLT, 1/4-28, HEX HEAD            | 12       | Prop    |                          |
| SPIN MTG KIT                   | B-3808-4      | NUT, HEX, SELF-LOCKING            | 12       | Prop    |                          |
| SPIN MTG KIT                   | B-3851-0432   | WASHER                            | 24       | Prop    |                          |
| COUNTERWEIGHT SLUG A-3039      |               | SLUG, COUNTERWEIGHT               | 1        | Blade   |                          |
| COUNTERWEIGHT SLUG A-890-6     |               | PCP:SLUG, COUNTERWEIGHT           | 1        | Blade   | Primary                  |
| COUNTERWEIGHT SLUG A-890-8     |               | PCP:SLUG, COUNTERWEIGHT           | 1        | Blade   | Alternate                |
| COUNTERWEIGHT SLUG A-890-9     |               | PCP:SLUG, COUNTERWEIGHT           | 1        | Blade   | Alternate                |
| COUNTERWEIGHT SLUG B-3384-21H  |               | BOLT, 1/4-28, HEX HEAD            | 2        | Blade   |                          |
| COUNTERWEIGHT SLUG B-3851-0432 |               | WASHER                            | 2        | Blade   | Optional                 |
| COUNTERWEIGHT SLUG B-3851-0463 |               | WASHER                            | 2        | Blade   | Optional                 |
| MTG BOLT/STUD                  | B-3339        | BOLT, MOUNTING, 9/16-18, 12 POINT | 8        | Prop    |                          |
| MISC ACCES                     | A-3044        | BLOCK, BETA FEEDBACK- ASSEMBLY    | 1        | Prop    |                          |
| OVERHAUL KIT                   | HC-B3TN-3D-OH | O/H KIT                           | 1        | Prop    | For aftermarket use only |

# HARTZELL

## APPLICATION GUIDE

159

AYRES

**Model:** S-2R-T()  
**Trade Name:** TURBO THRUSH  
**Aircraft T.C./STC:** STC (SOUTH AFRICA)  
**Propeller Model:** HC-B3TN-3AE  
**Propeller T.C.:** P15EA

**Blade Model(s):** T10290N  
**Prop Diameter:** 102" max. refer to STC for min.

### Prop Setup:

**Ref. Radius:** 42"  
**Reverse Angle:** -15.0 +-0.5  
**Low Pitch Angle:** 10.0 +-0.2  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

### Hartzell Approved Items:

**IDS No.:** 1633      **Rev.:** 2      **D**      **Date:** 11/01/2013

**Modifier:** ORSMOND AERIAL SPRAYING

**Engine Model:** PT6A-61

**Power:** 845 HP @ 2000 RPM

**Placard/Restr:** Maximum allowable reverse blade angle is -16 degrees at 42 inch radius.

### **Notes:**

**Startlock Angle:** NA

**Feather/High Angle:** 78.0 +-1.0

**Cwt Angle:** Positive

**Non-HPI Governor:**

| <u>Item Type</u>               | <u>Item Number</u> | <u>Description</u>                | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|--------------------------------|--------------------|-----------------------------------|-----------------|----------------|-----------------|
| PROPELLER                      | B3N10544           | HC-B3TN-3AE/T10290N               | 1               | A/C            |                 |
| BLADE                          | T10290N            | PCP:BLADE UNIT, ALUMINUM          | 3               | Prop           |                 |
| SPINNER                        | D-3434-12          | SPINNER ASSEMBLY                  | 1               | Prop           |                 |
| SPINNER                        | D-3434-12P         | SPINNER ASSEMBLY                  | 1               | Prop           |                 |
| COUNTERWEIGHT SLUG B-3386-14H  |                    | BOLT,3/8-24,HEX HEAD              | 2               | Blade          |                 |
| COUNTERWEIGHT SLUG B-3663-4    |                    | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          |                 |
| COUNTERWEIGHT SLUG B-3834-0632 |                    | WASHER                            | 2               | Blade          |                 |
| MTG BOLT/STUD                  | B-3339             | BOLT, MOUNTING, 9/16-18, 12 POINT | 8               | Prop           |                 |

# HARTZELL

## APPLICATION GUIDE

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AYRES

IDS No.: 128 Rev.: 4 IC Date: 01/27/2020

Model: S-2R  
 Trade Name: TURBO THRUSH  
 Aircraft T.C./STC: STC SA3927WE  
 Propeller Model: HC-B3TN-5E  
 Propeller T.C.: P15EA  
 Blade Model(s): T10282N+4  
 Prop Diameter: 106.5"

Modifier: FLOYD D. STILWELL  
 Engine Model: TPE331-1()  
 Power: 665 HP @ 2000 RPM  
 Placard/Restr:

Notes: STC could also be SA3227WE with TPE331-25( ) engines.

### Prop Setup:

Ref. Radius: 30  
 Reverse Angle: -3.0 +-0.5  
 Low Pitch Angle:  
 Stud Protrusion

Startlock Angle: 2.5 +-0.1  
 Feather/High Angle: 90.0 +-0.5  
 Cwt Angle: Positive

### Non-HPI Items:

Non-HPI Spinner:

Non-HPI Governor:

### Hartzell Approved Items:

| Item Type                      | Item Number   | Description                       | Quantity | Qty Per | Comments                 |
|--------------------------------|---------------|-----------------------------------|----------|---------|--------------------------|
| PROPELLER                      | B3N10726S     | HC-B3TN-5E/T10282N+4/C-3043-2P    | 1        | A/C     |                          |
| BLADE                          | T10282N+4     | PCP:BLADE UNIT, ALUM [1,1,1]      | 3        | Prop    |                          |
| SPINNER                        | C-3043-2P     | SPINNER ASSEMBLY                  | 1        | Prop    |                          |
| COUNTERWEIGHT SLUG A-3039      |               | SLUG, COUNTERWEIGHT               | 1        | Blade   |                          |
| COUNTERWEIGHT SLUG A-890-6     |               | PCP:SLUG, COUNTERWEIGHT           | 1        | Blade   | Primary                  |
| COUNTERWEIGHT SLUG A-890-8     |               | PCP:SLUG, COUNTERWEIGHT           | 1        | Blade   | Alternate                |
| COUNTERWEIGHT SLUG A-890-9     |               | PCP:SLUG, COUNTERWEIGHT           | 1        | Blade   | Alternate                |
| COUNTERWEIGHT SLUG B-3384-21H  |               | BOLT, 1/4-28, HEX HEAD            | 2        | Blade   |                          |
| COUNTERWEIGHT SLUG B-3851-0432 |               | WASHER                            | 2        | Blade   | Optional                 |
| COUNTERWEIGHT SLUG B-3851-0463 |               | WASHER                            | 2        | Blade   | Optional                 |
| MTG BOLT/STUD                  | B-3339        | BOLT, MOUNTING, 9/16-18, 12 POINT | 8        | Prop    |                          |
| OVERHAUL KIT                   | HC-B3TN-5E-OH | O/H KIT                           | 1        | Prop    | For aftermarket use only |

# HARTZELL

## APPLICATION GUIDE

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AYRES

IDS No.: 1542 Rev.: 3 IC Date: 01/27/2020

**Model:** S-2R  
**Trade Name:** TURBO THRUSH  
**Aircraft T.C./STC:** STC-SA5953NM  
**Propeller Model:** HC-B3TN-5V  
**Propeller T.C.:** P15EA  
**Blade Model(s):** T10290N+2  
**Prop Diameter:** 104" max. refer. to STC for min.

**Modifier:** GOERING AIRCRAFT  
**Engine Model:** TPE331-1, -2, -5  
**Power:** 665 HP @ 2000 RPM  
**Placard/Restr:**

**Notes:** Maximum allowable reverse blade angle is -16 degrees at 42 inch radius.

### Prop Setup:

**Ref. Radius:** 42"  
**Reverse Angle:** -15.5 +/-0.5  
**Low Pitch Angle:**  
**Stud Protrusion**

**Startlock Angle:** 1.0 +/-0.2  
**Feather/High Angle:** 78.0 +/-1.0  
**Cwt Angle:** Positive

### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| Item Type          | Item Number | Description                       | Quantity | Qty Per | Comments |
|--------------------|-------------|-----------------------------------|----------|---------|----------|
| PROPELLER          | B3N11657S   | HC-B3TN-5V/T10290N+2/C-3043-2P    | 1        | A/C     |          |
| BLADE              | T10290N+2   | PCP:BLADE UNIT, ALUM [1,1,1]      | 3        | Prop    |          |
| SPINNER            | C-3043-2    | SPINNER ASSEMBLY                  | 1        | Prop    |          |
| SPINNER            | C-3043-2P   | SPINNER ASSEMBLY                  | 1        | Prop    |          |
| SPINNER            | C-3043-3    | SPINNER ASSEMBLY                  | 1        | Prop    |          |
| SPINNER            | C-3043-3P   | SPINNER ASSEMBLY                  | 1        | Prop    |          |
| COUNTERWEIGHT SLUG | B-3386-14H  | BOLT,3/8-24,HEX HEAD              | 2        | Blade   |          |
| COUNTERWEIGHT SLUG | B-3663-4    | PCP:SLUG, COUNTERWEIGHT           | 1        | Blade   |          |
| COUNTERWEIGHT SLUG | B-3834-0632 | WASHER                            | 2        | Blade   |          |
| MTG BOLT/STUD      | B-3339      | BOLT, MOUNTING, 9/16-18, 12 POINT | 8        | Prop    |          |

# HARTZELL

## APPLICATION GUIDE

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AYRES

IDS No.: 1793 Rev.: 6 IC Date: 01/27/2020

**Model:** S-2R  
**Trade Name:** TURBO THRUSH  
**Aircraft T.C./STC:** STC-SA5953NM  
**Propeller Model:** HC-B4TN-5NL  
**Propeller T.C.:** P40EA

**Modifier:** GOERING AIRCRAFT  
**Engine Model:** TPE331-5-252  
**Power:** 776 HP @ 1591 RPM  
**Placard/Restr:** Stabilized ground operation is prohibited below 1082 (68%) RPM and between 1352 (85%) and 1464 (92%) RPM

**Blade Model(s):** LT10890N  
 LT10890N\*1

**Notes:**

**Prop Diameter:** 109.5"

**Prop Setup:**

**Ref. Radius:** 42  
**Reverse Angle:** -11.5 +-0.5  
**Low Pitch Angle:** NA

**Startlock Angle:** -1.4 +-0.1  
**Feather/High Angle:** 81.2 +-0.5  
**Cwt Angle:** 2.0 +-1.0

**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type                      | Item Number    | Description                       | Quantity | Qty Per | Comments  |
|--------------------------------|----------------|-----------------------------------|----------|---------|---|
| PROPELLER                      | B4N10982       | HC-B4TN-5NL/LT10890N              | 1        | A/C     |   |
| PROPELLER                      | B4N10982S      | HC-B4TN-5NL/LT10890N/D-3434-7P    | 1        | A/C     |   |
| PROPELLER                      | B4N10982SKD    | HC-B4TN-5NL/LT10890N/D-3434-7P    | 1        | A/C     |   |
| PROPELLER                      | B4N10987       | HC-B4TN-5NL/LT10890N[*1]          | 1        | A/C     | Blades do not have tip stripe on face side of blade |
| BLADE                          | LT10890N       | BLADE UNIT, ALUMINUM [1,3,1]      | 4        | Prop    |   |
| BLADE                          | LT10890N*1     | PCP:BLADE UNIT, ALUM [1,1,1]      | 4        | Prop    | Do not have tip stripe on face side                 |
| SPINNER                        | D-3434-7       | SPINNER ASSEMBLY                  | 1        | Prop    |   |
| SPINNER                        | D-3434-7P      | SPINNER ASSEMBLY                  | 1        | Prop    |   |
| COUNTERWEIGHT SLUG A-890-8     |                | PCP:SLUG, COUNTERWEIGHT           | 1        | Blade   |   |
| COUNTERWEIGHT SLUG B-3384-9H   |                | BOLT, 1/4-28, HEX HEAD            | 2        | Blade   |   |
| COUNTERWEIGHT SLUG B-3386-14H  |                | BOLT,3/8-24,HEX HEAD              | 2        | Blade   |   |
| COUNTERWEIGHT SLUG B-3663-1    |                | PCP:SLUG, COUNTERWEIGHT           | 1        | Blade   |   |
| COUNTERWEIGHT SLUG B-3834-0632 |                | WASHER                            | 2        | Blade   |   |
| COUNTERWEIGHT SLUG B-3851-0432 |                | WASHER                            | 2        | Blade   | Optional  |
| COUNTERWEIGHT SLUG B-3851-0463 |                | WASHER                            | 2        | Blade   | Optional  |
| MTG BOLT/STUD                  | B-3339         | BOLT, MOUNTING, 9/16-18, 12 POINT | 8        | Prop    |   |
| OVERHAUL KIT                   | HC-B4TN-5NL-OH | O/H KIT                           | 1        | Prop    | For aftermarket use only                            |

# HARTZELL

## APPLICATION GUIDE

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AYRES

IDS No.: 131 Rev.: 4 IC Date: 01/27/2020

**Model:** S-2R  
**Trade Name:** TURBO THRUSH  
**Aircraft T.C./STC:** STC-SA5953NM

**Modifier:** GOERING AIRCRAFT  
**Engine Model:** TPE331-1-151(A,G,K), -2-201(A,C), -5-252(B,M)

**Propeller Model:** HC-B3TN-5C, -5M

**Power:** 665 HP @ 2000 RPM

**Propeller T.C.:** P15EA

**Placard/Restr:**

**Blade Model(s):** T10282+4  
T10282N+4

**Notes:**

**Prop Diameter:** 106.5" TO 102.0"

**Prop Setup:**

**Ref. Radius:** 30

**Startlock Angle:** 2.0 +-0.2

**Reverse Angle:** -8.0 +-0.5

**Feather/High Angle:** 81.0 +-0.5

**Low Pitch Angle:**

**Cwt Angle:** Positive

**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u>               | <u>Item Number</u> | <u>Description</u>                | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|--------------------------------|--------------------|-----------------------------------|-----------------|----------------|--------------------------|
| PROPELLER                      | B3N10909           | HC-B3TN-5M/T10282N+4              | 1               | A/C            |                          |
| PROPELLER                      | B3N10912S          | HC-B3TN-5M/T10282N+4/C-3043-2P    | 0               |                |                          |
| BLADE                          | T10282+4           | BLADE                             | 3               | Prop           |                          |
| BLADE                          | T10282N+4          | PCP:BLADE UNIT, ALUM [1,1,1]      | 3               | Prop           |                          |
| SPINNER                        | C-3043-2           | SPINNER ASSEMBLY                  | 1               | Prop           |                          |
| SPINNER                        | C-3043-2P          | SPINNER ASSEMBLY                  | 1               | Prop           |                          |
| SPINNER                        | C-3043-3           | SPINNER ASSEMBLY                  | 1               | Prop           |                          |
| SPINNER                        | C-3043-3P          | SPINNER ASSEMBLY                  | 1               | Prop           |                          |
| COUNTERWEIGHT SLUG A-3039      |                    | SLUG, COUNTERWEIGHT               | 1               | Blade          |                          |
| COUNTERWEIGHT SLUG A-890-6     |                    | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          | Primary                  |
| COUNTERWEIGHT SLUG A-890-8     |                    | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          | Alternate                |
| COUNTERWEIGHT SLUG A-890-9     |                    | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          | Alternate                |
| COUNTERWEIGHT SLUG B-3384-21H  |                    | BOLT, 1/4-28, HEX HEAD            | 2               | Blade          |                          |
| COUNTERWEIGHT SLUG B-3851-0432 |                    | WASHER                            | 2               | Blade          | Optional                 |
| COUNTERWEIGHT SLUG B-3851-0463 |                    | WASHER                            | 2               | Blade          | Optional                 |
| MTG BOLT/STUD                  | B-3339             | BOLT, MOUNTING, 9/16-18, 12 POINT | 8               | Prop           |                          |
| OVERHAUL KIT                   | HC-B3TN-5M-OH      | O/H KIT                           | 1               | Prop           | For aftermarket use only |

# HARTZELL

## APPLICATION GUIDE 159

AYRES

IDS No.: 132      Rev.: 3      IC      Date: 01/27/2020

**Model:** S-2R  
**Trade Name:** TURBO THRUSH  
**Aircraft T.C./STC:** STC-SA8685SW  
**Propeller Model:** HC-B3TN-5C, -5M  
**Propeller T.C.:** P15EA  
**Blade Model(s):** T10282+4  
                                  T10282N+4  
**Prop Diameter:** 106.5" TO 102.0"

**Modifier:** AAA FLYING SERVICE  
**Engine Model:** TPE331-1-151(A,G,K), -2-201A  
**Power:** 600 HP @ 2000 RPM  
**Placard/Restr:**  
**Notes:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** -8.0 +-0.5  
**Low Pitch Angle:**  
**Stud Protrusion**

**Startlock Angle:** 2.0 +-0.2  
**Feather/High Angle:** 81.0 +-0.5  
**Cwt Angle:** Positive

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u>               | <u>Item Number</u> | <u>Description</u>                | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|--------------------------------|--------------------|-----------------------------------|-----------------|----------------|-----------------|
| BLADE                          | T10282+4           | BLADE                             | 3               | Prop           |                 |
| BLADE                          | T10282N+4          | PCP:BLADE UNIT, ALUM [1,1,1]      | 3               | Prop           |                 |
| COUNTERWEIGHT SLUG A-3039      |                    | SLUG, COUNTERWEIGHT               | 1               | Blade          |                 |
| COUNTERWEIGHT SLUG A-890-6     |                    | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          | Primary         |
| COUNTERWEIGHT SLUG A-890-8     |                    | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          | Alternate       |
| COUNTERWEIGHT SLUG A-890-9     |                    | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          | Alternate       |
| COUNTERWEIGHT SLUG B-3384-21H  |                    | BOLT, 1/4-28, HEX HEAD            | 2               | Blade          |                 |
| COUNTERWEIGHT SLUG B-3851-0432 |                    | WASHER                            | 2               | Blade          | Optional        |
| COUNTERWEIGHT SLUG B-3851-0463 |                    | WASHER                            | 2               | Blade          | Optional        |
| MTG BOLT/STUD                  | B-3339             | BOLT, MOUNTING, 9/16-18, 12 POINT | 8               | Prop           |                 |



# HARTZELL

## APPLICATION GUIDE

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AYRES

IDS No.: 1072      Rev.: 3      IC      Date: 01/27/2020

**Model:** S-2R-G1  
**Trade Name:** TURBO THRUSH  
**Aircraft T.C./STC:** STC-SA3237WE  
**Propeller Model:** HC-B3TN-5M  
**Propeller T.C.:** P15EA  
**Blade Model(s):** T10282+4  
    T10282N+4  
**Prop Diameter:** 106.0" TO 98.0"

**Modifier:** AYRES CORPORATION  
**Engine Model:** TPE331-1-151A  
**Power:** 665 HP @ 2000 RPM  
**Placard/Restr:**  
**Notes:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** -6.0 +-0.5  
**Low Pitch Angle:**  
**Stud Protrusion**

**Startlock Angle:** 2.0 +-0.1  
**Feather/High Angle:** 89.0 +-0.5  
**Cwt Angle:** Positive

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u>               | <u>Item Number</u> | <u>Description</u>                | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|--------------------------------|--------------------|-----------------------------------|-----------------|----------------|-----------------|
| BLADE                          | T10282+4           | BLADE                             | 3               | Prop           |                 |
| BLADE                          | T10282N+4          | PCP:BLADE UNIT, ALUM [1,1,1]      | 3               | Prop           |                 |
| SPINNER                        | D-3434-1           | SPINNER ASSEMBLY                  | 1               | Prop           |                 |
| SPINNER                        | D-3434-1P          | SPINNER ASSEMBLY                  | 1               | Prop           |                 |
| COUNTERWEIGHT SLUG A-3039      |                    | SLUG, COUNTERWEIGHT               | 1               | Blade          |                 |
| COUNTERWEIGHT SLUG A-890-6     |                    | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          | Primary         |
| COUNTERWEIGHT SLUG A-890-8     |                    | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          | Alternate       |
| COUNTERWEIGHT SLUG A-890-9     |                    | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          | Alternate       |
| COUNTERWEIGHT SLUG B-3384-21H  |                    | BOLT, 1/4-28, HEX HEAD            | 2               | Blade          |                 |
| COUNTERWEIGHT SLUG B-3851-0432 |                    | WASHER                            | 2               | Blade          | Optional        |
| COUNTERWEIGHT SLUG B-3851-0463 |                    | WASHER                            | 2               | Blade          | Optional        |
| MTG BOLT/STUD                  | B-3339             | BOLT, MOUNTING, 9/16-18, 12 POINT | 8               | Prop           |                 |

# HARTZELL

## APPLICATION GUIDE 159

AYRES

IDS No.: 1181      Rev.: 3      IC      Date: 01/27/2020

**Model:** S-2R-G5, -G10  
**Trade Name:** TURBO THRUSH  
**Aircraft T.C./STC:** A4SW  
**Propeller Model:** HC-B4TN-5NL  
**Propeller T.C.:** P40EA  
**Blade Model(s):** LT10890N\*1  
**Prop Diameter:** 109.5" TO 107.5"

**Modifier:**  
**Engine Model:** TPE331-5 (TPE-331-10, S2R-G10)  
**Power:** 900 HP @ 1591 RPM  
**Placard/Restr:** See 8110-3 dated 12/7/95  
**Notes:** Engine Ratings Note: TPE331-5 (750hp)  
 Blades are to have tip stripes on camber side only

**Prop Setup:**

**Ref. Radius:** 42  
**Reverse Angle:** -11.5 +-0.5  
**Low Pitch Angle:** NA  
**Stud Protrusion**

**Startlock Angle:** -1.4 +-0.1  
**Feather/High Angle:** 81.2 +-0.5  
**Cwt Angle:** 2.0 +-1.0

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u>               | <u>Item Number</u> | <u>Description</u>                | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|--------------------------------|--------------------|-----------------------------------|-----------------|----------------|--------------------------|
| PROPELLER                      | B4N10984S          | HC-B4TN-5NL/LT10890N[*1]/+SPIN    | 1               | A/C            |                          |
| BLADE                          | LT10890N*1         | PCP:BLADE UNIT, ALUM [1,1,1]      | 4               | Prop           |                          |
| SPINNER                        | D-3434-7P          | SPINNER ASSEMBLY                  | 1               | Prop           |                          |
| COUNTERWEIGHT SLUG A-890-8     |                    | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          |                          |
| COUNTERWEIGHT SLUG B-3384-9H   |                    | BOLT, 1/4-28, HEX HEAD            | 2               | Blade          |                          |
| COUNTERWEIGHT SLUG B-3386-14H  |                    | BOLT, 3/8-24, HEX HEAD            | 2               | Blade          |                          |
| COUNTERWEIGHT SLUG B-3663-1    |                    | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          |                          |
| COUNTERWEIGHT SLUG B-3834-0632 |                    | WASHER                            | 2               | Blade          |                          |
| COUNTERWEIGHT SLUG B-3851-0432 |                    | WASHER                            | 2               | Blade          | Optional                 |
| COUNTERWEIGHT SLUG B-3851-0463 |                    | WASHER                            | 2               | Blade          | Optional                 |
| MTG BOLT/STUD                  | B-3339             | BOLT, MOUNTING, 9/16-18, 12 POINT | 8               | Prop           |                          |
| OVERHAUL KIT                   | HC-B4TN-5NL-OH     | O/H KIT                           | 1               | Prop           | For aftermarket use only |

# HARTZELL

## APPLICATION GUIDE

159

AYRES

IDS No.: 120      Rev.: 2      D      Date: 06/04/2013

**Model:** S-2R-T11  
**Trade Name:** TURBO THRUSH  
**Aircraft T.C./STC:** A4SW, A3SW  
**Propeller Model:** HC-B3TN-3C  
**Propeller T.C.:** P15EA  
**Blade Model(s):** T10282  
                                  T10282N  
**Prop Diameter:** 102.0" TO 92.5

**Modifier:**  
**Engine Model:** PT6A-11AG  
**Power:** 500 HP @ 2200 RPM  
**Placard/Restr:**  
**Notes:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** -11.0 +-1.0  
**Low Pitch Angle:** 16.0 +-0.1  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 89.0 +-1.0  
**Cwt Angle:** Positive

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u>               | <u>Item Number</u> | <u>Description</u>                | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|--------------------------------|--------------------|-----------------------------------|-----------------|----------------|-----------------|
| BLADE                          | T10282             | BLADE                             | 3               | Prop           |                 |
| BLADE                          | T10282N            | PCP:BLADE UNIT, ALUMINUM          | 3               | Prop           |                 |
| COUNTERWEIGHT SLUG A-3039      |                    | SLUG, COUNTERWEIGHT               | 1               | Blade          |                 |
| COUNTERWEIGHT SLUG A-890-6     |                    | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          | Primary         |
| COUNTERWEIGHT SLUG A-890-8     |                    | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          | Alternate       |
| COUNTERWEIGHT SLUG A-890-9     |                    | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          | Alternate       |
| COUNTERWEIGHT SLUG B-3384-21H  |                    | BOLT, 1/4-28, HEX HEAD            | 2               | Blade          |                 |
| COUNTERWEIGHT SLUG B-3851-0432 |                    | WASHER                            | 2               | Blade          | Optional        |
| COUNTERWEIGHT SLUG B-3851-0463 |                    | WASHER                            | 2               | Blade          | Optional        |
| MTG BOLT/STUD                  | B-3339             | BOLT, MOUNTING, 9/16-18, 12 POINT | 8               | Prop           |                 |

AYRES

IDS No.: 123      Rev.: 3      D      Date: 06/04/2013

**Model:** S-2R-T11, -T15, -T34  
**Trade Name:** TURBO THRUSH  
**Aircraft T.C./STC:** A4SW  
**Propeller Model:** HC-B3TN-3C, -3D  
**Propeller T.C.:** P15EA  
**Blade Model(s):** T10282+4  
 T10282N+4  
**Prop Diameter:** 106.5" TO 98.0" \*

**Modifier:**  
**Engine Model:** PT6A-34(AG), -36, 41(AG)  
**Power:** 750 HP @ 2200 RPM  
**Placard/Restr:**

**Notes:** Engine Ratings Note: PT6A-11AG (500hp), PT6A-15AG, -27 (680hp)

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** -8.0 +-0.5  
**Low Pitch Angle:** 18.0 +-0.1  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 87.0 +-1.0  
**Cwt Angle:** Positive

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type                      | Item Number  | Description                       | Quantity | Qty Per | Comments                 |
|--------------------------------|--------------|-----------------------------------|----------|---------|--------------------------|
| PROPELLER                      | B3N10452     | HC-B3TN-3D/T10282N+4              | 1        | A/C     |                          |
| PROPELLER                      | B3N10452KD   | HC-B3TN-3D/T10282N+4              | 1        | A/C     |                          |
| PROPELLER                      | B3N10452S    | HC-B3TN-3D/T10282N+4/D3434-12P    | 1        | A/C     | Prop, less packaging     |
| PROPELLER                      | B3N10452SAFM | HC-B3TN-3D/T10282N+4/D3434-12P    | 1        | A/C     | Prop, includes packaging |
| PROPELLER                      | B3N10452SKD  | HC-B3TN-3D/T10282N+4/D3434-12P    | 1        | A/C     |                          |
| BLADE                          | T10282+4     | BLADE                             | 3        | Prop    |                          |
| BLADE                          | T10282N+4    | PCP:BLADE UNIT, ALUM [1,1,1]      | 3        | Prop    |                          |
| SPINNER                        | D-3434-12    | SPINNER ASSEMBLY                  | 1        | Prop    |                          |
| SPINNER                        | D-3434-12P   | SPINNER ASSEMBLY                  | 1        | Prop    |                          |
| COUNTERWEIGHT SLUG A-3039      |              | SLUG, COUNTERWEIGHT               | 1        | Blade   |                          |
| COUNTERWEIGHT SLUG A-890-6     |              | PCP:SLUG, COUNTERWEIGHT           | 1        | Blade   | Primary                  |
| COUNTERWEIGHT SLUG A-890-8     |              | PCP:SLUG, COUNTERWEIGHT           | 1        | Blade   | Alternate                |
| COUNTERWEIGHT SLUG A-890-9     |              | PCP:SLUG, COUNTERWEIGHT           | 1        | Blade   | Alternate                |
| COUNTERWEIGHT SLUG B-3384-21H  |              | BOLT, 1/4-28, HEX HEAD            | 2        | Blade   |                          |
| COUNTERWEIGHT SLUG B-3851-0432 |              | WASHER                            | 2        | Blade   | Optional                 |
| COUNTERWEIGHT SLUG B-3851-0463 |              | WASHER                            | 2        | Blade   | Optional                 |
| MTG BOLT/STUD                  | B-3339       | BOLT, MOUNTING, 9/16-18, 12 POINT | 8        | Prop    |                          |
| MISC ACCES                     | A-3044       | BLOCK, BETA FEEDBACK- ASSEMBLY    | 1        | Prop    |                          |

# HARTZELL

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AYRES

IDS No.: 121      Rev.: 2      D      Date: 06/04/2013

**Model:** S-2R-T15  
**Trade Name:** TURBO THRUSH  
**Aircraft T.C./STC:** A4SW, A3SW  
**Propeller Model:** HC-B3TN-3C  
**Propeller T.C.:** P15EA  
**Blade Model(s):** T10282  
                                  T10282N  
**Prop Diameter:** 102.0" TO 92.5"

**Modifier:**  
**Engine Model:** PT6A-15AG  
**Power:** 680 HP @ 2200 RPM  
**Placard/Restr:**  
**Notes:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** -11.0 +-1.0  
**Low Pitch Angle:** 16.0 +-0.1  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 89.0 +-1.0  
**Cwt Angle:** Positive

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u>               | <u>Item Number</u> | <u>Description</u>                | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|--------------------------------|--------------------|-----------------------------------|-----------------|----------------|-----------------|
| BLADE                          | T10282             | BLADE                             | 3               | Prop           |                 |
| BLADE                          | T10282N            | PCP:BLADE UNIT, ALUMINUM          | 3               | Prop           |                 |
| COUNTERWEIGHT SLUG A-3039      |                    | SLUG, COUNTERWEIGHT               | 1               | Blade          |                 |
| COUNTERWEIGHT SLUG A-890-6     |                    | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          | Primary         |
| COUNTERWEIGHT SLUG A-890-8     |                    | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          | Alternate       |
| COUNTERWEIGHT SLUG A-890-9     |                    | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          | Alternate       |
| COUNTERWEIGHT SLUG B-3384-21H  |                    | BOLT, 1/4-28, HEX HEAD            | 2               | Blade          |                 |
| COUNTERWEIGHT SLUG B-3851-0432 |                    | WASHER                            | 2               | Blade          | Optional        |
| COUNTERWEIGHT SLUG B-3851-0463 |                    | WASHER                            | 2               | Blade          | Optional        |
| MTG BOLT/STUD                  | B-3339             | BOLT, MOUNTING, 9/16-18, 12 POINT | 8               | Prop           |                 |

# HARTZELL

## APPLICATION GUIDE

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AYRES

IDS No.: 122      Rev.: 2      D      Date: 06/04/2013

**Model:** S-2R-T34  
**Trade Name:** TURBO THRUSH  
**Aircraft T.C./STC:** A4SW, A3SW  
**Propeller Model:** HC-B3TN-3C  
**Propeller T.C.:** P15EA  
**Blade Model(s):** T10282  
    T10282N  
**Prop Diameter:** 102.0" TO 92.5"

**Modifier:**  
**Engine Model:** PT6A-34AG  
**Power:** 750 HP @ 2200 RPM  
**Placard/Restr:**  
**Notes:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** -11.0 +-1.0  
**Low Pitch Angle:** 16.0 +-0.1  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 89.0 +-1.0  
**Cwt Angle:** Positive

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u>               | <u>Item Number</u> | <u>Description</u>                | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|--------------------------------|--------------------|-----------------------------------|-----------------|----------------|-----------------|
| PROPELLER                      | B3N10340           | HC-B3TN-3C/T10282N                | 1               | A/C            |                 |
| BLADE                          | T10282             | BLADE                             | 3               | Prop           |                 |
| BLADE                          | T10282N            | PCP:BLADE UNIT, ALUMINUM          | 3               | Prop           |                 |
| SPINNER                        | D-3434-12          | SPINNER ASSEMBLY                  | 1               | Prop           |                 |
| COUNTERWEIGHT SLUG A-3039      |                    | SLUG, COUNTERWEIGHT               | 1               | Blade          |                 |
| COUNTERWEIGHT SLUG A-890-6     |                    | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          | Primary         |
| COUNTERWEIGHT SLUG A-890-8     |                    | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          | Alternate       |
| COUNTERWEIGHT SLUG A-890-9     |                    | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          | Alternate       |
| COUNTERWEIGHT SLUG B-3384-21H  |                    | BOLT, 1/4-28, HEX HEAD            | 2               | Blade          |                 |
| COUNTERWEIGHT SLUG B-3851-0432 |                    | WASHER                            | 2               | Blade          | Optional        |
| COUNTERWEIGHT SLUG B-3851-0463 |                    | WASHER                            | 2               | Blade          | Optional        |
| MTG BOLT/STUD                  | B-3339             | BOLT, MOUNTING, 9/16-18, 12 POINT | 8               | Prop           |                 |

# HARTZELL

## APPLICATION GUIDE 159

AYRES

IDS No.: 1180      Rev.: 3      IC      Date: 01/27/2020

**Model:** S-2R-1340, -G(5,6,10), -R3S, -R1820, -T(6,11,15,34,45,65)

**Modifier:** AG AIR SYSTEMS

**Trade Name:** TURBO THRUSH

**Engine Model:** TPE331-5, -10

**Aircraft T.C./STC:** STC-SA00172SE

**Power:** 900 HP @ 1591 RPM

**Propeller Model:** HC-B4TN-5PL

**Placard/Restr:** See 8110-3 dated 11/10/95

**Propeller T.C.:** P40EA

**Notes:** Engine Ratings Note: TPE331-5 (750hp) Blades are to have tip stripes on both sides; B4N10985( ) uses D-3434-7(P) spinner, B4N10986( ) uses C-3410(P) spinner.

**Blade Model(s):** LT10890N

**Prop Diameter:** 109.5"

### Prop Setup:

**Ref. Radius:** 42

**Startlock Angle:** -1.4 +0.1

**Reverse Angle:** -11.5 +-0.5

**Feather/High Angle:** 81.2 +-0.5

**Low Pitch Angle:** NA

**Cwt Angle:** 2.0 +-1.0

**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u>               | <u>Item Number</u> | <u>Description</u>                | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|--------------------------------|--------------------|-----------------------------------|-----------------|----------------|--------------------------|
| PROPELLER                      | B4N10985           | HC-B4TN-5PL/LT10890N              | 1               | A/C            |                          |
| PROPELLER                      | B4N10985KD         | HC-B4TN-5PL/LT10890N              | 1               | A/C            |                          |
| PROPELLER                      | B4N10985S          | HC-B4TN-5PL/LT10890N/D-3434-7P    | 1               | A/C            |                          |
| PROPELLER                      | B4N10985SKD        | HC-B4TN-5PL/LT10890N/D-3434-7P    | 1               | A/C            |                          |
| PROPELLER                      | B4N10986S          | HC-B4TN-5PL/LT10890N/C-3410-P     | 1               | A/C            |                          |
| BLADE                          | LT10890N           | BLADE UNIT, ALUMINUM [1,3,1]      | 4               | Prop           |                          |
| SPINNER                        | C-3410             | SPINNER ASSEMBLY                  | 1               | Prop           |                          |
| SPINNER                        | C-3410P            | IDS Item                          | 1               | Prop           |                          |
| SPINNER                        | D-3434-7           | SPINNER ASSEMBLY                  | 1               | Prop           |                          |
| SPINNER                        | D-3434-7P          | SPINNER ASSEMBLY                  | 1               | Prop           |                          |
| COUNTERWEIGHT SLUG A-2038-4    |                    | SCREW, 1/4-28, CAP                | 2               | Blade          |                          |
| COUNTERWEIGHT SLUG A-3039      |                    | SLUG, COUNTERWEIGHT               | 1               | Blade          |                          |
| COUNTERWEIGHT SLUG B-3386-14H  |                    | BOLT, 3/8-24, HEX HEAD            | 2               | Blade          |                          |
| COUNTERWEIGHT SLUG B-3663-2    |                    | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          |                          |
| COUNTERWEIGHT SLUG B-3834-0632 |                    | WASHER                            | 2               | Blade          |                          |
| MTG BOLT/STUD                  | B-3339             | BOLT, MOUNTING, 9/16-18, 12 POINT | 8               | Prop           |                          |
| OVERHAUL KIT                   | HC-B4TN-5PL-OH     | O/H KIT                           | 1               | Prop           | For aftermarket use only |

# HARTZELL

## APPLICATION GUIDE 159

AYRES

IDS No.: 1725 Rev.: 6 IC Date: 01/27/2020

**Model:** S-2R-1340, -G(5,6,10), -R3S, -R1820, -T(6,11,15,34,45,65)

**Modifier:** AG AIR SYSTEMS

**Trade Name:** TURBO THRUSH

**Engine Model:** TPE331-5, -10

**Aircraft T.C./STC:** STC-SA00172SE

**Power:** 900 HP @ 1591 RPM

**Propeller Model:** HC-B4TN-5NL

**Placard/Restr:** See 8110-3 dated 11/10/95

**Propeller T.C.:** P40EA

**Notes:** Engine Ratings Note: TPE331-5 (750hp)

**Blade Model(s):** LT10890N  
LT10890N\*1

**Prop Diameter:** 109.5"

**Prop Setup:**

**Ref. Radius:** 42

**Startlock Angle:** -1.4 +/-0.1

**Reverse Angle:** -11.5 +/-0.5

**Feather/High Angle:** 81.2 +/-0.5

**Low Pitch Angle:** NA

**Cwt Angle:** 2.0 +/-1.0

**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u>               | <u>Item Number</u> | <u>Description</u>                | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>                                     |
|--------------------------------|--------------------|-----------------------------------|-----------------|----------------|---|
| PROPELLER                      | B4N10982           | HC-B4TN-5NL/LT10890N              | 1               | A/C            |   |
| PROPELLER                      | B4N10982S          | HC-B4TN-5NL/LT10890N/D-3434-7P    | 1               | A/C            |   |
| PROPELLER                      | B4N10982SKD        | HC-B4TN-5NL/LT10890N/D-3434-7P    | 1               | A/C            |   |
| PROPELLER                      | B4N10987           | HC-B4TN-5NL/LT10890N[*1]          | 1               | A/C            | Blades do not have tip stripe on face side of blade |
| BLADE                          | LT10890N           | BLADE UNIT, ALUMINUM [1,3,1]      | 4               | Prop           |   |
| BLADE                          | LT10890N*1         | PCP:BLADE UNIT, ALUM [1,1,1]      | 4               | Prop           | Do not have tip stripe on face side                 |
| SPINNER                        | D-3434-7           | SPINNER ASSEMBLY                  | 1               | Prop           |   |
| SPINNER                        | D-3434-7P          | SPINNER ASSEMBLY                  | 1               | Prop           |   |
| COUNTERWEIGHT SLUG A-890-8     |                    | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          |   |
| COUNTERWEIGHT SLUG B-3384-9H   |                    | BOLT, 1/4-28, HEX HEAD            | 2               | Blade          |   |
| COUNTERWEIGHT SLUG B-3386-14H  |                    | BOLT, 3/8-24, HEX HEAD            | 2               | Blade          |   |
| COUNTERWEIGHT SLUG B-3663-1    |                    | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          |   |
| COUNTERWEIGHT SLUG B-3834-0632 |                    | WASHER                            | 2               | Blade          |   |
| COUNTERWEIGHT SLUG B-3851-0432 |                    | WASHER                            | 2               | Blade          | Optional  |
| COUNTERWEIGHT SLUG B-3851-0463 |                    | WASHER                            | 2               | Blade          | Optional  |
| MTG BOLT/STUD                  | B-3339             | BOLT, MOUNTING, 9/16-18, 12 POINT | 8               | Prop           |   |
| OVERHAUL KIT                   | HC-B4TN-5NL-OH     | O/H KIT                           | 1               | Prop           | For aftermarket use only                            |



# HARTZELL

## APPLICATION GUIDE

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AYRES

IDS No.: 130      Rev.: 4      IC      Date: 01/27/2020

**Model:** S-2R-G6  
**Trade Name:** TURBO THRUSH  
**Aircraft T.C./STC:** A4SW  
**Propeller Model:** HC-B3TN-5M  
**Propeller T.C.:** P15EA  
**Blade Model(s):** T10282N+4  
**Prop Diameter:** 106.5" TO 102.0"

**Modifier:**  
**Engine Model:** TPE331-6  
**Power:** 700 HP @ 2000 RPM  
**Placard/Restr:**

**Notes:** Prior to installing blades, install 3 ea B-3384-8H Bolts through the spinner mounting plate holes which are blocked by the blade clamps. (Otherwise the prop will need to be dis-assembled in order to mount the spinner.)

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** -6.0 +-0.5  
**Low Pitch Angle:**  
**Stud Protrusion**

**Startlock Angle:** 2.0 +-0.1  
**Feather/High Angle:** 89.0 +-0.5  
**Cwt Angle:** Positive

### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u>               | <u>Item Number</u> | <u>Description</u>                | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|--------------------------------|--------------------|-----------------------------------|-----------------|----------------|--------------------------|
| PROPELLER                      | B3N10910           | HC-B3TN-5M/T10282N+4              | 1               | A/C            |                          |
| PROPELLER                      | B3N10910S          | HC-B3TN-5M/T10282N+4/D-3434-1P    | 1               | A/C            |                          |
| BLADE                          | T10282N+4          | PCP:BLADE UNIT, ALUM [1,1,1]      | 3               | Prop           |                          |
| SPINNER                        | D-3434-1           | SPINNER ASSEMBLY                  | 1               | Prop           |                          |
| SPINNER                        | D-3434-1P          | SPINNER ASSEMBLY                  | 1               | Prop           |                          |
| SPIN MTG KIT                   | B-3384-8H          | BOLT, 1/4-28, HEX HEAD            | 9               | Prop           |                          |
| SPIN MTG KIT                   | B-3808-4           | NUT,HEX,SELF-LOCKING              | 9               | Prop           |                          |
| SPIN MTG KIT                   | B-3851-0432        | WASHER                            | 9               | Prop           |                          |
| COUNTERWEIGHT SLUG A-3039      |                    | SLUG, COUNTERWEIGHT               | 1               | Blade          |                          |
| COUNTERWEIGHT SLUG A-890-6     |                    | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          | Primary                  |
| COUNTERWEIGHT SLUG A-890-8     |                    | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          | Alternate                |
| COUNTERWEIGHT SLUG A-890-9     |                    | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          | Alternate                |
| COUNTERWEIGHT SLUG B-3384-21H  |                    | BOLT, 1/4-28, HEX HEAD            | 2               | Blade          |                          |
| COUNTERWEIGHT SLUG B-3851-0432 |                    | WASHER                            | 2               | Blade          | Optional                 |
| COUNTERWEIGHT SLUG B-3851-0463 |                    | WASHER                            | 2               | Blade          | Optional                 |
| MTG BOLT/STUD                  | B-3339             | BOLT, MOUNTING, 9/16-18, 12 POINT | 8               | Prop           |                          |
| OVERHAUL KIT                   | HC-B3TN-5M-OH      | O/H KIT                           | 1               | Prop           | For aftermarket use only |

# HARTZELL

## APPLICATION GUIDE

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AYRES

IDS No.: 125      Rev.: 2      IC      Date: 07/06/2015

**Model:** S-2RHG-T65  
**Trade Name:** TURBO THRUSH  
**Aircraft T.C./STC:** A4SW, A3SW  
**Propeller Model:** HC-B5MP-3C  
**Propeller T.C.:** P44GL  
**Blade Model(s):** M10876ANS  
M10876AS  
**Prop Diameter:** 111.2" TO 110.7"

**Modifier:**  
**Engine Model:** PT6A-60AG AND -65AG  
**Power:** 1230 HP @ 1700 RPM  
**Placard/Restr:** See vibration approval  
**Notes:** -60AG engine is approved with this propeller for a/c s/n T65HG-013DC and up; Blades are shot peened from 7" thru 30" station

**Prop Setup:**

**Ref. Radius:** 42  
**Reverse Angle:** -11.0 +-0.5  
**Low Pitch Angle:** 11.5 +-0.1  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 79.0 +-0.5  
**Cwt Angle:** 2.5 +-1.0

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u>   | <u>Item Number</u> | <u>Description</u>                | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|--------------------|--------------------|-----------------------------------|-----------------|----------------|--------------------------|
| PROPELLER          | B5P10120           | HC-B5MP-3C/M10876ANS              | 0               |                |                          |
| PROPELLER          | B5P10120S          | HC-B5MP-3C/M10876ANS/D-3434-8     | 0               |                |                          |
| PROPELLER          | B5P10120SKD        | HC-B5MP-3C/M10876ANS/D-3434-8     | 0               |                |                          |
| PROPELLER          | B5P10121KD         | HC-B5MP-3C/M10876ANS/BULK         | 0               |                |                          |
| BLADE              | M10876ANS          | PCP:BLADE UNIT, ALUMINUM          | 5               | Prop           |                          |
| BLADE              | M10876AS           | BLADE UNIT, ALUMINUM              | 5               | Prop           |                          |
| SPINNER            | D-3434-8           | SPINNER ASSEMBLY                  | 1               | Prop           |                          |
| SPINNER            | D-3434-8P          | SPINNER ASSEMBLY                  | 1               | Prop           |                          |
| SPIN MTG KIT       | B-3384-4           | BOLT, 1/4-28, HEX HEAD            | 10              | Prop           |                          |
| SPIN MTG KIT       | B-3808-4           | NUT,HEX,SELF-LOCKING              | 10              | Prop           |                          |
| SPIN MTG KIT       | B-3851-0463        | WASHER                            | 10              | Prop           |                          |
| COUNTERWEIGHT SLUG | B-3343             | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          |                          |
| COUNTERWEIGHT SLUG | B-3386-14H         | BOLT,3/8-24,HEX HEAD              | 2               | Blade          |                          |
| COUNTERWEIGHT SLUG | B-3834-0632        | WASHER                            | 2               | Blade          |                          |
| MTG BOLT/STUD      | B-3339             | BOLT, MOUNTING, 9/16-18, 12 POINT | 8               | Prop           |                          |
| OVERHAUL KIT       | HC-B5MP-3C-OH      | O/H KIT                           | 1               | Prop           | For aftermarket use only |

# HARTZELL

## APPLICATION GUIDE

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AYRES

IDS No.: 124 Rev.: 4 IC Date: 11/15/2016

**Model:** S-2R-T65, S-2R-T45 (see note)  
**Trade Name:** TURBO THRUSH  
**Aircraft T.C./STC:** A4SW  
**Propeller Model:** HC-B5MP-3C  
**Propeller T.C.:** P44GL

**Modifier:**  
**Engine Model:** PT6A-65AG, see note for optional engine

**Power:** 1230 HP @ 1700 RPM

**Placard/Restr:** See 8110-3 dated July 5, 1995 for restrictions.

**Blade Model(s):** M10876ANS  
M10876AS  
**Prop Diameter:** 111.2" TO 110.7"

**Notes:** Blades are shot peened from 7" thru 30" station. S-2R-T45 uses engine PT6A-45, -45A, -45B, -45R all rated at 1173 HP

**Prop Setup:**

**Ref. Radius:** 42  
**Reverse Angle:** -11.0 +-0.5  
**Low Pitch Angle:** 11.5 +-0.1

**Startlock Angle:** NA  
**Feather/High Angle:** 79.0 +-0.5

**Cwt Angle:** 2.5 +-1.0

**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type          | Item Number   | Description                       | Quantity | Qty Per | Comments                 |
|--------------------|---------------|-----------------------------------|----------|---------|--------------------------|
| PROPELLER          | B5P10120S     | HC-B5MP-3C/M10876ANS/D-3434-8     | 1        | A/C     |                          |
| PROPELLER          | B5P10120SKD   | HC-B5MP-3C/M10876ANS/D-3434-8     | 1        | A/C     |                          |
| PROPELLER          | B5P10121KD    | HC-B5MP-3C/M10876ANS/BULK         | 1        | A/C     |                          |
| PROPELLER          | B5P10130S     | HC-B5MP-3C/M10876ANS/D-3434-8P    | 1        | A/C     |                          |
| PROPELLER          | B5P10130SKD   | HC-B5MP-3C/M10876ANS/D-3434-8P    | 1        | A/C     |                          |
| BLADE              | M10876ANS     | PCP:BLADE UNIT, ALUMINUM          | 5        | Prop    |                          |
| BLADE              | M10876AS      | BLADE UNIT, ALUMINUM              | 5        | Prop    |                          |
| SPINNER            | D-3434-8      | SPINNER ASSEMBLY                  | 1        | Prop    |                          |
| SPINNER            | D-3434-8P     | SPINNER ASSEMBLY                  | 1        | Prop    |                          |
| SPIN MTG KIT       | B-3384-4      | BOLT, 1/4-28, HEX HEAD            | 10       | Prop    |                          |
| SPIN MTG KIT       | B-3808-4      | NUT, HEX, SELF-LOCKING            | 10       | Prop    |                          |
| SPIN MTG KIT       | B-3851-0463   | WASHER                            | 10       | Prop    |                          |
| COUNTERWEIGHT SLUG | B-3343        | PCP:SLUG, COUNTERWEIGHT           | 1        | Blade   |                          |
| COUNTERWEIGHT SLUG | B-3386-14H    | BOLT, 3/8-24, HEX HEAD            | 2        | Blade   |                          |
| COUNTERWEIGHT SLUG | B-3834-0632   | WASHER                            | 2        | Blade   |                          |
| MTG BOLT/STUD      | B-3339        | BOLT, MOUNTING, 9/16-18, 12 POINT | 8        | Prop    |                          |
| MISC ACCES         | A-3044        | BLOCK, BETA FEEDBACK- ASSEMBLY    | 2        | Prop    |                          |
| OVERHAUL KIT       | HC-B5MP-3C-OH | O/H KIT                           | 1        | Prop    | For aftermarket use only |

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## APPLICATION GUIDE 159

**BAE (JETSTREAM)**

**IDS No.:** 572      **Rev.:** 2      **D**      **Date:** 06/04/2013

**Model:** 137  
**Trade Name:** JETSTREAM  
**Aircraft T.C./STC:** STC SA2293SW  
**Propeller Model:** HC-B3TN-3D  
**Propeller T.C.:** P15EA  
**Blade Model(s):** T10282B-6  
                                  T10282NB-6  
**Prop Diameter:** 96.0"

**Modifier:** JETSTREAM, INC.  
**Engine Model:** PT6A-34  
**Power:** 750 HP @ 2200 RPM  
**Placard/Restr:**  
**Notes:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** -14.0 +-0.5  
**Low Pitch Angle:** 16.0 +-0.2  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 89.0 +-1.0  
**Cwt Angle:** Positive

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u>               | <u>Item Number</u> | <u>Description</u>                | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|--------------------------------|--------------------|-----------------------------------|-----------------|----------------|--------------------------|
| BLADE                          | T10282B-6          | IDS*ITEM, BLADE, 4E1188-5 BOOT    | 3               | Prop           |                          |
| BLADE                          | T10282NB-6         | IDS ITEM, BLADE, 4E1188-5 BOOT    | 3               | Prop           |                          |
| COUNTERWEIGHT SLUG A-3039      |                    | SLUG, COUNTERWEIGHT               | 1               | Blade          |                          |
| COUNTERWEIGHT SLUG A-890-6     |                    | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          | Primary                  |
| COUNTERWEIGHT SLUG A-890-8     |                    | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          | Alternate                |
| COUNTERWEIGHT SLUG A-890-9     |                    | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          | Alternate                |
| COUNTERWEIGHT SLUG B-3384-21H  |                    | BOLT, 1/4-28, HEX HEAD            | 2               | Blade          |                          |
| COUNTERWEIGHT SLUG B-3851-0432 |                    | WASHER                            | 2               | Blade          | Optional                 |
| COUNTERWEIGHT SLUG B-3851-0463 |                    | WASHER                            | 2               | Blade          | Optional                 |
| DE-ICER                        | 4H1188-5           | DE-ICE BOOT                       | 1               | Blade          | Supersedes 7931-4E1188-5 |
| DE-ICE KIT PR                  | 7931-65-095        | IDS ITEM - DE-ICE KIT             | 1               | Prop           |                          |
| MTG BOLT/STUD                  | B-3339             | BOLT, MOUNTING, 9/16-18, 12 POINT | 8               | Prop           |                          |

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BAE (JETSTREAM)

IDS No.: 574 Rev.: 2 IC Date: 01/27/2020

Model: 137  
 Trade Name: JETSTREAM  
 Aircraft T.C./STC: STC SA3425WE  
 Propeller Model: HC-B3TN-5K  
 Propeller T.C.: P15EA  
 Blade Model(s): T10178N-4R  
 T10178NB-4R  
 Prop Diameter: 97.5"

Modifier: CAMERON & STAHL  
 Engine Model: TPE331-3U-303V  
 Power: 840 HP @ 2000 RPM  
 Placard/Restr:  
 Notes:

**Prop Setup:**

Ref. Radius: 30  
 Reverse Angle: -6.0 +-0.25  
 Low Pitch Angle:  
 Stud Protrusion

Startlock Angle: 2.0 +-0.25  
 Feather/High Angle: 87.5 +-0.5  
 Cwt Angle: Positive

**Non-HPI Items:**

Non-HPI Spinner:

Non-HPI Governor:

**Hartzell Approved Items:**

| Item Type                      | Item Number | Description                       | Quantity | Qty Per | Comments |
|--------------------------------|-------------|-----------------------------------|----------|---------|----------|
| BLADE                          | T10178N-4R  | IDS ITEM, BLADE                   | 3        | Prop    |          |
| BLADE                          | T10178NB-4R | IDS ITEM, BLADE                   | 3        | Prop    |          |
| SPINNER                        | C-3043-3P   | SPINNER ASSEMBLY                  | 1        | Prop    |          |
| COUNTERWEIGHT SLUG A-2038-4    |             | SCREW, 1/4-28, CAP                | 2        | Blade   |          |
| COUNTERWEIGHT SLUG A-3039      |             | SLUG, COUNTERWEIGHT               | 1        | Blade   |          |
| COUNTERWEIGHT SLUG B-3386-14H  |             | BOLT, 3/8-24, HEX HEAD            | 2        | Blade   |          |
| COUNTERWEIGHT SLUG B-3663-1    |             | PCP:SLUG, COUNTERWEIGHT           | 1        | Blade   |          |
| COUNTERWEIGHT SLUG B-3834-0632 |             | WASHER                            | 2        | Blade   |          |
| MTG BOLT/STUD                  | B-3339      | BOLT, MOUNTING, 9/16-18, 12 POINT | 8        | Prop    |          |

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### BAE (JETSTREAM)

**Model:** 137  
**Trade Name:** JETSTREAM  
**Aircraft T.C./STC:** STC SA3425WE  
**Propeller Model:** HC-B3TN-5E  
**Propeller T.C.:** P15EA  
**Blade Model(s):** T10178NBR  
**Prop Diameter:** 101.5"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** -6.0 +-0.25  
**Low Pitch Angle:**  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

#### Hartzell Approved Items:

| Item Type                      | Item Number | Description                       | Quantity | Qty Per | Comments  |
|--------------------------------|-------------|-----------------------------------|----------|---------|-----------|
| BLADE                          | T10178NBR   | IDS ITEM, BLADE                   | 3        | Prop    |           |
| SPINNER                        | C-3043-3P   | SPINNER ASSEMBLY                  | 1        | Prop    |           |
| COUNTERWEIGHT SLUG A-3039      |             | SLUG, COUNTERWEIGHT               | 1        | Blade   |           |
| COUNTERWEIGHT SLUG A-890-6     |             | PCP:SLUG, COUNTERWEIGHT           | 1        | Blade   | Primary   |
| COUNTERWEIGHT SLUG A-890-8     |             | PCP:SLUG, COUNTERWEIGHT           | 1        | Blade   | Alternate |
| COUNTERWEIGHT SLUG A-890-9     |             | PCP:SLUG, COUNTERWEIGHT           | 1        | Blade   | Alternate |
| COUNTERWEIGHT SLUG B-3384-21H  |             | BOLT, 1/4-28, HEX HEAD            | 2        | Blade   |           |
| COUNTERWEIGHT SLUG B-3851-0432 |             | WASHER                            | 2        | Blade   | Optional  |
| COUNTERWEIGHT SLUG B-3851-0463 |             | WASHER                            | 2        | Blade   | Optional  |
| MTG BOLT/STUD                  | B-3339      | BOLT, MOUNTING, 9/16-18, 12 POINT | 8        | Prop    |           |

**IDS No.:** 573      **Rev.:** 3      **IC Date:** 01/27/2020

**Modifier:** CAMERON & STAHL  
**Engine Model:** TPE331-3U-303V  
**Power:** 840 HP @ 2000 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** 2.0 +-0.25  
**Feather/High Angle:** 87.5 +-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:**

### BAE (SCOTTISH AVIATION)

**Model:** B.125  
**Trade Name:** BULLDOG  
**Aircraft T.C./STC:** Unknown  
**Propeller Model:** HC-C2YR-4BF  
**Propeller T.C.:** P-920  
**Blade Model(s):** FC7666A-2  
**Prop Diameter:** 74"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 14.0 +-0.1  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

#### Hartzell Approved Items:

| Item Type     | Item Number    | Description                   | Quantity | Qty Per | Comments                 |
|---------------|----------------|-------------------------------|----------|---------|--------------------------|
| PROPELLER     | C2R00190       | HC-C2YR-4BF/FC7666A-2         | 1        | A/C     |                          |
| BLADE         | FC7666A-2      | PCP:BLADE UNIT, B-3202H-6 CWT | 2        | Prop    |                          |
| SPINNER       | 835-41         | SPINNER ASSEMBLY              | 1        | Prop    |                          |
| SPINNER       | C-2513-5       | SPINNER ASSEMBLY              | 1        | Prop    |                          |
| COUNTERWEIGHT | B-3202H-6      | PCP:COUNTERWEIGHT             | 1        | Blade   | Blade Component          |
| MTG BOLT/STUD | A-2067         | STUD, MOUNTING, 1/2-20        | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-C2YR-4BF-OH | O/H KIT                       | 1        | Prop    | For aftermarket use only |

**IDS No.:** 935      **Rev.:** 1      **IC Date:** 07/07/2015

**Modifier:**  
**Engine Model:** IO-360-A1B6  
**Power:** 200 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 28.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

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BAE (SCOTTISH AVIATION)

IDS No.: 2327 Rev.: - DM Date: 11/23/2003

**Model:** B.206 SERIES 2

**Trade Name:** BEAGLE

**Aircraft T.C./STC:** A11EU

**Propeller Model:** HC-A3VF-2D

**Propeller T.C.:** P6EA

**Blade Model(s):** V8433

V8833N

**Prop Diameter:** 88.375" TO 86.375"

### Prop Setup:

**Ref. Radius:** 30

**Reverse Angle:** NA

**Low Pitch Angle:** 14.9 +-0.1

**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**Modifier:**

**Engine Model:** GTSIO-520-C

**Power:** 340 HP @ 2400 RPM

**Placard/Restr:**

**Notes:**

**Startlock Angle:** 18.5 +-1.5

**Feather/High Angle:** 85.0 +-1.0

**Cwt Angle:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u>             | <u>Item Number</u> | <u>Description</u>            | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------------------|--------------------|-------------------------------|-----------------|----------------|-----------------|
| BLADE                        | V8433              | BLADE                         | 3               | Prop           |                 |
| BLADE                        | V8833N             | BLADE UNIT                    | 3               | Prop           |                 |
| SPINNER                      | 835-29             | SPINNER ASSEMBLY              | 1               | Prop           |                 |
| SPINNER                      | 835-31P            | SPINNER ASSEMBLY              | 1               | Prop           | w/ Anti-icing   |
| COUNTERWEIGHT SLUG A-890-9   |                    | PCP:SLUG, COUNTERWEIGHT       | 1               | Blade          |                 |
| COUNTERWEIGHT SLUG B-3384-3H |                    | BOLT, 1/4-28, HEX HEAD        | 2               | Blade          |                 |
| DE-ICER                      | C-2131-6           | BOOT, ANTI-ICING              | 1               | Blade          | Blade Component |
| DE-ICE KIT PR                | A-2588             | ANTI-ICING - KIT              | 1               | Prop           |                 |
| MTG BOLT/STUD                | A-1328-1           | BOLT,MOUNTING,1/2-20,12 POINT | 6               | Prop           |                 |



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**BAE (SCOTTISH AVIATION)**

**Model:** B.206 SERIES 2  
**Trade Name:** BEAGLE  
**Aircraft T.C./STC:** A11EU  
**Propeller Model:** HC-A3MVF-2D  
**Propeller T.C.:** P6EA  
**Blade Model(s):** MV8833N  
 MV8833NB  
**Prop Diameter:** 88.375" TO 86.375"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 14.9 +-0.1  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**IDS No.:** 936      **Rev.:** 2      **IC Date:** 07/07/2015

**Modifier:**  
**Engine Model:** GTSIO-520-C  
**Power:** 340 HP @ 2400 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** 18.5 +-1.5  
**Feather/High Angle:** 85.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type                    | Item Number    | Description                      | Quantity | Qty Per | Comments                 |
|------------------------------|----------------|----------------------------------|----------|---------|--------------------------|
| PROPELLER                    | A3F10084       | HC-A3MVF-2D/MV8833N              | 2        | A/C     |                          |
| BLADE                        | MV8833N        | PCP:BLADE UNIT, ALUM [1,1,1]     | 3        | Prop    |                          |
| BLADE                        | MV8833NB       | IDS ITEM, BLADE, C-2131-6 BOOT   | 3        | Prop    |                          |
| SPINNER                      | 835-29         | SPINNER ASSEMBLY                 | 1        | Prop    |                          |
| SPINNER                      | 835-31P        | SPINNER ASSEMBLY                 | 1        | Prop    | w/ Anti-icing            |
| COUNTERWEIGHT SLUG A-890-9   |                | PCP:SLUG, COUNTERWEIGHT          | 1        | Blade   |                          |
| COUNTERWEIGHT SLUG B-3384-3H |                | BOLT, 1/4-28, HEX HEAD           | 2        | Blade   |                          |
| DE-ICER                      | C-2131-6       | BOOT, ANTI-ICING                 | 1        | Blade   | Blade Component          |
| DE-ICE KIT PR                | A-2588         | ANTI-ICING - KIT                 | 1        | Prop    |                          |
| MTG BOLT/STUD                | A-1328-1       | BOLT, MOUNTING, 1/2-20, 12 POINT | 6        | Prop    |                          |
| OVERHAUL KIT                 | HC-A3MVF-2D-OH | O/H KIT                          | 1        | Prop    | For aftermarket use only |

**BAE (SCOTTISH AVIATION)**

**Model:** B.206 SERIES 2  
**Trade Name:** BEAGLE  
**Aircraft T.C./STC:** Unknown  
**Propeller Model:** HC-A3VF-2D  
**Propeller T.C.:** P6EA  
**Blade Model(s):** V8833N-2Q  
**Prop Diameter:** 86.375"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 14.9 +-0.1  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**IDS No.:** 2298      **Rev.:** -      **DM Date:** 11/20/2003

**Modifier:**  
**Engine Model:** GTSIO-520-C  
**Power:** 340 HP @ 2400 RPM  
**Placard/Restr:**  
**Notes:** Field Approval

**Startlock Angle:** 18.5 +-1.5  
**Feather/High Angle:** 85.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type                    | Item Number | Description                      | Quantity | Qty Per | Comments |
|------------------------------|-------------|----------------------------------|----------|---------|----------|
| BLADE                        | V8833N-2Q   | BLADE UNIT                       | 3        | Prop    |          |
| SPINNER                      | 835-31P     | SPINNER ASSEMBLY                 | 1        | Prop    |          |
| COUNTERWEIGHT SLUG A-890-9   |             | PCP:SLUG, COUNTERWEIGHT          | 1        | Blade   |          |
| COUNTERWEIGHT SLUG B-3384-3H |             | BOLT, 1/4-28, HEX HEAD           | 2        | Blade   |          |
| MTG BOLT/STUD                | A-1328-1    | BOLT, MOUNTING, 1/2-20, 12 POINT | 6        | Prop    |          |

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**BAE (SCOTTISH AVIATION)**

**Model:** B.206 SERIES 2  
**Trade Name:** BEAGLE  
**Aircraft T.C./STC:** Unknown  
**Propeller Model:** HC-A3MVF-2D  
**Propeller T.C.:** P6EA  
**Blade Model(s):** MV8833N-2Q  
**Prop Diameter:** 86.375"

**IDS No.:** 1522      **Rev.:** 1      **IC Date:** 07/07/2015

**Modifier:**  
**Engine Model:** GTSIO-520-C  
**Power:** 340 HP @ 2400 RPM  
**Placard/Restr:**  
**Notes:** Field Approval

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 14.9 +-0.1  
**Stud Protrusion**

**Startlock Angle:** 18.5 +-1.5  
**Feather/High Angle:** 85.0 +-1.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u>             | <u>Item Number</u> | <u>Description</u>            | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------------------|--------------------|-------------------------------|-----------------|----------------|--------------------------|
| PROPELLER                    | A3F10086           | HC-A3MVF-2D/MV8833N-2Q        | 2               | A/C            |                          |
| BLADE                        | MV8833N-2Q         | PCP:BLADE UNIT, ALUMINUM      | 3               | Prop           |                          |
| SPINNER                      | 835-31P            | SPINNER ASSEMBLY              | 1               | Prop           |                          |
| COUNTERWEIGHT SLUG A-890-9   |                    | PCP:SLUG, COUNTERWEIGHT       | 1               | Blade          |                          |
| COUNTERWEIGHT SLUG B-3384-3H |                    | BOLT, 1/4-28, HEX HEAD        | 2               | Blade          |                          |
| MTG BOLT/STUD                | A-1328-1           | BOLT,MOUNTING,1/2-20,12 POINT | 6               | Prop           |                          |
| OVERHAUL KIT                 | HC-A3MVF-2D-OH     | O/H KIT                       | 1               | Prop           | For aftermarket use only |

**BAUGER**

**Model:** SAIL PLANE  
**Trade Name:**  
**Aircraft T.C./STC:** Unknown  
**Propeller Model:** HC-82XL-2, HC-A2XL-2  
**Propeller T.C.:** P24EA  
**Blade Model(s):** 7636-4  
**Prop Diameter:** 72.2"

**IDS No.:** 2081      **Rev.:** -      **DM Date:** 11/20/2003

**Modifier:**  
**Engine Model:** O-290-D  
**Power:** 125 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 11.5 +-0.1  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 79.0 +-1.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u> | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|--------------------|-----------------|----------------|-----------------|
| BLADE            | 7636-4             | BLADE              | 2               | Prop           |                 |

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### BAUGER

**Model:** SAIL PLANE  
**Trade Name:**  
**Aircraft T.C./STC:** Unknown  
**Propeller Model:** HC-82VL-2, HC-A2VL-2  
**Propeller T.C.:** P24EA  
**Blade Model(s):** V7636N-4  
**Prop Diameter:** 72.2"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 11.5 +-0.1  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

#### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u> | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|--------------------|-----------------|----------------|-----------------|
| BLADE            | V7636N-4           | BLADE              | 2               | Prop           |                 |

**IDS No.:** 2082      **Rev.:** -      **DM Date:** 11/20/2003

**Modifier:**  
**Engine Model:** O-290-D  
**Power:** 125 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 79.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

### BAUGER

**Model:** SAIL PLANE  
**Trade Name:**  
**Aircraft T.C./STC:** Unknown  
**Propeller Model:** HC-A2MVL-2  
**Propeller T.C.:** P24EA  
**Blade Model(s):** MV7636N-4  
**Prop Diameter:** 72.2"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 11.5 +-0.1  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

#### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>       | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|--------------------------|-----------------|----------------|-----------------|
| BLADE            | MV7636N-4          | PCP:BLADE UNIT, ALUMINUM | 2               | Prop           |                 |

**IDS No.:** 134      **Rev.:** -      **DM Date:** 05/12/1998

**Modifier:**  
**Engine Model:** O-290-D  
**Power:** 125 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 79.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

# HARTZELL

## APPLICATION GUIDE

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BEDE

**Model:** BD-4  
**Trade Name:**  
**Aircraft T.C./STC:** EXPERIMENTAL  
**Propeller Model:** HC-C2YR-1BF  
**Propeller T.C.:** P-920

**Blade Model(s):** F7666A  
F7666A-4

**Prop Diameter:** 76-72"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.5 +/-0.2  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

### Hartzell Approved Items:

**IDS No.:** 2726      **Rev.:** 1      **IC Date:** 07/07/2015

**Modifier:**

**Engine Model:** O-360-A1A

**Power:** 180 HP @ 2700 RPM

**Placard/Restr:** Avoid continuous operation between 2000 and 2250 RPM.

**Notes:**

**Startlock Angle:** NA

**Feather/High Angle:** 30.0 +/-1.0

**Cwt Angle:**

**Non-HPI Governor:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>           | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|------------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | C2R00682           | HC-C2YR-1BF/F7666A           | 1               | A/C            |                          |
| PROPELLER        | C2R00691           | HC-C2YR-1BF/F7666A-4         | 1               | A/C            |                          |
| BLADE            | F7666A             | PCP:BLADE UNIT, ALUM [1,1,1] | 2               | Prop           |                          |
| BLADE            | F7666A-4           | PCP:BLADE UNIT, ALUMINUM     | 2               | Prop           |                          |
| SPINNER          | 835-33             | SPINNER ASSEMBLY             | 1               | Prop           |                          |
| SPINNER          | 835-33P            | SPINNER ASSEMBLY             | 1               | Prop           |                          |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20       | 6               | Prop           |                          |
| OVERHAUL KIT     | HC-C2YR-1BF-OH     | O/H KIT                      | 1               | Prop           | For aftermarket use only |

# HARTZELL

## APPLICATION GUIDE

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Beech

IDS No.: 3715 Rev.: 3 IC Date: 10/25/2021

Model: ( )200( )  
 Trade Name: King Air  
 Aircraft T.C./STC: SA2698NM-S  
 Propeller Model: 5D3-NK366A1  
 Propeller T.C.: P00015CH

Modifier: Raisbeck  
 Engine Model: PT6A-41, -42, -52, -61  
 Power: 850 HP @ 2000 RPM  
 Placard/Restr: δStabilized ground operation is prohibited between 700 and 1150 RPM. The propeller may be operated when feathered at or below 700 RPM."

Blade Model(s): 91D15B  
 Prop Diameter: 96"

Notes:

### Prop Setup:

Ref. Radius: 30"  
 Reverse Angle: -8.0 +/- 0.5  
 Low Pitch Angle: 18.4 +/- 0.1  
 Stud Protrusion

Startlock Angle:  
 Feather/High Angle: 85.7 +/- 0.5  
 Cwt Angle:

### Non-HPI Items:

Non-HPI Spinner:

Non-HPI Governor:

### Hartzell Approved Items:

| Item Type                      | Item Number | Description                            | Quantity | Qty Per | Comments                          |
|--------------------------------|-------------|--|----------|---------|-----------------------------------|
| PROPELLER                      | 5DN01200S   | 5D3-NK366A1/91D15B/SPIN                | 2        | A/C     |                                   |
| PROPELLER                      | 5DN01200SKD | 5D3-NK366A1/91D15B/SPIN                | 2        | A/C     |                                   |
| BLADE                          | 91D15B      | PCP:BLADE UNIT, COMPOSITE              | 5        | Prop    |                                   |
| SPINNER                        | 107503      | SPINNER ASSEMBLY                       | 1        | Prop    |                                   |
| SPINNER                        | 107503P     | SPINNER ASSEMBLY                       | 1        | Prop    |                                   |
| SP MT KIT DE-ICE               | A-2070-7    | SCREW, 1/4-28, BUTTON HEAD             | 10       | Prop    |                                   |
| COUNTERWEIGHT                  | 106074-2    | PCP: COUNTERWEIGHT                     | 1        | Blade   |                                   |
| COUNTERWEIGHT SLUG A-1744      |             | BOLT,3/8-24,HEX HEAD                   | 1        | Blade   |                                   |
| COUNTERWEIGHT SLUG A-2043-1    |             | NUT,3/8-24,HEX,SELF-LOCKING            | 1        | Blade   |                                   |
| COUNTERWEIGHT SLUG B-3834-0632 |             | WASHER                                 | 2        | Blade   |                                   |
| DE-ICER                        | 107551      | DE-ICE BOOT                            | 1        | Blade   |                                   |
| DE-ICE KIT PR                  | 107556      | DE-ICE KIT (ONE PROP)                  | 1        | Prop    |                                   |
| DE-ICE KIT A/F                 | 107949      | AIRFRAME DE-ICE KIT                    | 1        | A/C     |                                   |
| MTG BOLT/STUD                  | 107585      | NUT,MOUNTING,9/16-18,12 POINT          | 8        | Prop    | Superseded by 107957 Mounting Nut |
| MTG BOLT/STUD                  | 107957      | NUT, MOUNTING, CRES, 9/16-18, 12-POINT | 8        | Prop    | Supersedes 107585 Mtg. Nut        |

# HARTZELL

## APPLICATION GUIDE

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**BEECH**

**IDS No.:** 3413      **Rev.:** 1      **IC Date:** 05/10/2017

**Model:** 200, 200C, B200, B200C  
**Trade Name:** SUPER KING AIR (s/n BT35+ & BN5+)  
**Aircraft T.C./STC:** SA02715CH-D  
**Propeller Model:** HC-E4N-3G  
**Propeller T.C.:** P10NE

**Modifier:** Standard Aero  
**Engine Model:** PT6A-52

**Power:** 850 HP @ 2000 RPM  
**Placard/Restr:** Stabilized ground operation is prohibited between 500 and 1180 RPM. The propeller may be operated when feathered at or below 500 RPM.

**Blade Model(s):** D9390S-1R  
 D9390SK-1R  
**Prop Diameter:** 93.0" TO 92.0"

**Notes:** At the low pitch setting, check blade to blade angles at the 36 and 42" radial locations. All blades must be within 0.3 degree of one another. Low pitch angle is approximate. Refer to Raytheon maintenance instructions for on-wing adjustment procedures; De-Ice kits 102282-1 & 67-890-1 are identical. Per Beech request to keep prop item P/N same for B200GT as the B200 series on this IDS, the 102282-1 de-ice kit will be used for all 200 series.

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** -11.0 +-0.5  
**Low Pitch Angle:** 18.2 +-0.1  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 85.8 +-0.5  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>                | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>   |
|------------------|--------------------|-----------------------------------|-----------------|----------------|---|
| PROPELLER        | E4N00080           | HC-E4N-3G/D9390SK-1R              | 2               | A/C            | Prop less spinner with 102282-1 De-ice kit  |
| PROPELLER        | E4N00080KD         | HC-E4N-3G/D9390SK-1R              | 2               | A/C            | Prop less spinner, dis-assembled for shipment with 102282-1 De-ice kit                    |
| PROPELLER        | E4N00080S          | HC-E4N-3G/D9390SK-1R/D-630-2P     | 2               | A/C            | Prop with D-630-2P Polished spinner & 102282-1 De-ice kit                                 |
| PROPELLER        | E4N00080SKD        | HC-E4N-3G/D9390SK-1R/D-630-2P     | 2               | A/C            | Prop with D-630-2P Polished Spinner, 102282-1 De-ice kit, prop dis-assembled for shipment |
| PROPELLER        | E4N00081S          | HC-E4N-3G/D9390SK-1R/D-630-2      | 2               | A/C            | Prop with D-630-2 Unpolished spinner & 102282-1 De-ice kit                                |
| PROPELLER        | E4N00082           | HC-E4N-3G/D9390SK-1R/BULK/DEI     | 2               | A/C            | Prop with Polished bulkhead & 102282-1 De-ice kit but less spinner dome                   |
| PROPELLER        | E4N00082KD         | HC-E4N-3G/D9390SK-1R/BULK/DEI     | 2               | A/C            | Prop with spinner bulkhead but less spinner dome, prop dis-assembled for shipment         |
| BLADE            | D9390S-1R          | PCP:BLADE UNIT, ALUMINUM          | 4               | Prop           |   |
| BLADE            | D9390SK-1R         | PCP:BLADE UNIT, ALUM, 103880      | 4               | Prop           | Included with every prop on this IDS  |
| SPINNER          | D-630-2            | SPINNER ASSEMBLY                  | 1               | Prop           | Non-polished spinner (suitable surface for paint)   |
| SPINNER          | D-630-2P           | SPINNER ASSEMBLY                  | 1               | Prop           | Polished spinner  |
| SPIN MTG KIT     | A-2070-7           | SCREW, 1/4-28, BUTTON HEAD        | 8               | Prop           | Included with every prop on this IDS (in de-ice kit)                                      |
| COUNTERWEIGHT    | C-472-4            | PCP:COUNTERWEIGHT                 | 1               | Blade          | Blade component, Included with every prop on this IDS                                     |
| DE-ICER          | 103880             | DE-ICE BOOT                       | 1               | Blade          | Supersedes 4H2271-10 & -12  |
| DE-ICE KIT PR    | 102282-1           | DE-ICE KIT (ONE PROP)             | 1               | Prop           | Superseded by 106298  |
| DE-ICE KIT PR    | 106298             | DE-ICE KIT (ONE PROP)             | 1               | Prop           | Supersedes 102282-1   |
| MTG BOLT/STUD    | B-3339-1           | BOLT, MOUNTING, 9/16-18, 12 POINT | 8               | Prop           | Included with every prop on this IDS  |
| OVERHAUL KIT     | HC-E4N-3G-OH       | O/H KIT                           | 1               | Prop           | For aftermarket use only  |

**BEECH**

**Model:** A36, A36TC  
**Trade Name:** BONANZA  
**Aircraft T.C./STC:** SA3523NM  
**Propeller Model:** HC-B3TF-7A  
**Propeller T.C.:** P15EA  
**Blade Model(s):** T9212NK-2  
**Prop Diameter:** 90"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** -10.0 +-0.5  
**Low Pitch Angle:**  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**IDS No.:** 2632      **Rev.:** 4      **IC Date:** 04/01/2020

**Modifier:** Soloy Aviation Solutions  
**Engine Model:** 250-B17C  
**Power:** 420 HP @ 2030 RPM  
**Placard/Restr:**

**Notes:** \*67-510-1 de-ice kit is eligible for props with 250-B17C engines only.

**Startlock Angle:**  
**Feather/High Angle:** 86.2 +-0.5  
**Cwt Angle:** 1.5 +-1.0

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u>               | <u>Item Number</u> | <u>Description</u>            | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|--------------------------------|--------------------|-------------------------------|-----------------|----------------|--------------------------|
| PROPELLER                      | B3F10093           | HC-B3TF-7A/T9212NK-2          | 1               | A/C            |                          |
| PROPELLER                      | B3F10093S          | HC-B3TF-7A/T9212NK-2/835-39EP | 1               | A/C            |                          |
| BLADE                          | T9212NK-2          | T9212N-2 BLADE,4H2200-10 BOOT | 3               | Prop           |                          |
| SPINNER                        | 835-39EP           | SPINNER ASSEMBLY              | 1               | Prop           |                          |
| SPIN MTG KIT                   | A-3491             | SPINNER - MTG KIT             | 1               | Prop           |                          |
| COUNTERWEIGHT SLUG B-3386-14H  |                    | BOLT,3/8-24,HEX HEAD          | 2               | Blade          |                          |
| COUNTERWEIGHT SLUG B-3663-3    |                    | PCP:SLUG, COUNTERWEIGHT       | 1               | Blade          |                          |
| COUNTERWEIGHT SLUG B-3834-0632 |                    | WASHER                        | 2               | Blade          |                          |
| DE-ICER                        | 4H2200-10          | DE-ICE BOOT                   | 1               | Blade          |                          |
| DE-ICE KIT PR                  | 7931-67-510-1      | DE-ICE KIT (ONE PROP)         | 1               | Prop           |                          |
| MTG BOLT/STUD                  | A-1328-1           | BOLT,MOUNTING,1/2-20,12 POINT | 6               | Prop           |                          |
| OVERHAUL KIT                   | HC-B3TF-7A-OH      | O/H KIT                       | 1               | Prop           | For aftermarket use only |

# HARTZELL

BEECH

**Model:** E55, E55A  
**Trade Name:** BARON  
**Aircraft T.C./STC:** STC-SA773CE  
**Propeller Model:** BHC-J2YF-2C(F)  
**Propeller T.C.:** P37EA  
**Blade Model(s):** FC8475-6  
**Prop Diameter:** 78" TO 76"

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**IDS No.:** 2421      **Rev.:** 1      **BC Date:** 07/09/2014

**Modifier:** HARTZELL PROPELLER

**Engine Model:** IO-520-C

**Power:** 285 HP @ 2700 RPM

**Placard/Restr:**

**Notes:** Use C-2285-4(P) OR C-2285-5(P) with air conditioned installation. Use C-2285-1(P) OR C-2285-6(P) with non-air conditioned installation.

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 14.5 +-0.1  
**Stud Protrusion** 1.450 +-0.030

**Startlock Angle:** 20.0 +-1.5

**Feather/High Angle:** 80.0 +-0.5

**Cwt Angle:**

### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:** WOODWARD

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>            | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|-------------------------------|-----------------|----------------|-----------------|
| PROPELLER        | J2F00060           | BHC-J2YF-2CUF/FC8475-6/SM8    | 2               | A/C            |                 |
| BLADE            | FC8475-6           | PCP:BLADE UNIT, B-3202H-4 CWT | 2               | Prop           |                 |
| SPINNER          | C-2285-1P          | SPINNER ASSEMBLY              | 1               | Prop           |                 |
| SPIN MTG KIT     | A-2476-8           | SPINNER - MTG KIT             | 1               | Prop           |                 |
| COUNTERWEIGHT    | B-3202H-4          | PCP:COUNTERWEIGHT             | 1               | Blade          | Blade Component |
| MTG BOLT/STUD    | A-2429-4           | STUD, MOUNTING, 1/2-20        | 6               | Prop           |                 |



# HARTZELL

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**BEECH**

**IDS No.:** 3259      **Rev.:** 11      |      **Date:** 11/06/2020

**Model:** E90, C90  
**Trade Name:** King Air  
**Aircraft T.C./STC:** SA3593NM  
**Propeller Model:** HC-D4N-3C  
**Propeller T.C.:** P10NE

**Modifier:** Raisbeck  
**Engine Model:** PT6A-135,135A, -28  
**Power:** 550 HP @ 1900 RPM  
**Placard/Restr:** Stabilized ground operation is prohibited between 500 and 1100 RPM. The propeller may be operated when feathered at or below 400 RPM.

**Blade Model(s):** D9510SK  
**Prop Diameter:** 96" to 95"

**Notes:**

**Prop Setup:**

**Ref. Radius:** 30"  
**Reverse Angle:** -10.0 +/- 0.5  
**Low Pitch Angle:** 18.6 +/-0.1  
**Stud Protrusion**

**Startlock Angle:**  
**Feather/High Angle:** 86.7 +/- 0.5  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>             | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>   |
|------------------|--------------------|--------------------------------|-----------------|----------------|---|
| PROPELLER        | D4N02002           | HC-D4N-3C/D9510SK/BULK         | 2               | A/C            | Propeller without: Spinner Dome, Forward Bulkhead, mounting screws and washers                                      |
| PROPELLER        | D4N02002KD         | HC-D4N-3C/D9510SK/BULK         | 2               | A/C            | Propeller without: Spinner Dome, Forward Bulkhead, mounting screws and washers. Shipped in knockdown configuration. |
| PROPELLER        | D4N02002S          | HC-D4N-3C/D9510SK/D-630-11P    | 2               | A/C            |   |
| PROPELLER        | D4N02002SKD        | HC-D4N-3C/D9510SK/D-630-11P    | 2               | A/C            |   |
| BLADE            | D9510SK            | PCP: BLADE UNIT, ALUMINUM      | 4               | Prop           |   |
| SPINNER          | D-630-11           | SPINNER ASSEMBLY               | 1               | Prop           |   |
| SPINNER          | D-630-11P          | SPINNER ASSEMBLY               | 1               | Prop           |   |
| SP MT KIT DE-ICE | A-2070-7           | SCREW, 1/4-28, BUTTON HEAD     | 8               | Prop           |   |
| COUNTERWEIGHT    | C-472-3            | PCP:COUNTERWEIGHT              | 1               | Blade          |   |
| DE-ICER          | 104729             | DE-ICE BOOT                    | 1               | Blade          |   |
| DE-ICE KIT PR    | 104779             | DE-ICE KIT (ONE PROP)          | 1               | Prop           | Superseded by 106298  |
| DE-ICE KIT PR    | 106298             | DE-ICE KIT (ONE PROP)          | 1               | Prop           | Supersedes 104779   |
| MTG BOLT/STUD    | B-3339-1           | BOLT,MOUNTING,9/16-18,12 POINT | 8               | Prop           |   |
| MISC ACCES       | A-3044             | BLOCK, BETA FEEDBACK- ASSEMBLY | 1               | Prop           |   |
| OVERHAUL KIT     | HC-D4N-3C-OH       | O/H KIT                        | 1               | Prop           | For aftermarket use only  |

# HARTZELL

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BEECH

IDS No.: 2963 Rev.: 4 IC Date: 07/15/2015

**Model:** 95-55, 95-(A)(B)55, 95-B55A, 95-B55B

**Trade Name:** Baron

**Aircraft T.C./STC:** SA01463WI

**Propeller Model:** PHC-C3YF-2UF

**Propeller T.C.:** P25EA

**Blade Model(s):** FC7391D

**Prop Diameter:** 75" to 73.5"

**Modifier:** Hartzell Propeller

**Engine Model:** IO-470-L

**Power:** 260 HP @ 2625 RPM

**Placard/Restr:**

**Notes:**

**Prop Setup:**

**Ref. Radius:** 30

**Reverse Angle:** N/A

**Low Pitch Angle:** 12.0 +/- 0.2

**Stud Protrusion** 1.450+- .030

**Startlock Angle:** 18.0 +/-1.0

**Feather/High Angle:** 80 +/- 0.5

**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:** Woodward

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>           | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>             |
|------------------|--------------------|------------------------------|-----------------|----------------|-----------------------------|
| PROPELLER        | C3F00160           | PHC-C3YF-2UF/FC7391D/SM9     | 2               | A/C            |                             |
| PROPELLER        | C3F00160KD         | PHC-C3YF-2UF/FC7391D/SM9     | 2               | A/C            |                             |
| BLADE            | FC7391D            | PCP:BLADE UNIT, ALUM [6,1,5] | 3               | Prop           |                             |
| SPINNER          | C-3567-1           | SPINNER ASSEMBLY             | 1               | Prop           |                             |
| SPINNER          | C-3567-1P          | SPINNER ASSEMBLY             | 1               | Prop           |                             |
| SPIN MTG KIT     | A-2476-9           | SPINNER - MTG KIT            | 1               | Prop           |                             |
| COUNTERWEIGHT    | B-3202H-1          | PCP:COUNTERWEIGHT            | 1               | Blade          |                             |
| MTG BOLT/STUD    | A-2429-4           | STUD, MOUNTING, 1/2-20       | 6               | Prop           | Use with E-7167-2 hub only  |
| MTG BOLT/STUD    | A-2429-7           | STUD, MOUNTING, 1/2-20       | 6               | Prop           | Use with E-7167-12 hub only |
| OVERHAUL KIT     | PHC-C3YF-2UF*1     | O/H KIT W/O SLIMSERTS        | 1               | Prop           | For aftermarket use only    |
| OVERHAUL KIT     | PHC-C3YF-2UF-OH    | O/H KIT                      | 1               | Prop           | For aftermarket use only    |

# HARTZELL

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**BEECH**

IDS No.: 135      Rev.: 2      IC Date: 07/07/2015

**Model:** C18S [(C-45(A, F), UC-45(B, F), AT-7 (A, B, C), JRB-(1, 2, 3, 4), SNB-2(C))]

**Modifier:**

**Trade Name:** TWIN BEECH

**Engine Model:** WASP JR., R-985 SERIES

**Aircraft T.C./STC:** A757

**Power:** 450 HP @ 2300 RPM

**Propeller Model:** HC-B3R30-2E(A)

**Placard/Restr:** No continuous operation from 1500-1700 and 2100-2275 RPM

**Propeller T.C.:** P28EA

**Notes:** 836-32SPR spinner replaces 836-16 & 17S specified in A757

**Blade Model(s):** R10152-5.5  
R10152B-5.5  
R10152N-5.5  
R10152NB-5.5

**Prop Diameter:** 95.5" NO CUT OFF

**Prop Setup:**

**Ref. Radius:** 30

**Startlock Angle:** BLADES MUST BE WITHIN 0.5 DEGREE

**Reverse Angle:** NA

**Feather/High Angle:** 87.0 +-0.5

**Low Pitch Angle:** 17.0 +-0.2

**Cwt Angle:** Positive

**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:** WOODWARD

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>         | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|----------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | B3300029           | HC-B3R30-2EA/R10152-5.5    | 0               |                | REPLACED BY B3310029(KD) |
| PROPELLER        | B3300030           | HC-B3R30-2EA/R10152NB-5.5  | 0               |                |                          |
| PROPELLER        | B3310029           | HC-B3R30-2EA/R10152N-5.5   | 0               |                |                          |
| PROPELLER        | B3310029KD         | HC-B3R30-2EA/R10152N-5.5   | 0               |                |                          |
| BLADE            | R10152-5.5         | PCP:BLADE UNIT, ALUMINUM   | 3               | Prop           | REPLACED BY R10152N-5.5  |
| BLADE            | R10152B-5.5        | PCP:BLADE UNIT, ALUMINUM   | 3               | Prop           | REPLACED BY R10152NB-5.5 |
| BLADE            | R10152N-5.5        | PCP:BLADE UNIT, ALUMINUM   | 3               | Prop           |                          |
| BLADE            | R10152NB-5.5       | PCP:BLADE UNIT, ALUMINUM   | 3               | Prop           |                          |
| SPINNER          | 836-32SPR          | SPINNER ASSEMBLY           | 1               | Prop           |                          |
| GOVERNOR         | C3                 | GOVERNOR ASSEMBLY, C-3-( ) | 1               | Prop           |                          |
| DE-ICER          | C-2131-1           | BOOT, ANTI-ICING           | 1               | Blade          | Blade Component          |
| MTG BOLT/STUD    | B-1894             | PCP: NUT,SHAFT, 30 SPLINE  | 1               | Prop           |                          |
| OVERHAUL KIT     | HC-B3R30-2EA-OH    | O/H KIT                    | 1               | Prop           | For aftermarket use only |

# HARTZELL

## APPLICATION GUIDE 159

**BEECH**

**Model:** C-45G,H; TC-45G,H,J; RC-45J  
**Trade Name:** TWIN BEECH  
**Aircraft T.C./STC:** A765  
**Propeller Model:** HC-B3(Z,W)30-2E  
**Propeller T.C.:**  
**Blade Model(s):** 10152-5.5  
 10152N-5.5  
**Prop Diameter:** 95.5" NO CUT OFF

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 17.0 +-0.2  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**IDS No.:** 138      **Rev.:** -      **DM Date:** 10/01/1992

**Modifier:**  
**Engine Model:** R985-AN-14B  
**Power:** 450 HP @ 2300 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 87.0 +-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:** WOODWARD

**Hartzell Approved Items:**

| Item Type | Item Number | Description                | Quantity | Qty Per | Comments                     |
|-----------|-------------|----------------------------|----------|---------|------------------------------|
| BLADE     | 10152-5.5   | BLADE                      | 3        | Prop    |                              |
| BLADE     | 10152N-5.5  | BLADE                      | 3        | Prop    |                              |
| SPINNER   | 836-16      | IDS Item                   | 1        | Prop    | Can be used with 10152B also |
| SPINNER   | 836-17S     | IDS Item                   | 1        | Prop    | used with 10152B only        |
| GOVERNOR  | C3          | GOVERNOR ASSEMBLY, C-3-( ) | 1        | Prop    |                              |

**BEECH**

**Model:** C-45G,H; TC-45G,H,J; RC-45J  
**Trade Name:** TWIN BEECH  
**Aircraft T.C./STC:** A765  
**Propeller Model:** HC-B3(Z,W)30-2E  
**Propeller T.C.:**  
**Blade Model(s):** 10160-6  
 10160N-6  
**Prop Diameter:** 95" NO CUT OFF

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 17.0 +-0.2  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**IDS No.:** 139      **Rev.:** -      **DM Date:** 10/01/1992

**Modifier:**  
**Engine Model:** R985-AN-14B  
**Power:** 450 HP @ 2300 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 87.0 +-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:** WOODWARD

**Hartzell Approved Items:**

| Item Type | Item Number | Description                | Quantity | Qty Per | Comments                     |
|-----------|-------------|----------------------------|----------|---------|------------------------------|
| BLADE     | 10160-6     | IDS Item                   | 3        | Prop    |                              |
| BLADE     | 10160N-6    | IDS Item                   | 3        | Prop    |                              |
| SPINNER   | 836-16      | IDS Item                   | 1        | Prop    | Can be used with 10160B also |
| SPINNER   | 836-17      | IDS Item                   | 1        | Prop    | used with 10160B only        |
| GOVERNOR  | C3          | GOVERNOR ASSEMBLY, C-3-( ) | 1        | Prop    |                              |

# HARTZELL

## APPLICATION GUIDE

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**BEECH**

**Model:** D18S,E18S,G18S,H18; 3N,3NM,3TM  
**Trade Name:** TWIN BEECH  
**Aircraft T.C./STC:** A765  
**Propeller Model:** HC-B3(Z,W)30-2E  
**Propeller T.C.:**  
**Blade Model(s):** 10160-6  
 10160N-6  
**Prop Diameter:** 95" NO CUT OFF

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 17.0 +-0.2  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type | Item Number | Description                | Quantity | Qty Per | Comments                     |
|-----------|-------------|----------------------------|----------|---------|------------------------------|
| BLADE     | 10160-6     | IDS Item                   | 3        | Prop    |                              |
| BLADE     | 10160N-6    | IDS Item                   | 3        | Prop    |                              |
| SPINNER   | 836-16      | IDS Item                   | 1        | Prop    | Can be used with 10160B also |
| SPINNER   | 836-17      | IDS Item                   | 1        | Prop    | used with 10160B only        |
| GOVERNOR  | C3          | GOVERNOR ASSEMBLY, C-3-( ) | 1        | Prop    |                              |

**IDS No.:** 137      **Rev.:** -      **DM Date:** 10/01/1992

**Modifier:**  
**Engine Model:** R985-AN-14B  
**Power:** 450 HP @ 2300 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 87.0 +-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:** WOODWARD

**BEECH**

**Model:** D18S,E18S,G18S,H18; 3NM,3N,3TM  
**Trade Name:** TWIN BEECH  
**Aircraft T.C./STC:** A-765  
**Propeller Model:** HC-B3(P,R,W,Z)30-2E  
**Propeller T.C.:** See Notes  
**Blade Model(s):** 10152-5.5  
 10152N-5.5  
**Prop Diameter:** 95.5" NO CUT OFF

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 17.0 +-0.2  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number | Description                | Quantity | Qty Per | Comments                     |
|---------------|-------------|----------------------------|----------|---------|------------------------------|
| BLADE         | 10152-5.5   | BLADE                      | 3        | Prop    |                              |
| BLADE         | 10152N-5.5  | BLADE                      | 3        | Prop    |                              |
| SPINNER       | 836-16      | IDS Item                   | 1        | Prop    | Can be used with 10152B also |
| SPINNER       | 836-17S     | IDS Item                   | 1        | Prop    | used with 10152B only        |
| GOVERNOR      | C3          | GOVERNOR ASSEMBLY, C-3-( ) | 1        | Prop    |                              |
| MTG BOLT/STUD | B-1894      | PCP: NUT,SHAFT, 30 SPLINE  | 1        | Prop    |                              |

**IDS No.:** 136      **Rev.:** -      **DM Date:** 03/04/2010

**Modifier:**  
**Engine Model:** R985-AN-14B  
**Power:** 450 HP @ 2300 RPM  
**Placard/Restr:**  
**Notes:**

TC NO.: P2EA, date: 12/9/61 for W; TC NO.: P28EA, date: 3/31/67 for R; TC NO.: P29EA, date: 7/6/67 for P; TC NO.: P907, date: 12/22/59 for Z. HC-B3W30-2E not approved on 3N, 3NM & 3TM.

**Startlock Angle:** NA  
**Feather/High Angle:** 87.0 +-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:** WOODWARD

# HARTZELL

## APPLICATION GUIDE 159

**BEECH**

**IDS No.:** 2676      **Rev.:** 1      **D**      **Date:** 01/10/2011

**Model:** C18S [(C-45(A,F), UC-45(B,F), AT-7(A,B,C), JRB-(1,2,3,4), SNB-2(C)

**Modifier:**

**Trade Name:** TWIN BEECH

**Engine Model:** WASP JR., R-985 SERIES

**Aircraft T.C./STC:** A757

**Power:** 450 HP @ 2300 RPM

**Propeller Model:** HC-B3W30-2E(A)

**Placard/Restr:** No continuous operation from 1500-1700 and 2100-2275 RPM.

**Propeller T.C.:** P2EA

**Notes:** 836-32SPR spinner replaces 836-16 & 17S specified in A757

**Blade Model(s):** W10152-5.5  
W10152N-5.5  
W10152NB-5.5

**Prop Diameter:** 95.5" NO CUT OFF

**Prop Setup:**

**Ref. Radius:** 30

**Startlock Angle:** BLADES MUST BE WITHIN 0.5 DEGREE

**Reverse Angle:** NA

**Feather/High Angle:** 87.0 +-0.5

**Low Pitch Angle:** 17.0 +-0.2

**Cwt Angle:** POSITIVE

**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:** WOODWARD

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>         | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|----------------------------|-----------------|----------------|-----------------|
| BLADE            | W10152-5.5         | IDS ITEM, BLADE            | 3               | Prop           | W10152N-5.5     |
| BLADE            | W10152N-5.5        | PCP:BLADE UNIT, ALUMINUM   | 3               | Prop           |                 |
| BLADE            | W10152NB-5.5       | PCP:BLADE UNIT, ALUMINUM   | 3               | Prop           |                 |
| SPINNER          | 836-32SPR          | SPINNER ASSEMBLY           | 1               | Prop           |                 |
| GOVERNOR         | C3                 | GOVERNOR ASSEMBLY, C-3-( ) | 1               | Prop           |                 |
| MTG BOLT/STUD    | B-1894             | PCP: NUT,SHAFT, 30 SPLINE  | 1               | Prop           |                 |

# HARTZELL

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**BEECH**

**Model:** C18S [(C-45(A,F), UC-45(B,F), AT-7(A,B,C), JRB-(1,2,3,4), SNB-2(C)

**Trade Name:** TWIN BEECH

**Aircraft T.C./STC:** A757

**Propeller Model:** HC-B3Z30-2EA

**Propeller T.C.:** P-907

**Blade Model(s):** 10152N-5.5  
10152NB-5.5

**Prop Diameter:** 95.5" NO CUT OFF

**Prop Setup:**

**Ref. Radius:** 30

**Reverse Angle:** NA

**Low Pitch Angle:** 17.0 +-0.2

**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number | Description               | Quantity | Qty Per | Comments        |
|---------------|-------------|---------------------------|----------|---------|-----------------|
| BLADE         | 10152N-5.5  | BLADE                     | 3        | Prop    |                 |
| BLADE         | 10152NB-5.5 | PCP:BLADE UNIT, ALUMINUM  | 3        | Prop    |                 |
| SPINNER       | 836-32SPR   | SPINNER ASSEMBLY          | 1        | Prop    |                 |
| GOVERNOR      | C3          | GOVERNOR ASSEMBLY, C-3( ) | 1        | Prop    |                 |
| DE-ICER       | C-2131-1    | BOOT, ANTI-ICING          | 1        | Blade   | BLADE COMPONENT |
| MTG BOLT/STUD | B-1894      | PCP: NUT,SHAFT, 30 SPLINE | 1        | Prop    |                 |

**IDS No.:** 2677

**Rev.:** 1

**D**

**Date:** 01/10/2011

**Modifier:**

**Engine Model:** WASP JR., R-985 SERIES

**Power:** 450 HP @ 2300 RPM

**Placard/Restr:** No continuous operation from 1500-1700 and 2100-2275 RPM.

**Notes:** 836-32SPR spinner replaces 836-16 & 17S specified in A757

**Startlock Angle:** BLADES MUST BE WITHIN 0.5 DEGREE

**Feather/High Angle:** 87.0 +-0.5

**Cwt Angle:** POSITIVE

**Non-HPI Governor:** WOODWARD

**BEECH**

**Model:** C18S, AT-11

**Trade Name:** TWIN BEECH

**Aircraft T.C./STC:** STC-SA1-50

**Propeller Model:** HC-(9,B)3(Z,W,P,R)30-2C, -2E

**Propeller T.C.:**

**Blade Model(s):** 10152-5.5  
10152N-5.5

**Prop Diameter:** 95.5" NO CUT OFF

**Prop Setup:**

**Ref. Radius:** 30

**Reverse Angle:** NA

**Low Pitch Angle:** 17.0 +-0.2

**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type | Item Number | Description               | Quantity | Qty Per | Comments |
|-----------|-------------|---------------------------|----------|---------|----------|
| BLADE     | 10152-5.5   | BLADE                     | 3        | Prop    |          |
| BLADE     | 10152N-5.5  | BLADE                     | 3        | Prop    |          |
| SPINNER   | 836-32SR    | SPINNER ASSEMBLY          | 1        | Prop    |          |
| GOVERNOR  | C1          | IDS Item                  | 1        | Prop    | See STC  |
| GOVERNOR  | C2          | IDS Item                  | 1        | Prop    | See STC  |
| GOVERNOR  | C3          | GOVERNOR ASSEMBLY, C-3( ) | 1        | Prop    |          |

**IDS No.:** 140

**Rev.:** -

**DM**

**Date:** 10/01/1992

**Modifier:** HARTZELL PROPELLER

**Engine Model:** R985 (with 4.5 & 9 damper)

**Power:** 450 HP @ 2300 RPM

**Placard/Restr:**

**Notes:**

**Startlock Angle:** NA

**Feather/High Angle:** 88.0 +-0.5

**Cwt Angle:** Positive

**Non-HPI Governor:**

# HARTZELL

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**BEECH**

**Model:** C18S, AT-11  
**Trade Name:** TWIN BEECH  
**Aircraft T.C./STC:** STC-SA1-50  
**Propeller Model:** HC-B3(Z,W)30-2E  
**Propeller T.C.:**  
**Blade Model(s):** 10160-6  
 10160N-6  
**Prop Diameter:** 95" NO CUT OFF

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 17.0 +-0.2  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type | Item Number | Description               | Quantity | Qty Per | Comments |
|-----------|-------------|---------------------------|----------|---------|----------|
| BLADE     | 10160-6     | IDS Item                  | 3        | Prop    |          |
| BLADE     | 10160N-6    | IDS Item                  | 3        | Prop    |          |
| SPINNER   | 836-32SR    | SPINNER ASSEMBLY          | 1        | Prop    |          |
| GOVERNOR  | C1          | IDS Item                  | 1        | Prop    | See STC  |
| GOVERNOR  | C2          | IDS Item                  | 1        | Prop    | See STC  |
| GOVERNOR  | C3          | GOVERNOR ASSEMBLY, C-3(-) | 1        | Prop    |          |

**IDS No.:** 141      **Rev.:** -      **DM Date:** 10/01/1992

**Modifier:** HARTZELL PROPELLER  
**Engine Model:** R985 (with 4.5 & 9 damper)  
**Power:** 450 HP @ 2300 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 88.0 +-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:**

**BEECH**

**Model:** D18S, C-45G, C-45H  
**Trade Name:** TWIN BEECH  
**Aircraft T.C./STC:** STC-SA1-118  
**Propeller Model:** HC-(9,B)3(Z,W,P,R)30-2E  
**Propeller T.C.:**  
**Blade Model(s):** 10152-5.5  
 10152N-5.5  
**Prop Diameter:** 95.5" NO CUT OFF

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 17.0 +-0.2  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type | Item Number | Description               | Quantity | Qty Per | Comments |
|-----------|-------------|---------------------------|----------|---------|----------|
| BLADE     | 10152-5.5   | BLADE                     | 3        | Prop    |          |
| BLADE     | 10152N-5.5  | BLADE                     | 3        | Prop    |          |
| SPINNER   | 836-32SR    | SPINNER ASSEMBLY          | 1        | Prop    |          |
| GOVERNOR  | C1          | IDS Item                  | 1        | Prop    | See STC  |
| GOVERNOR  | C2          | IDS Item                  | 1        | Prop    | See STC  |
| GOVERNOR  | C3          | GOVERNOR ASSEMBLY, C-3(-) | 1        | Prop    |          |

**IDS No.:** 142      **Rev.:** -      **DM Date:** 10/01/1992

**Modifier:** HARTZELL PROPELLER  
**Engine Model:** R985 (with 4.5 & 9 damper)  
**Power:** 450 HP @ 2300 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 88.0 +-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:**



# HARTZELL

## APPLICATION GUIDE

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BEECH

**Model:** D18S, C-45G, C-45H  
**Trade Name:** TWIN BEECH  
**Aircraft T.C./STC:** STC-SA1-118  
**Propeller Model:** HC-B3(Z,W)30-2E  
**Propeller T.C.:**  
**Blade Model(s):** 10160-6  
10160N-6  
**Prop Diameter:** 95" NO CUT OFF

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 17.0 +/-0.2  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 143 **Rev.:** - **DM Date:** 10/01/1992

**Modifier:** HARTZELL PROPELLER  
**Engine Model:** R985 (with 4.5 & 9 damper)  
**Power:** 450 HP @ 2300 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 88.0 +/-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>        | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|---------------------------|-----------------|----------------|-----------------|
| BLADE            | 10160-6            | IDS Item                  | 3               | Prop           |                 |
| BLADE            | 10160N-6           | IDS Item                  | 3               | Prop           |                 |
| SPINNER          | 836-32SR           | SPINNER ASSEMBLY          | 1               | Prop           |                 |
| GOVERNOR         | C1                 | IDS Item                  | 1               | Prop           | See STC         |
| GOVERNOR         | C2                 | IDS Item                  | 1               | Prop           | See STC         |
| GOVERNOR         | C3                 | GOVERNOR ASSEMBLY, C-3(-) | 1               | Prop           |                 |

BEECH

**Model:** 18 SERIES  
**Trade Name:** TWIN BEECH  
**Aircraft T.C./STC:** STC-SA1-174  
**Propeller Model:** HC-93Z30-2C  
**Propeller T.C.:**  
**Blade Model(s):** 10152-5.5  
10152N-5.5  
**Prop Diameter:** 95.5"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:**  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 144 **Rev.:** - **DM Date:** 10/01/1992

**Modifier:** CHAMBERLAIN AV.  
**Engine Model:** R985  
**Power:** 450 HP @ 2300 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:**  
**Feather/High Angle:**  
**Cwt Angle:** Positive

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u> | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|--------------------|-----------------|----------------|-----------------|
| BLADE            | 10152-5.5          | BLADE              | 3               | Prop           |                 |
| BLADE            | 10152N-5.5         | BLADE              | 3               | Prop           |                 |

# HARTZELL

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BEECH

**Model:** C45  
**Trade Name:** TWIN BEECH  
**Aircraft T.C./STC:** STC-SA3442  
**Propeller Model:** HC-93Z30-2D  
**Propeller T.C.:**  
**Blade Model(s):** 10152-5.5  
10152N-5.5  
10160-6  
10160N-6  
**Prop Diameter:** 95.5"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:**  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u> | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|--------------------|-----------------|----------------|-----------------|
| BLADE            | 10152-5.5          | BLADE              | 3               | Prop           |                 |
| BLADE            | 10152N-5.5         | BLADE              | 3               | Prop           |                 |
| BLADE            | 10160-6            | IDS Item           | 3               | Prop           |                 |
| BLADE            | 10160N-6           | IDS Item           | 3               | Prop           |                 |

**IDS No.:** 145      **Rev.:** -      **DM Date:** 10/01/1992

**Modifier:** HAMILTON AIRCRAFT  
**Engine Model:** R985  
**Power:** 450 HP @ 2300 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:**  
**Feather/High Angle:**  
**Cwt Angle:** Positive

**Non-HPI Governor:**

BEECH

**Model:** 18, C45  
**Trade Name:** TWIN BEECH  
**Aircraft T.C./STC:** STC-SA4-113  
**Propeller Model:** HC-93Z30-2C  
**Propeller T.C.:**  
**Blade Model(s):** 10152-5.5  
10152N-5.5  
**Prop Diameter:** 95.5" MIN

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 17.0 +-0.1  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>        | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|---------------------------|-----------------|----------------|-----------------|
| BLADE            | 10152-5.5          | BLADE                     | 3               | Prop           |                 |
| BLADE            | 10152N-5.5         | BLADE                     | 3               | Prop           |                 |
| SPINNER          | 836-16             | IDS Item                  | 1               | Prop           |                 |
| GOVERNOR         | C3                 | GOVERNOR ASSEMBLY, C-3(-) | 1               | Prop           |                 |

**IDS No.:** 146      **Rev.:** -      **DM Date:** 10/01/1992

**Modifier:** AIRLINE TRAINING  
**Engine Model:** R985-AN4, -AN10, -AN14B  
**Power:** 450 HP @ 2300 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:**  
**Feather/High Angle:** 87.0 +-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:**

# HARTZELL

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BEECH

**Model:** 18S  
**Trade Name:** TWIN BEECH  
**Aircraft T.C./STC:** STC-SA890CE  
**Propeller Model:** HC-B3WN-2L  
**Propeller T.C.:** P2EA  
**Blade Model(s):** LW10151-3  
LW10151N-3  
**Prop Diameter:** 98.4"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** UNKNOWN  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>                | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>        |
|------------------|--------------------|-----------------------------------|-----------------|----------------|------------------------|
| BLADE            | LW10151-3          | IDS ITEM, BLADE                   | 3               | Prop           | REPLACED BY LW10151N-3 |
| BLADE            | LW10151N-3         | IDS ITEM, BLADE                   | 3               | Prop           |                        |
| SPINNER          | 836-42             | IDS Item                          | 1               | Prop           |                        |
| MTG BOLT/STUD    | B-3339             | BOLT, MOUNTING, 9/16-18, 12 POINT | 8               | Prop           |                        |

**IDS No.:** 147      **Rev.:** 1      **D**      **Date:** 01/07/2011

**Modifier:** AIR TRANSPORT CORP  
**Engine Model:** TIGO-541-B1A  
**Power:** 450 HP @ 2133 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:**  
**Feather/High Angle:** UNKNOWN  
**Cwt Angle:** Positive

**Non-HPI Governor:**

BEECH

**Model:** TURBO 18  
**Trade Name:** TWIN BEECH  
**Aircraft T.C./STC:** STC-SA1171WE  
**Propeller Model:** HC-B3TN-5C  
**Propeller T.C.:** P15EA  
**Blade Model(s):** T10178-7Q  
T10178N-7Q  
**Prop Diameter:** 94"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** NA  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>                | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|-----------------------------------|-----------------|----------------|-----------------|
| BLADE            | T10178-7Q          | IDS ITEM, BLADE                   | 3               | Prop           |                 |
| BLADE            | T10178N-7Q         | IDS ITEM, BLADE                   | 3               | Prop           |                 |
| SPINNER          | C-3043-3           | SPINNER ASSEMBLY                  | 1               | Prop           |                 |
| MTG BOLT/STUD    | B-3339             | BOLT, MOUNTING, 9/16-18, 12 POINT | 8               | Prop           |                 |

**IDS No.:** 148      **Rev.:** -      **DM**      **Date:** 01/09/2004

**Modifier:** VOLPAR INC.  
**Engine Model:** TPE331-1-101B  
**Power:** 575 HP @ 2000 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:**  
**Cwt Angle:** Unknown

**Non-HPI Governor:**

# HARTZELL

## APPLICATION GUIDE

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**BEECH**

IDS No.: 159      Rev.: 2      IC      Date: 01/27/2020

**Model:** TURBO 18  
**Trade Name:** TWIN BEECH  
**Aircraft T.C./STC:** STC-SA3385WE  
**Propeller Model:** HC-B3TN-5M  
**Propeller T.C.:** P15EA  
**Blade Model(s):** T10178-5Q  
                          T10178B-5Q  
                          T10178B-5Q\*1  
                          T10178N-5Q  
                          T10178NB-5Q  
                          T10178NB-5Q\*1

**Modifier:** VOLPAR INC.  
**Engine Model:** TPE331-1-101B  
**Power:** 575 HP @ 2000 RPM  
**Placard/Restr:**  
**Notes:**

**Prop Diameter:** 96.0"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** -9.5 +-0.5  
**Low Pitch Angle:** NA  
**Stud Protrusion**

**Startlock Angle:** 2.5 +-0.2  
**Feather/High Angle:** 86.5 +-1.0  
**Cwt Angle:** Positive

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type                      | Item Number   | Description                       | Quantity | Qty Per | Comments                      |
|--------------------------------|---------------|-----------------------------------|----------|---------|-------------------------------|
| BLADE                          | T10178-5Q     | IDS*ITEM, BLADE                   | 3        | Prop    |                               |
| BLADE                          | T10178B-5Q    | IDS*ITEM, BLADE, 4E1188-5 BOOT    | 3        | Prop    |                               |
| BLADE                          | T10178B-5Q*1  | IDS*ITEM, BLADE, 4E1188-3 BOOT    | 3        | Prop    |                               |
| BLADE                          | T10178N-5Q    | PCP:BLADE UNIT, ALUMINUM          | 3        | Prop    |                               |
| BLADE                          | T10178NB-5Q   | BLADE UNIT, ALUMINUM, 4E1188-5    | 3        | Prop    |                               |
| BLADE                          | T10178NB-5Q*1 | IDS ITEM, BLADE, 4E1188-3 BOOT    | 3        | Prop    |                               |
| SPINNER                        | C-3043-3      | SPINNER ASSEMBLY                  | 1        | Prop    |                               |
| SPINNER                        | C-3043-3P     | SPINNER ASSEMBLY                  | 1        | Prop    |                               |
| COUNTERWEIGHT SLUG A-3039      |               | SLUG, COUNTERWEIGHT               | 1        | Blade   |                               |
| COUNTERWEIGHT SLUG A-890-6     |               | PCP:SLUG, COUNTERWEIGHT           | 1        | Blade   | Primary                       |
| COUNTERWEIGHT SLUG A-890-8     |               | PCP:SLUG, COUNTERWEIGHT           | 1        | Blade   | Secondary option (w/ A-890-9) |
| COUNTERWEIGHT SLUG A-890-9     |               | PCP:SLUG, COUNTERWEIGHT           | 1        | Blade   | Secondary option (w/ A-890-8) |
| COUNTERWEIGHT SLUG B-3384-21H  |               | BOLT, 1/4-28, HEX HEAD            | 2        | Blade   |                               |
| COUNTERWEIGHT SLUG B-3851-0463 |               | WASHER                            | 2        | Blade   | Optional                      |
| DE-ICER                        | 4H1188-3      | DE-ICE BOOT                       | 1        | Blade   | Supersedes 7931-4E1188-3      |
| DE-ICER                        | 4H1188-5      | DE-ICE BOOT                       | 1        | Blade   | Supersedes 7931-4E1188-5      |
| DE-ICE KIT PR                  | 7931-65-093   | DE-ICE KIT                        | 1        | Prop    | -5                            |
| MTG BOLT/STUD                  | B-3339        | BOLT, MOUNTING, 9/16-18, 12 POINT | 8        | Prop    |                               |

# HARTZELL

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**BEECH**

**Model:** (D,E)18(C,S) (T,C)45(G,H)

**Trade Name:** TWIN BEECH

**Aircraft T.C./STC:** STC-SA1016WE

**Propeller Model:** HC-B3TN-3B

**Propeller T.C.:** P15EA

**Blade Model(s):** T10173E-8\*1  
T10173NE-8\*1

**Prop Diameter:** 93.5"

**Prop Setup:**

**Ref. Radius:** 30

**Reverse Angle:** -11.5 +-0.5

**Low Pitch Angle:** 19.0 +-0.1

**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**IDS No.:** 160      **Rev.:** 1      **D**      **Date:** 01/07/2011

**Modifier:** HAMILTON A/C CORP

**Engine Model:** PT6A-6, -20

**Power:** 550 HP @ 2200 RPM

**Placard/Restr:**

**Notes:**

**Startlock Angle:** NA

**Feather/High Angle:** 87.0 +-1.0

**Cwt Angle:** Positive

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u>               | <u>Item Number</u> | <u>Description</u>                | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|--------------------------------|--------------------|-----------------------------------|-----------------|----------------|-----------------|
| BLADE                          | T10173E-8*1        | IDS*ITEM, BLADE                   | 3               | Prop           |                 |
| BLADE                          | T10173NE-8*1       | IDS ITEM, BLADE                   | 3               | Prop           |                 |
| SPINNER                        | C-3006P            | IDS Item                          | 1               | Prop           |                 |
| SPINNER                        | C-3065             | SPINNER ASSEMBLY                  | 1               | Prop           |                 |
| COUNTERWEIGHT SLUG A-3039      |                    | SLUG, COUNTERWEIGHT               | 1               | Blade          |                 |
| COUNTERWEIGHT SLUG A-890-8     |                    | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          |                 |
| COUNTERWEIGHT SLUG B-3384-18H  |                    | BOLT, 1/4-28, HEX HEAD            | 2               | Blade          |                 |
| COUNTERWEIGHT SLUG B-3851-0432 |                    | WASHER                            | 2               | Blade          | Optional        |
| COUNTERWEIGHT SLUG B-3851-0463 |                    | WASHER                            | 2               | Blade          | Optional        |
| MTG BOLT/STUD                  | B-3339             | BOLT, MOUNTING, 9/16-18, 12 POINT | 8               | Prop           |                 |

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### BEECH

**Model:** 18  
**Trade Name:** TWIN BEECH  
**Aircraft T.C./STC:** STC-SA793SW  
**Propeller Model:** HC-B3TN-3B  
**Propeller T.C.:** P15EA  
**Blade Model(s):** T10173-5  
 T10173N-5  
**Prop Diameter:** 96.5" TO 90.4"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** -14.5 +-0.5  
**Low Pitch Angle:** 14.0 +-0.1  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

#### Hartzell Approved Items:

| Item Type                      | Item Number | Description                       | Quantity | Qty Per | Comments |
|--------------------------------|-------------|-----------------------------------|----------|---------|----------|
| BLADE                          | T10173-5    | IDS*ITEM, BLADE                   | 3        | Prop    |          |
| BLADE                          | T10173N-5   | IDS ITEM, BLADE                   | 3        | Prop    |          |
| SPINNER                        | C-3065      | SPINNER ASSEMBLY                  | 1        | Prop    |          |
| COUNTERWEIGHT SLUG A-3039      |             | SLUG, COUNTERWEIGHT               | 1        | Blade   |          |
| COUNTERWEIGHT SLUG A-890-8     |             | PCP:SLUG, COUNTERWEIGHT           | 1        | Blade   |          |
| COUNTERWEIGHT SLUG B-3384-18H  |             | BOLT, 1/4-28, HEX HEAD            | 2        | Blade   |          |
| COUNTERWEIGHT SLUG B-3851-0432 |             | WASHER                            | 2        | Blade   | Optional |
| COUNTERWEIGHT SLUG B-3851-0463 |             | WASHER                            | 2        | Blade   | Optional |
| MTG BOLT/STUD                  | B-3339      | BOLT, MOUNTING, 9/16-18, 12 POINT | 8        | Prop    |          |

**IDS No.:** 161      **Rev.:** 1      **D**      **Date:** 01/07/2011

**Modifier:** DEE HOWARD  
**Engine Model:** PT6A-20  
**Power:** 550 HP @ 2200 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 87.0 +-1.0  
**Cwt Angle:** Positive

**Non-HPI Governor:**

### BEECH

**Model:** B24R  
**Trade Name:** SIERRA  
**Aircraft T.C./STC:** A1CE  
**Propeller Model:** HC-M2YR-1BF  
**Propeller T.C.:** P43GL  
**Blade Model(s):** F7666A-2R  
**Prop Diameter:** 74" NO CUT OFF

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 14.4 +-0.2  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

#### Hartzell Approved Items:

| Item Type     | Item Number    | Description                | Quantity | Qty Per | Comments                 |
|---------------|----------------|----------------------------|----------|---------|--------------------------|
| PROPELLER     | M2R00039       | HC-M2YR-1BF/F7666A-2R/SM43 | 1        | A/C     |                          |
| BLADE         | F7666A-2R      | PCP:BLADE UNIT, ALUMINUM   | 2        | Prop    |                          |
| SPINNER       | A-2298-2       | SPINNER ASSEMBLY           | 1        | Prop    |                          |
| SPIN MTG KIT  | A-2476-43      | SPINNER - MTG KIT          | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2067         | STUD, MOUNTING, 1/2-20     | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-M2YR-1BF-OH | O/H KIT                    | 1        | Prop    | For aftermarket use only |

**IDS No.:** 162      **Rev.:** 1      **IC**      **Date:** 07/07/2015

**Modifier:**  
**Engine Model:** IO-360-A1B6  
**Power:** 200 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 29.0 +-2.0  
**Cwt Angle:**

**Non-HPI Governor:** WOODWARD

# HARTZELL

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BEECH

**Model:** C24R  
**Trade Name:** SIERRA  
**Aircraft T.C./STC:** A1CE  
**Propeller Model:** HC-M2YR-1BF  
**Propeller T.C.:** P43GL  
**Blade Model(s):** F7666A  
**Prop Diameter:** 76" NO CUT OFF

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.0 +-0.1  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 163      **Rev.:** 1      **IC Date:** 07/07/2015

**Modifier:**

**Engine Model:** IO-360-A1B6

**Power:** 200 HP @ 2700 RPM

**Placard/Restr:** Avoid cont. ops between 2100 - 2350 RPM

**Notes:**

**Startlock Angle:** NA

**Feather/High Angle:** 29.0 +-2.0

**Cwt Angle:**

**Non-HPI Governor:** WOODWARD

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>           | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|------------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | M2R00030           | HC-M2YR-1BF/F7666A/SM43      | 1               | A/C            |                          |
| BLADE            | F7666A             | PCP:BLADE UNIT, ALUM [1,1,1] | 2               | Prop           |                          |
| SPINNER          | A-2298-2P          | SPINNER ASSEMBLY             | 1               | Prop           |                          |
| SPIN MTG KIT     | A-2476-43          | SPINNER - MTG KIT            | 1               | Prop           |                          |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20       | 6               | Prop           |                          |
| OVERHAUL KIT     | HC-M2YR-1BF-OH     | O/H KIT                      | 1               | Prop           | For aftermarket use only |

BEECH

**Model:** 35-33,35-(A,B,C)  
**Trade Name:** DEBONAIR  
**Aircraft T.C./STC:** 3A15  
**Propeller Model:** BHC-92ZF-1D1  
**Propeller T.C.:** P-892  
**Blade Model(s):** 8447  
8447N  
**Prop Diameter:** 84" TO 82"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 11.0 +-0.2  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 167      **Rev.:** 1      **D Date:** 01/07/2011

**Modifier:**

**Engine Model:** IO-470-K

**Power:** 225 HP @ 2600 RPM

**Placard/Restr:**

**Notes:**

**Startlock Angle:** NA

**Feather/High Angle:** 26.0 +-1.0

**Cwt Angle:** Positive

**Non-HPI Governor:** WOODWARD

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>               | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|----------------------------------|-----------------|----------------|-----------------|
| BLADE            | 8447               | BLADE UNIT, ALUMINUM             | 2               | Prop           |                 |
| BLADE            | 8447N              | PCP:BLADE UNIT, ALUMINUM         | 2               | Prop           |                 |
| SPINNER          | 837-3              | SPINNER ASSEMBLY                 | 1               | Prop           |                 |
| GOVERNOR         | B4-3               | IDS Item                         | 1               | A/C            |                 |
| MTG BOLT/STUD    | A-1328-2           | BOLT, MOUNTING, 1/2-20, 12 POINT | 6               | Prop           |                 |

# HARTZELL

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**BEECH**

**Model:** 35-C33A, E33A, F33A  
**Trade Name:** BONANZA  
**Aircraft T.C./STC:** 3A15  
**Propeller Model:** PHC-A3VF-4  
**Propeller T.C.:** P6EA  
**Blade Model(s):** V8433-2R  
V8433N-2R  
**Prop Diameter:** 82.6" TO 78.25"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 11.2 +-0.2  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type | Item Number | Description | Quantity | Qty Per | Comments |
|-----------|-------------|-------------|----------|---------|----------|
| BLADE     | V8433-2R    | BLADE       | 3        | Prop    |          |
| BLADE     | V8433N-2R   | BLADE       | 3        | Prop    |          |

**IDS No.:** 2356      **Rev.:** -      **DM Date:** 12/01/2003

**Modifier:**  
**Engine Model:** IO-520-B, -BA, -BB  
**Power:** 285 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 30.8 +-0.5  
**Cwt Angle:** POSITIVE

**Non-HPI Governor:**

**BEECH**

**Model:** 35-C33A,E33A,F33A  
**Trade Name:** BONANZA, DEBONAIR  
**Aircraft T.C./STC:** 3A15  
**Propeller Model:** PHC-A3VF-4  
**Propeller T.C.:** P6EA  
**Blade Model(s):** V8433-2R  
V8433N-2R  
**Prop Diameter:** 82.6" TO 78.25"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 10.5 +-0.2  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number | Description                   | Quantity | Qty Per | Comments |
|---------------|-------------|-------------------------------|----------|---------|----------|
| BLADE         | V8433-2R    | BLADE                         | 3        | Prop    |          |
| BLADE         | V8433N-2R   | BLADE                         | 3        | Prop    |          |
| SPINNER       | 837-8       | SPINNER ASSEMBLY              | 1        | Prop    |          |
| MTG BOLT/STUD | A-1333-3    | BOLT,MOUNTING,1/2-20,HEX HEAD | 6        | Prop    |          |

**IDS No.:** 2083      **Rev.:** -      **DM Date:** 11/20/2003

**Modifier:**  
**Engine Model:** IO-520-B,-BA,-BB  
**Power:** 285 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 30.8 +-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:** WOODWARD



# HARTZELL

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BEECH

**Model:** 35-C33A,E33A,F33A  
**Trade Name:** BONANZA, DEBONAIR  
**Aircraft T.C./STC:** 3A15  
**Propeller Model:** PHC-A3VF-4  
**Propeller T.C.:** P6EA  
**Blade Model(s):** V8433-4R  
V8433N-4R  
**Prop Diameter:** 82.6" TO 78.25"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 11.2 +/-0.2  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 2301      **Rev.:** -      **DM Date:** 11/20/2003

**Modifier:**  
**Engine Model:** IO-520-B,-BA,-BB  
**Power:** 285 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 30.8 +/-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:** WOODWARD

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>            | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|-------------------------------|-----------------|----------------|-----------------|
| BLADE            | V8433-4R           | BLADE                         | 3               | Prop           |                 |
| BLADE            | V8433N-4R          | BLADE                         | 3               | Prop           |                 |
| SPINNER          | 837-8              | SPINNER ASSEMBLY              | 1               | Prop           |                 |
| MTG BOLT/STUD    | A-1333-3           | BOLT,MOUNTING,1/2-20,HEX HEAD | 6               | Prop           |                 |

BEECH

**Model:** 35-C33A,E33A,F33A  
**Trade Name:** BONANZA, DEBONAIR  
**Aircraft T.C./STC:** 3A15  
**Propeller Model:** PHC-A3MVF-4  
**Propeller T.C.:** P6EA  
**Blade Model(s):** MV8433N-2R  
MV8433N-4R  
**Prop Diameter:** 82.6" TO 78.25"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 10.5 +/-0.2  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 169      **Rev.:** -      **DM Date:** 10/05/1998

**Modifier:**  
**Engine Model:** IO-520-B,-BA,-BB  
**Power:** 285 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 30.8 +/-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:** WOODWARD

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>            | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|-------------------------------|-----------------|----------------|-----------------|
| BLADE            | MV8433N-2R         | PCP:BLADE UNIT, ALUMINUM      | 3               | Prop           |                 |
| BLADE            | MV8433N-4R         | PCP:BLADE UNIT, ALUMINUM      | 3               | Prop           |                 |
| SPINNER          | 837-8              | SPINNER ASSEMBLY              | 1               | Prop           |                 |
| MTG BOLT/STUD    | A-1333-3           | BOLT,MOUNTING,1/2-20,HEX HEAD | 6               | Prop           |                 |

# HARTZELL

BEECH

**Model:** 35-C33A,E33A,F33A  
**Trade Name:** BONANZA, DEBONAIR  
**Aircraft T.C./STC:** 3A15  
**Propeller Model:** PHC-A3MVF-4  
**Propeller T.C.:** P6EA  
**Blade Model(s):** MV8433N-2R  
MV8433N-4R  
**Prop Diameter:** 82.6" TO 78.25"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 11.2 +/-0.2  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

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**IDS No.:** 1563      **Rev.:** -      **DM Date:** 10/05/1998

**Modifier:**  
**Engine Model:** IO-520-B,-BA,-BB  
**Power:** 285 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 30.8 +/-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:** WOODWARD

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>            | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|-------------------------------|-----------------|----------------|-----------------|
| BLADE            | MV8433N-2R         | PCP:BLADE UNIT, ALUMINUM      | 3               | Prop           |                 |
| BLADE            | MV8433N-4R         | PCP:BLADE UNIT, ALUMINUM      | 3               | Prop           |                 |
| SPINNER          | 837-8              | SPINNER ASSEMBLY              | 1               | Prop           |                 |
| MTG BOLT/STUD    | A-1333-3           | BOLT,MOUNTING,1/2-20,HEX HEAD | 6               | Prop           |                 |

# HARTZELL

## APPLICATION GUIDE

159

**BEECH**

**Model:** (E,F,G)33, (J,K,M,N,P)35, 35-33, 35-(A,B,C)33

**Trade Name:** BONANZA, DEBONAIR

**Aircraft T.C./STC:** STC-SA818CE

**Propeller Model:** BHC-L2YF-1BF

**Propeller T.C.:** P39EA

**Blade Model(s):** F8468AR  
F8468AR\*1

**Prop Diameter:** 84.0" TO 82.5"

**Prop Setup:**

**Ref. Radius:** 30

**Reverse Angle:** NA

**Low Pitch Angle:** 12.8 +-0.1

**Stud Protrusion** 1.450 +-0.030

**Non-HPI Items:**

**Non-HPI Spinner:**

**IDS No.:** 175      **Rev.:** 2      **IC Date:** 07/07/2015

**Modifier:** HARTZELL PROPELLER

**Engine Model:** IO-470-C,-J,-K,-N

**Power:** 260 HP @ 2625 RPM

**Placard/Restr:**

**Notes:** IO-470-C: 250 HP @ 2600 RPM; IO-470-J, K: 225 HP @ 2600 RPM

**Startlock Angle:** NA

**Feather/High Angle:** 29.0 +-1.0

**Cwt Angle:**

**Non-HPI Governor:** WOODWARD, FLOTTORP (GARWIN)

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>           | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|------------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | L2F00015           | BHC-L2YF-1BF/F8468AR/SM19    | 1               | A/C            |                          |
| PROPELLER        | L2F00015STP        | L2F00015/SM19/A-2295-P       | 1               | A/C            |                          |
| PROPELLER        | L2F00015STP*1      | L2F00015/SM19/A-2295-P/PLUG  | 1               | A/C            |                          |
| BLADE            | F8468AR            | PCP:BLADE UNIT, ALUM [1,1,1] | 2               | Prop           |                          |
| BLADE            | F8468AR*1          | PCP:BLADE UNIT, ALUM [3,1,1] | 2               | Prop           |                          |
| SPINNER          | A-2295             | SPINNER ASSEMBLY             | 1               | Prop           |                          |
| SPINNER          | A-2295-P           | SPINNER ASSEMBLY             | 1               | Prop           |                          |
| SPIN MTG KIT     | A-2476-19          | SPINNER - MTG KIT            | 1               | Prop           |                          |
| MTG BOLT/STUD    | A-2429-4           | STUD, MOUNTING, 1/2-20       | 6               | Prop           |                          |
| MISC ACCES       | 100612             | PLUG, ENGINE SHAFT           | 1               | A/C            |                          |
| OVERHAUL KIT     | BHC-L2YF-1BF-OH    | O/H KIT                      | 1               | Prop           | For aftermarket use only |

# HARTZELL

## APPLICATION GUIDE 159

BEECH

**Model:** G33  
**Trade Name:** BONANZA  
**Aircraft T.C./STC:** STC-SA818CE  
**Propeller Model:** BHC-L2YF-1BF  
**Propeller T.C.:** P39EA  
**Blade Model(s):** F8468AR  
**Prop Diameter:** 84" TO 82.5"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.8 +/-0.1  
**Stud Protrusion** 1.450 +/-0.030

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 173      **Rev.:** 2      **BC Date:** 07/24/2014

**Modifier:** HARTZELL PROPELLER  
**Engine Model:** IO-470-N  
**Power:** 260 HP @ 2625 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 29.0 +/-1.0  
**Cwt Angle:**

**Non-HPI Governor:** WOODWARD

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>           | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|------------------------------|-----------------|----------------|-----------------|
| BLADE            | F8468AR            | PCP:BLADE UNIT, ALUM [1,1,1] | 2               | Prop           |                 |
| SPINNER          | A-2295             | SPINNER ASSEMBLY             | 1               | Prop           |                 |
| SPIN MTG KIT     | A-2476-19          | SPINNER - MTG KIT            | 1               | Prop           |                 |
| MTG BOLT/STUD    | A-2429-4           | STUD, MOUNTING, 1/2-20       | 6               | Prop           |                 |

# HARTZELL

## APPLICATION GUIDE 159

BEECH

IDS No.: 174      Rev.: 2      IC      Date: 07/16/2015

**Model:** (E,F,G)33, (J,K,M,N,P)35, 35-33, 35-(A,B,C)33

**Modifier:** HARTZELL PROPELLER

**Trade Name:** BONANZA, DEBONAIR

**Engine Model:** IO-470-C,-J,-K;-N

**Aircraft T.C./STC:** STC-SA818CE

**Power:** 260 HP @ 2625 RPM

**Propeller Model:** PHC-L3YF-1RF

**Placard/Restr:**

**Propeller T.C.:** P41EA

**Notes:**

**Blade Model(s):** F8468A-6R

F8468A-6R\*1

**Prop Diameter:** 80.0" TO 78.5"

**Prop Setup:**

**Ref. Radius:** 30

**Startlock Angle:** NA

**Reverse Angle:** NA

**Feather/High Angle:** 33.0 +-1.0

**Low Pitch Angle:** 11.5 +-0.1

**Cwt Angle:**

**Stud Protrusion:** 1.450 +-0.030

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:** WOODWARD

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>           | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|------------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | L3F00020           | PHC-L3YF-1RF/F8468A-6R/SM7   | 1               | A/C            |                          |
| PROPELLER        | L3F00020KD         | PHC-L3YF-1RF/F8468A-6R/SM7   | 1               | A/C            |                          |
| PROPELLER        | L3F00020SKDTP      | L3F00020/SM7/A-2295-1P       | 1               | A/C            |                          |
| PROPELLER        | L3F00020SKDTP*1    | L3F00020/SM7/A-2295-1P/PLUG  | 1               | A/C            |                          |
| PROPELLER        | L3F00020STP        | L3F00020/SM7/A-2295-1P       | 1               | A/C            |                          |
| PROPELLER        | L3F00020STP*1      | L3F00020/SM7/A-2295-1P/PLUG  | 1               | A/C            |                          |
| BLADE            | F8468A-6R          | PCP:BLADE UNIT, ALUM [1,1,1] | 3               | Prop           |                          |
| BLADE            | F8468A-6R*1        | PCP:BLADE UNIT, ALUM [3,1,1] | 3               | Prop           |                          |
| SPINNER          | A-2295-1P          | SPINNER ASSEMBLY             | 1               | Prop           |                          |
| SPIN MTG KIT     | A-2476-7           | SPINNER - MTG KIT            | 1               | Prop           |                          |
| MTG BOLT/STUD    | A-2429-4           | STUD, MOUNTING, 1/2-20       | 6               | Prop           |                          |
| MISC ACCES       | 100612             | PLUG, ENGINE SHAFT           | 1               | A/C            |                          |
| OVERHAUL KIT     | PHC-L3YF-1RF-OH    | O/H KIT                      | 1               | Prop           | For aftermarket use only |

# HARTZELL

## APPLICATION GUIDE

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**BEECH**

**Model:** 33 & 35 SERIES  
**Trade Name:** BONANZA  
**Aircraft T.C./STC:** STC-SA168CH  
**Propeller Model:** PHC-L3YF-1RF  
**Propeller T.C.:** P41EA  
**Blade Model(s):** F8468A-6R  
**Prop Diameter:** 80"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.0 +-0.1  
**Stud Protrusion** 1.450 +-0.030

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 194      **Rev.:** 1      **IC**      **Date:** 07/16/2015

**Modifier:** D'SHANNON PRODUCTS  
**Engine Model:** IO-470-C,-J,-K,-N  
**Power:** 260 HP @ 2625 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 36.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| Item Type     | Item Number     | Description                  | Quantity | Qty Per | Comments                 |
|---------------|-----------------|------------------------------|----------|---------|--------------------------|
| PROPELLER     | L3F00019        | PHC-L3YF-1RF/F8468A-6R/SM7   | 1        | A/C     |                          |
| BLADE         | F8468A-6R       | PCP:BLADE UNIT, ALUM [1,1,1] | 3        | Prop    |                          |
| SPINNER       | A-2295-1        | SPINNER ASSEMBLY             | 1        | Prop    |                          |
| SPIN MTG KIT  | A-2476-7        | SPINNER - MTG KIT            | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2429-4        | STUD, MOUNTING, 1/2-20       | 6        | Prop    |                          |
| OVERHAUL KIT  | PHC-L3YF-1RF-OH | O/H KIT                      | 1        | Prop    | For aftermarket use only |

**BEECH**

**Model:** 33, 35  
**Trade Name:** BONANZA  
**Aircraft T.C./STC:** SA01561CH  
**Propeller Model:** PHC-L3YF-1RF  
**Propeller T.C.:** P41EA  
**Blade Model(s):** F8068-2  
F8068-2\*1  
**Prop Diameter:** 82" TO 78"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.3 +-0.1  
**Stud Protrusion** 1.450 +-0.030

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 1852      **Rev.:** 1      **IC**      **Date:** 07/16/2015

**Modifier:** D'SHANNON PRODUCTS  
**Engine Model:** IO-470-C, -N  
**Power:** 260 HP @ 2625 RPM  
**Placard/Restr:**  
**Notes:** Limited applicability. Refer to STC.

**Startlock Angle:** NA  
**Feather/High Angle:** 36.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:** WOODWARD

### Hartzell Approved Items:

| Item Type     | Item Number     | Description                  | Quantity | Qty Per | Comments                 |
|---------------|-----------------|------------------------------|----------|---------|--------------------------|
| PROPELLER     | L3F00035        | PHC-L3YF-1RF/F8068-2/SM7     | 1        | A/C     |                          |
| PROPELLER     | L3F00035KD      | PHC-L3YF-1RF/F8068-2/SM7     | 1        | A/C     |                          |
| PROPELLER     | L3F00070        | PHC-L3YF-1RF/F8068-2[*1]/SM7 | 1        | A/C     |                          |
| PROPELLER     | L3F00070KD      | PHC-L3YF-1RF/F8068-2[*1]/SM7 | 1        | A/C     |                          |
| BLADE         | F8068-2         | PCP:BLADE UNIT, ALUM [1,1,5] | 3        | Prop    |                          |
| BLADE         | F8068-2*1       | PCP:BLADE UNIT, ALUM [6,1,5] | 3        | Prop    |                          |
| SPINNER       | A-2295-1P       | SPINNER ASSEMBLY             | 1        | Prop    |                          |
| SPIN MTG KIT  | A-2476-7        | SPINNER - MTG KIT            | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2429-4        | STUD, MOUNTING, 1/2-20       | 6        | Prop    |                          |
| OVERHAUL KIT  | PHC-L3YF-1RF-OH | O/H KIT                      | 1        | Prop    | For aftermarket use only |

# HARTZELL

## APPLICATION GUIDE

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BEECH

IDS No.: 1936 Rev.: 1 IC Date: 07/16/2015

**Model:** 33, 35  
**Trade Name:** BONANZA  
**Aircraft T.C./STC:** SA01561CH  
**Propeller Model:** PHC-L3YF-1RF  
**Propeller T.C.:** P41EA  
**Blade Model(s):** F8068  
                           F8068\*1  
                           F8068-2  
                           F8068-2\*1  
**Prop Diameter:** 82" TO 78"

**Modifier:** D'SHANNON PRODUCTS  
**Engine Model:** IO-470-K  
**Power:** 225 HP @ 2600 RPM  
**Placard/Restr:**  
**Notes:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 11.1 +-0.2  
**Stud Protrusion** 1.450 +-0.030

**Startlock Angle:** NA  
**Feather/High Angle:** 36.0 +-1.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:** WOODWARD

**Hartzell Approved Items:**

| Item Type     | Item Number     | Description                  | Quantity | Qty Per | Comments                 |
|---------------|-----------------|------------------------------|----------|---------|--------------------------|
| PROPELLER     | L3F00031        | PHC-L3YF-1RF/F8068/SM7       | 1        | A/C     |                          |
| PROPELLER     | L3F00036        | PHC-L3YF-1RF/F8068-2/SM7     | 1        | A/C     |                          |
| PROPELLER     | L3F00051        | PHC-L3YF-1RF/F8068[*1]/SM7   | 1        | A/C     |                          |
| PROPELLER     | L3F00071        | PHC-L3YF-1RF/F8068-2[*1]/SM7 | 1        | A/C     |                          |
| BLADE         | F8068           | PCP:BLADE UNIT, ALUM [1,1,5] | 3        | Prop    |                          |
| BLADE         | F8068*1         | PCP:BLADE UNIT, ALUM [6,1,5] | 3        | Prop    |                          |
| BLADE         | F8068-2         | PCP:BLADE UNIT, ALUM [1,1,5] | 3        | Prop    |                          |
| BLADE         | F8068-2*1       | PCP:BLADE UNIT, ALUM [6,1,5] | 3        | Prop    |                          |
| SPINNER       | A-2295-1P       | SPINNER ASSEMBLY             | 1        | Prop    |                          |
| SPIN MTG KIT  | A-2476-7        | SPINNER - MTG KIT            | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2429-4        | STUD, MOUNTING, 1/2-20       | 6        | Prop    |                          |
| OVERHAUL KIT  | PHC-L3YF-1RF-OH | O/H KIT                      | 1        | Prop    | For aftermarket use only |

# HARTZELL

## APPLICATION GUIDE

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BEECH

**Model:** 33,35,36 SERIES (SEE NOTE)  
**Trade Name:** BONANZA  
**Aircraft T.C./STC:** SA01668CH  
**Propeller Model:** PHC-L3YF-1RF  
**Propeller T.C.:** P41EA  
**Blade Model(s):** F8068  
**Prop Diameter:** 82" TO 78"

**IDS No.:** 2498      **Rev.:** 1      **IC Date:** 07/16/2015

**Modifier:** D'SHANNON PRODUCTS

**Engine Model:** IO-550-B

**Power:** 300 HP @ 2700 RPM

**Placard/Restr:**

**Notes:** Limited to the following aircraft with STC  
SA2200SW: (A-V)35; V35(A,B); 35-33; 35-  
(A-C)33; 35-C33A; (E-G)33; (E,F)33(A,C);  
36; A36; (A,B)36TC.

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** 12.5 +-0.1  
**Stud Protrusion** 1.450 +- .030

**Startlock Angle:**

**Feather/High Angle:** 36.0 +-1.0

**Cwt Angle:**

### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>           | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|------------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | L3F00032           | PHC-L3YF-1RF/F8068/SM7       | 1               | A/C            |                          |
| BLADE            | F8068              | PCP:BLADE UNIT, ALUM [1,1,5] | 3               | Prop           |                          |
| SPINNER          | A-2295-1P          | SPINNER ASSEMBLY             | 1               | Prop           |                          |
| SPIN MTG KIT     | A-2476-7           | SPINNER - MTG KIT            | 1               | Prop           |                          |
| MTG BOLT/STUD    | A-2429-4           | STUD, MOUNTING, 1/2-20       | 6               | Prop           |                          |
| OVERHAUL KIT     | PHC-L3YF-1RF-OH    | O/H KIT                      | 1               | Prop           | For aftermarket use only |



# HARTZELL

## APPLICATION GUIDE

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BEECH

IDS No.: 1977 Rev.: 5 IC Date: 07/16/2015

**Model:** 33, 35, 36 (SEE NOTES)  
**Trade Name:** BONANZA  
**Aircraft T.C./STC:** SA10135SC  
**Propeller Model:** PHC-C3YF-1RF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** F8068\*4  
**Prop Diameter:** 82" TO 78"

**Modifier:** HARTZELL PROPELLER  
**Engine Model:** IO-520-B, BA, BB; IO-550-B  
**Power:** 300 HP @ 2700 RPM  
**Placard/Restr:**

**Notes:** S35, V35, V35A, V35B, 35-C33A, E33A, E33C, F33A, F33C, 36 & A36

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** 12.0 +-0.2  
**Stud Protrusion** 1.450 +- .030

**Startlock Angle:**  
**Feather/High Angle:** 35.5 +-1.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type     | Item Number     | Description                    | Quantity | Qty Per | Comments                                    |
|---------------|-----------------|--------------------------------|----------|---------|---|
| PROPELLER     | C3F00007        | PHC-C3YF-1RF/F8068[*4]/SM7     | 1        | A/C     |   |
| PROPELLER     | C3F00007KD      | PHC-C3YF-1RF/F8068[*4]/SM7     | 1        | A/C     |   |
| PROPELLER     | C3F00007S       | PHC-C3YF-1RF/F8068*4/SM7/+SPIN | 1        | A/C     |   |
| PROPELLER     | C3F00007SKD     | PHC-C3YF-1RF/F8068*4/SM7/+SPIN | 1        | A/C     |   |
| PROPELLER     | C3F00007SKDTP   | C3F00007S/SM7/A-2295-1P        | 1        | A/C     |   |
| PROPELLER     | C3F00007STP     | C3F00007S/SM7/A-2295-1P        | 1        | A/C     |   |
| BLADE         | F8068*4         | PCP:BLADE UNIT, ALUM [6,16,5]  | 3        | Prop    |   |
| SPINNER       | A-2295-1P       | SPINNER ASSEMBLY               | 1        | Prop    |   |
| SPINNER       | A-2295-2P       | SPINNER ASSEMBLY               | 1        | Prop    |   |
| SPIN MTG KIT  | A-2476-7        | SPINNER - MTG KIT              | 1        | Prop    |   |
| MTG BOLT/STUD | A-2429-4        | STUD, MOUNTING, 1/2-20         | 6        | Prop    | Use w/E-7154-2R Hub Only                    |
| MTG BOLT/STUD | A-2429-7        | STUD, MOUNTING, 1/2-20         | 6        | Prop    | Use with E-7154-12R or E-7154-42R Hubs Only |
| OVERHAUL KIT  | PHC-C3YF-1RF*1  | O/H KIT W/O SLIMSERTS          | 1        | Prop    | For aftermarket use only                    |
| OVERHAUL KIT  | PHC-C3YF-1RF-OH | O/H KIT                        | 1        | Prop    | For aftermarket use only                    |

# HARTZELL

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### BEECH

**Model:** 33,35,36 SERIES (SEE NOTES)  
**Trade Name:** BONANZA  
**Aircraft T.C./STC:** SA01668CH  
**Propeller Model:** PHC-C3YF-1RF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** F8068  
**Prop Diameter:** 82" TO 78"

**IDS No.:** 2499      **Rev.:** 3      **IC Date:** 03/18/2016

**Modifier:** D'SHANNON PRODUCTS

**Engine Model:** IO-550-B

**Power:** 300 HP @ 2700 RPM

**Placard/Restr:**

**Notes:** Limited to the following aircraft with STC  
 SA2200SW: (A-V)35; V35(A,B); 35-33; 35-  
 (A-C)33; 35-C33A; (E-G)33; (E,F)33(A,C);  
 36; A36; (A,B)36TC.

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** 12.5 +-0.1  
**Stud Protrusion** 1.450 +- .030

**Startlock Angle:**

**Feather/High Angle:** 36.0 +-1.0

**Cwt Angle:**

#### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:**

#### Hartzell Approved Items:

| Item Type     | Item Number     | Description                  | Quantity | Qty Per | Comments                                   |
|---------------|-----------------|------------------------------|----------|---------|--|
| PROPELLER     | C3F00034        | PHC-C3YF-1RF/F8068/SM7       | 1        | A/C     |  |
| BLADE         | F8068           | PCP:BLADE UNIT, ALUM [1,1,5] | 3        | Prop    |  |
| SPINNER       | A-2295-1P       | SPINNER ASSEMBLY             | 1        | Prop    |  |
| SPIN MTG KIT  | A-2476-7        | SPINNER - MTG KIT            | 1        | Prop    |  |
| MTG BOLT/STUD | A-2429-4        | STUD, MOUNTING, 1/2-20       | 6        | Prop    | Use w/E-7154-2R Hub and D-3251-8R Hub Only |
| MTG BOLT/STUD | A-2429-7        | STUD, MOUNTING, 1/2-20       | 6        | Prop    | Use with E-7154-12R & E-7154-42R hubs only |
| OVERHAUL KIT  | PHC-C3YF-1RF*1  | O/H KIT W/O SLIMSERTS        | 1        | Prop    | For aftermarket use only                   |
| OVERHAUL KIT  | PHC-C3YF-1RF-OH | O/H KIT                      | 1        | Prop    | For aftermarket use only                   |

### BEECH

**Model:** 35-C33A, E33A, E33C, F33A, F33C  
**Trade Name:** BONANZA  
**Aircraft T.C./STC:** STC-SA785CE  
**Propeller Model:** BHC-C2YF-1BF  
**Propeller T.C.:** P-920  
**Blade Model(s):** F8468AR  
**Prop Diameter:** 84" TO 82"

**IDS No.:** 178      **Rev.:** 3      **IC Date:** 07/07/2015

**Modifier:** HARTZELL PROPELLER

**Engine Model:** IO-520-BA,-BB

**Power:** 285 HP @ 2700 RPM

**Placard/Restr:**

**Notes:**

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.0 +-0.2  
**Stud Protrusion** 1.450 +-0.030

**Startlock Angle:** NA

**Feather/High Angle:** 30.0 +/-1.0

**Cwt Angle:**

#### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:** WOODWARD, MCCAULEY

#### Hartzell Approved Items:

| Item Type     | Item Number     | Description                  | Quantity | Qty Per | Comments                 |
|---------------|-----------------|------------------------------|----------|---------|--------------------------|
| PROPELLER     | C2F00065        | BHC-C2YF-1BF/F8468AR/SM19    | 1        | A/C     |                          |
| BLADE         | F8468AR         | PCP:BLADE UNIT, ALUM [1,1,1] | 2        | Prop    |                          |
| SPINNER       | A-2295          | SPINNER ASSEMBLY             | 1        | Prop    |                          |
| SPIN MTG KIT  | A-2476-19       | SPINNER - MTG KIT            | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2429-4        | STUD, MOUNTING, 1/2-20       | 6        | Prop    |                          |
| OVERHAUL KIT  | BHC-C2YF-1BF-OH | O/H KIT                      | 1        | Prop    | For aftermarket use only |

# HARTZELL

## APPLICATION GUIDE 159

**BEECH**

**Model:** 35-C33A, E33A, F33(A,C), G33,36, A36, S35, V35(A,B)

**Trade Name:** BONANZA

**Aircraft T.C./STC:** SA5223NM

**Propeller Model:** PHC-C3YF-1R(F)

**Propeller T.C.:** P25EA

**Blade Model(s):** F8068  
F8068\*5

**Prop Diameter:** 82" to 78"

**Prop Setup:**

**Ref. Radius:** 30

**Reverse Angle:** NA

**Low Pitch Angle:** 12.0 +-0.2

**Stud Protrusion** 1.450 +-0.030

**Non-HPI Items:**

**Non-HPI Spinner:**

**IDS No.:** 1787      **Rev.:** 4      **IC Date:** 10/04/2022

**Modifier:** ENGINE TECHNOLOGIES INC.

**Engine Model:** IO-520-B,-BA,-BB/IO-550-B

**Power:** 285 HP @ 2700 RPM

**Placard/Restr:** None.

**Notes:** Engine Ratings Note: IO-550-B (300hp)

**Startlock Angle:** NA

**Feather/High Angle:** 37.0 +-1.0

**Cwt Angle:**

**Non-HPI Governor:** WOODWARD, MCCAULEY

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>            | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>                                |
|------------------|--------------------|-------------------------------|-----------------|----------------|--|
| PROPELLER        | C3F00005           | PHC-C3YF-1RF/F8068/SM30       | 1               | A/C            |  |
| PROPELLER        | C3F00005KD         | PHC-C3YF-1RF/F8068/SM30       | 1               | A/C            |  |
| PROPELLER        | C3F00011           | PHC-C3YF-1RF/F8068*5/SM30     | 1               | A/C            |  |
| BLADE            | F8068              | PCP:BLADE UNIT, ALUM [1,1,5]  | 3               | Prop           |  |
| BLADE            | F8068*5            | PCP:BLADE UNIT, ALUM [3,1,11] | 3               | Prop           | F8068*5 supersedes F8068*2 on this application |
| SPINNER          | A-2295-1           | SPINNER ASSEMBLY              | 1               | Prop           |  |
| SPIN MTG KIT     | A-2476-30          | SPINNER - MTG KIT             | 1               | Prop           |  |
| MTG BOLT/STUD    | A-2429-4           | STUD, MOUNTING, 1/2-20        | 6               | Prop           | Use w/E-7154-2R Hub Only                       |
| MTG BOLT/STUD    | A-2429-7           | STUD, MOUNTING, 1/2-20        | 6               | Prop           | Use with E-7154-12R or E-7154-42R Hubs Only    |
| OVERHAUL KIT     | PHC-C3YF-1RF*1     | O/H KIT W/O SLIMSERTS         | 1               | Prop           | For aftermarket use only                       |
| OVERHAUL KIT     | PHC-C3YF-1RF-OH    | O/H KIT                       | 1               | Prop           | For aftermarket use only                       |

# HARTZELL

## APPLICATION GUIDE

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BEECH

IDS No.: 180 Rev.: 3 IC Date: 07/16/2015

**Model:** 35-C33A, E33C, F33(A,C), 36, A36, S35, V35(A,B)

**Modifier:** HARTZELL PROPELLER

**Trade Name:** BONANZA

**Engine Model:** IO-520-B,-BA,-BB

**Aircraft T.C./STC:** STC-SA785CE

**Power:** 285 HP @ 2700 RPM

**Propeller Model:** PHC-C3YF-1R(F)

**Placard/Restr:**

**Propeller T.C.:** P25EA

**Notes:**

**Blade Model(s):** F8468-6R

F8468A-6R

F8468A-6R\*1

**Prop Diameter:** 80.0" TO 78.0"

**Prop Setup:**

**Ref. Radius:** 30

**Startlock Angle:** NA

**Reverse Angle:** NA

**Feather/High Angle:** 33.0 +-1.0

**Low Pitch Angle:** 12.0 +-0.2

**Cwt Angle:**

**Stud Protrusion** 1.450 +-0.030

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:** WOODWARD, MCCAULEY

**Hartzell Approved Items:**

| Item Type     | Item Number     | Description                  | Quantity | Qty Per | Comments                                    |
|---------------|-----------------|------------------------------|----------|---------|---|
| PROPELLER     | C3F00120        | PHC-C3YF-1RF/F8468A-6R/SM30  | 1        | A/C     |   |
| PROPELLER     | C3F00120KD      | PHC-C3YF-1RF/F8468A-6R/SM30  | 1        | A/C     |   |
| PROPELLER     | C3F00120SKDTP   | C3F00120/SM30/A-2295-1P      | 1        | A/C     |   |
| PROPELLER     | C3F00120STP     | C3F00120/SM30/A-2295-1P      | 1        | A/C     |   |
| BLADE         | F8468-6R        | PCP:BLADE UNIT, ALUMINUM     | 3        | Prop    |   |
| BLADE         | F8468A-6R       | PCP:BLADE UNIT, ALUM [1,1,1] | 3        | Prop    |   |
| BLADE         | F8468A-6R*1     | PCP:BLADE UNIT, ALUM [3,1,1] | 3        | Prop    |   |
| SPINNER       | A-2295-1P       | SPINNER ASSEMBLY             | 1        | Prop    |   |
| SPIN MTG KIT  | A-2476-30       | SPINNER - MTG KIT            | 1        | Prop    |   |
| MTG BOLT/STUD | A-2429-4        | STUD, MOUNTING, 1/2-20       | 6        | Prop    | Use w/E-7154-2R Hub Only                    |
| MTG BOLT/STUD | A-2429-7        | STUD, MOUNTING, 1/2-20       | 6        | Prop    | Use with E-7154-12R or E-7154-42R Hubs Only |
| OVERHAUL KIT  | PHC-C3YF-1RF*1  | O/H KIT W/O SLIMSERTS        | 1        | Prop    | For aftermarket use only                    |
| OVERHAUL KIT  | PHC-C3YF-1RF-OH | O/H KIT                      | 1        | Prop    | For aftermarket use only                    |

# HARTZELL

## APPLICATION GUIDE

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**BEECH**

**Model:** 35-C33A, S35, V35(A,B)  
**Trade Name:** BONANZA  
**Aircraft T.C./STC:** STC-SA450CH  
**Propeller Model:** PHC-C3YF-1RF  
**Propeller T.C.:** P25EA

**Blade Model(s):** F7691  
**Prop Diameter:** 78.0" TO 77.0"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.8 +-0.1  
**Stud Protrusion** 1.450 +-0.030

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 1177      **Rev.:** 1      **D**      **Date:** 10/07/2010

**Modifier:** D'SHANNON PRODUCTS  
**Engine Model:** IO-520-B, -BA, -BB  
**Power:** 285 HP @ 2700 RPM  
**Placard/Restr:** Normal and Utility Categories: Do not exceed 20 inches of manifold pressure below 2250 RPM

### **Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 34.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:** WOODWARD

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>           | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>                            |
|------------------|--------------------|------------------------------|-----------------|----------------|--|
| BLADE            | F7691              | PCP:BLADE UNIT, ALUM [1,1,5] | 3               | Prop           |  |
| SPINNER          | A-2295-1P          | SPINNER ASSEMBLY             | 1               | Prop           |  |
| SPIN MTG KIT     | A-2476-7           | SPINNER - MTG KIT            | 1               | Prop           |  |
| MTG BOLT/STUD    | A-2429-4           | STUD, MOUNTING, 1/2-20       | 6               | Prop           | Use w/E-7154-2R Hub Only                   |
| MTG BOLT/STUD    | A-2429-7           | STUD, MOUNTING, 1/2-20       | 6               | Prop           | Use with E-7154-12R & E-7154-42R hubs only |

**BEECH**

**Model:** E33(A,C), F33(A,C)  
**Trade Name:** BONANZA  
**Aircraft T.C./STC:** STC-SA450CH  
**Propeller Model:** PHC-C3YF-1RF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** F7691  
**Prop Diameter:** 78.0" TO 77.0"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.8 +-0.1  
**Stud Protrusion** 1.450 +-0.030

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 1176      **Rev.:** -      **DM**      **Date:** 02/20/1997

**Modifier:** D'SHANNON PRODUCTS  
**Engine Model:** IO-520-B, -BA, -BB  
**Power:** 285 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 34.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:** WOODWARD

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>           | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|------------------------------|-----------------|----------------|-----------------|
| BLADE            | F7691              | PCP:BLADE UNIT, ALUM [1,1,5] | 3               | Prop           |                 |
| SPINNER          | A-2295-1P          | SPINNER ASSEMBLY             | 1               | Prop           |                 |
| SPIN MTG KIT     | A-2476-7           | SPINNER - MTG KIT            | 1               | Prop           |                 |
| MTG BOLT/STUD    | A-2429-4           | STUD, MOUNTING, 1/2-20       | 6               | Prop           |                 |

# HARTZELL

## APPLICATION GUIDE

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**BEECH**

**Model:** E33(A,C), F33(A,C), G33  
**Trade Name:** BONANZA  
**Aircraft T.C./STC:** STC-SA2200SW  
**Propeller Model:** PHC-C3YF-1RF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** F7691  
**Prop Diameter:** 78.0" TO 77.0"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.8 +-0.1  
**Stud Protrusion** 1.450 +-0.030

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 1243      **Rev.:** -      **DM Date:** 02/20/1997

**Modifier:** D'SHANNON PRODUCTS  
**Engine Model:** IO-520-B, -BA, -BB  
**Power:** 285 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 34.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:** WOODWARD

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>           | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|------------------------------|-----------------|----------------|-----------------|
| BLADE            | F7691              | PCP:BLADE UNIT, ALUM [1,1,5] | 3               | Prop           |                 |
| SPINNER          | A-2295-1P          | SPINNER ASSEMBLY             | 1               | Prop           |                 |
| SPIN MTG KIT     | A-2476-7           | SPINNER - MTG KIT            | 1               | Prop           |                 |
| MTG BOLT/STUD    | A-2429-4           | STUD, MOUNTING, 1/2-20       | 6               | Prop           |                 |

**BEECH**

**Model:** E33(A,C), F33(A,C), G33  
**Trade Name:** BONANZA  
**Aircraft T.C./STC:** STC-SA2200SW  
**Propeller Model:** PHC-C3YF-1RF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** F8468A-6R  
**Prop Diameter:** 80.0" TO 78.0"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.0 +-0.1  
**Stud Protrusion** 1.450 +-0.030

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 1238      **Rev.:** -      **DM Date:** 02/20/1997

**Modifier:** D'SHANNON PRODUCTS  
**Engine Model:** IO-520-B, -BA, -BB  
**Power:** 285 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 36.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:** WOODWARD

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>           | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|------------------------------|-----------------|----------------|-----------------|
| BLADE            | F8468A-6R          | PCP:BLADE UNIT, ALUM [1,1,1] | 3               | Prop           |                 |
| SPINNER          | A-2295-1P          | SPINNER ASSEMBLY             | 1               | Prop           |                 |
| SPIN MTG KIT     | A-2476-7           | SPINNER - MTG KIT            | 1               | Prop           |                 |
| MTG BOLT/STUD    | A-2429-4           | STUD, MOUNTING, 1/2-20       | 6               | Prop           |                 |

# HARTZELL

## APPLICATION GUIDE

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BEECH

IDS No.: 196      Rev.: 1      IC      Date: 07/16/2015

**Model:** E33(A,C), F33(A,C), G33  
**Trade Name:** BONANZA  
**Aircraft T.C./STC:** STC-SA2200SW  
**Propeller Model:** PHC-L3YF-1RF  
**Propeller T.C.:** P41EA  
**Blade Model(s):** F8468A-6R  
**Prop Diameter:** 80.0" TO 78.0"

**Modifier:** D'SHANNON PRODUCTS  
**Engine Model:** IO-520-B,-BA,-BB  
**Power:** 285 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.0 +-0.1  
**Stud Protrusion** 1.450 +-0.030

**Startlock Angle:** NA  
**Feather/High Angle:** 36.0 +-1.0  
**Cwt Angle:**

### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:** WOODWARD

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>           | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|------------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | L3F00019           | PHC-L3YF-1RF/F8468A-6R/SM7   | 1               | A/C            |                          |
| BLADE            | F8468A-6R          | PCP:BLADE UNIT, ALUM [1,1,1] | 3               | Prop           |                          |
| SPINNER          | A-2295-1P          | SPINNER ASSEMBLY             | 1               | Prop           |                          |
| SPIN MTG KIT     | A-2476-7           | SPINNER - MTG KIT            | 1               | Prop           |                          |
| MTG BOLT/STUD    | A-2429-4           | STUD, MOUNTING, 1/2-20       | 6               | Prop           |                          |
| OVERHAUL KIT     | PHC-L3YF-1RF-OH    | O/H KIT                      | 1               | Prop           | For aftermarket use only |

# HARTZELL

## APPLICATION GUIDE 159

BEECH

**Model:** 33, 35, 36  
**Trade Name:** BONANZA  
**Aircraft T.C./STC:** STC-SA01548CH  
**Propeller Model:** PHC-C3YF-1RF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** F8068  
 F8068\*1  
 F8068\*5  
**Prop Diameter:** 82" TO 78"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.3 +-0.1  
**Stud Protrusion** 1.450 +-0.030

**Non-HPI Items:**

**Non-HPI Spinner:**

**IDS No.:** 1809      **Rev.:** 3      **IC Date:** 07/16/2015

**Modifier:** D'SHANNON PRODUCTS  
**Engine Model:** IO-550-B, IO-520-B, BA, BB  
**Power:** 300 HP @ 2700 RPM  
**Placard/Restr:**

**Notes:** Engine Ratings Note: IO-520-B,BA,BB (285hp) See IDS #1941 for PHC-L3YF Propeller under same STC. Refer to STC for model applicability.

**Startlock Angle:** NA  
**Feather/High Angle:** 36.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:** WOODWARD

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>            | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>                             |
|------------------|--------------------|-------------------------------|-----------------|----------------|---|
| PROPELLER        | C3F00006           | PHC-C3YF-1RF/F8068/SM7        | 1               | A/C            |   |
| PROPELLER        | C3F00006KD         | PHC-C3YF-1RF/F8068/SM7        | 1               | A/C            |   |
| PROPELLER        | C3F00036           | PHC-C3YF-1RF/F8068[*1]/SM7    | 1               | A/C            |   |
| PROPELLER        | C3F00036KD         | PHC-C3YF-1RF/F8068[*1]/SM7    | 1               | A/C            |   |
| PROPELLER        | C3F01905           | PHC-C3YF-1RF/F8068[*5]/SM7    | 1               | A/C            |   |
| BLADE            | F8068              | PCP:BLADE UNIT, ALUM [1,1,5]  | 3               | Prop           |   |
| BLADE            | F8068*1            | PCP:BLADE UNIT, ALUM [6,1,5]  | 3               | Prop           |   |
| BLADE            | F8068*5            | PCP:BLADE UNIT, ALUM [3,1,11] | 3               | Prop           |   |
| SPINNER          | A-2295-1P          | SPINNER ASSEMBLY              | 1               | Prop           |   |
| SPIN MTG KIT     | A-2476-7           | SPINNER - MTG KIT             | 1               | Prop           |   |
| MTG BOLT/STUD    | A-2429-4           | STUD, MOUNTING, 1/2-20        | 6               | Prop           | Use w/E-7154-2R Hub Only                    |
| MTG BOLT/STUD    | A-2429-7           | STUD, MOUNTING, 1/2-20        | 6               | Prop           | Use with E-7154-12R or E-7154-42R Hubs Only |
| OVERHAUL KIT     | PHC-C3YF-1RF*1     | O/H KIT W/O SLIMSERTS         | 1               | Prop           | For aftermarket use only                    |
| OVERHAUL KIT     | PHC-C3YF-1RF-OH    | O/H KIT                       | 1               | Prop           | For aftermarket use only                    |



# HARTZELL

## APPLICATION GUIDE 159

BEECH

IDS No.: 2759 Rev.: 4 IC Date: 07/16/2015

**Model:** 33, 35, 36 (See Notes)  
**Trade Name:** BONANZA  
**Aircraft T.C./STC:** SA02556CH-D  
**Propeller Model:** PHC-C3YF-1RF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** F8068K\*2  
**Prop Diameter:** 82" TO 80"

**Modifier:** HARTZELL PROPELLER  
**Engine Model:** IO-520B, BA, BB, IO-550-B  
**Power:** 300 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:** V35B, F33A, A36 & G36

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** 12.0 +-0.2  
**Stud Protrusion** 1.450 +-0.030

**Startlock Angle:**  
**Feather/High Angle:** 35.5 +-1.0  
**Cwt Angle:**

### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| Item Type      | Item Number     | Description                   | Quantity | Qty Per | Comments                                   |
|----------------|-----------------|-------------------------------|----------|---------|--|
| PROPELLER      | C3F02000        | PHC-C3YF-1RF/F8068K[*2]/SM7   | 0        |         |  |
| PROPELLER      | C3F02000KD      | PHC-C3YF-1RF/F8068K[*2]/SM7   | 1        | A/C     |  |
| BLADE          | F8068K*2        | PCP:BLADE UNIT, ALUM [6,16,5] | 3        | Blade   |  |
| SPINNER        | A-2295-2        | SPINNER ASSEMBLY              | 1        | A/C     |  |
| SPINNER        | A-2295-2P       | SPINNER ASSEMBLY              | 1        | A/C     |  |
| SPIN MTG KIT   | A-2476-7        | SPINNER - MTG KIT             | 1        | Prop    |  |
| DE-ICER        | 102657          | DE-ICE BOOT                   | 1        | Blade   |  |
| DE-ICE KIT PR  | 102544-1        | DE-ICE KIT (ONE PROP)         | 1        | A/C     |  |
| DE-ICE KIT A/F | 102544-2        | AIRFRAME DE-ICE KIT           | 1        | A/C     | W/OEM HPI/Goodrich AF De-Ice               |
| DE-ICE KIT A/F | 102544-3        | AIRFRAME DE-ICE KIT           | 1        | A/C     | W/OEM AF McCaulley De-ice                  |
| MTG BOLT/STUD  | A-2429-4        | STUD, MOUNTING, 1/2-20        | 6        | Prop    | Use with E7154-2R Hub Only                 |
| MTG BOLT/STUD  | A-2429-7        | STUD, MOUNTING, 1/2-20        | 6        | Prop    | Use with E-7154-12R & E-7154-42R hubs only |
| OVERHAUL KIT   | PHC-C3YF-1RF*1  | O/H KIT W/O SLIMSERTS         | 1        | Prop    | For aftermarket use only                   |
| OVERHAUL KIT   | PHC-C3YF-1RF-OH | O/H KIT                       | 1        | Prop    | For aftermarket use only                   |

# HARTZELL

## APPLICATION GUIDE

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BEECH

**Model:** 35, 33  
**Trade Name:** BONANZA  
**Aircraft T.C./STC:** STC-SA01548CH  
**Propeller Model:** PHC-L3YF-1RF  
**Propeller T.C.:** P41EA  
**Blade Model(s):** F8068  
F8068\*1  
**Prop Diameter:** 82" TO 78"

**IDS No.:** 1941 **Rev.:** 1 **IC Date:** 07/16/2015

**Modifier:** D'SHANNON PRODUCTS  
**Engine Model:** IO-550-B, IO-520-B, BA, BB  
**Power:** 300 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:** Engine Ratings Note: IO-520-B,BA,BB (285hp) See IDS #1809 for PHC-C3YF Propellers under same STC. Applicable to certain S/N aircraft. See STC.

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.3 +-0.1  
**Stud Protrusion:** 1.450 +-0.030

**Startlock Angle:** NA  
**Feather/High Angle:** 36.0 +-1.0  
**Cwt Angle:**

### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:** WOODWARD

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>           | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|------------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | L3F00030           | PHC-L3YF-1RF/F8068/SM7       | 1               | A/C            |                          |
| PROPELLER        | L3F00030KD         | PHC-L3YF-1RF/F8068/SM7       | 1               | A/C            |                          |
| PROPELLER        | L3F00050           | PHC-L3YF-1RF/F8068[*1]/SM7   | 1               | A/C            |                          |
| PROPELLER        | L3F00050KD         | PHC-L3YF-1RF/F8068[*1]/SM7   | 1               | A/C            |                          |
| BLADE            | F8068              | PCP:BLADE UNIT, ALUM [1,1,5] | 3               | Prop           |                          |
| BLADE            | F8068*1            | PCP:BLADE UNIT, ALUM [6,1,5] | 3               | Prop           |                          |
| SPINNER          | A-2295-1P          | SPINNER ASSEMBLY             | 1               | Prop           |                          |
| SPIN MTG KIT     | A-2476-7           | SPINNER - MTG KIT            | 1               | Prop           |                          |
| MTG BOLT/STUD    | A-2429-4           | STUD, MOUNTING, 1/2-20       | 6               | Prop           |                          |
| OVERHAUL KIT     | PHC-L3YF-1RF-OH    | O/H KIT                      | 1               | Prop           | For aftermarket use only |

# HARTZELL

## APPLICATION GUIDE

159

**BEECH**

**Model:** E33(A,C), F33(A,C), G33  
**Trade Name:** BONANZA  
**Aircraft T.C./STC:** STC-SA2200SW  
**Propeller Model:** PHC-L3YF-1RF  
**Propeller T.C.:** P41EA  
**Blade Model(s):** F8468A-6R  
**Prop Diameter:** 80.0" TO 78.0"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.0 +-0.1  
**Stud Protrusion** 1.450 +-0.030

**Non-HPI Items:**

**Non-HPI Spinner:**

**IDS No.:** 1233      **Rev.:** 1      **IC Date:** 07/16/2015

**Modifier:** D'SHANNON PRODUCTS  
**Engine Model:** IO-550-B  
**Power:** 300 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 36.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:** WOODWARD

**Hartzell Approved Items:**

| Item Type     | Item Number     | Description                  | Quantity | Qty Per | Comments                 |
|---------------|-----------------|------------------------------|----------|---------|--------------------------|
| PROPELLER     | L3F00021        | PHC-L3YF-1RF/F8468A-6R/SM7   | 1        | A/C     |                          |
| BLADE         | F8468A-6R       | PCP:BLADE UNIT, ALUM [1,1,1] | 3        | Prop    |                          |
| SPINNER       | A-2295-1P       | SPINNER ASSEMBLY             | 1        | Prop    |                          |
| SPIN MTG KIT  | A-2476-7        | SPINNER - MTG KIT            | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2429-4        | STUD, MOUNTING, 1/2-20       | 6        | Prop    |                          |
| OVERHAUL KIT  | PHC-L3YF-1RF-OH | O/H KIT                      | 1        | Prop    | For aftermarket use only |

**BEECH**

**Model:** E33(A,C), F33(A,C), G33  
**Trade Name:** BONANZA  
**Aircraft T.C./STC:** STC-SA2200SW  
**Propeller Model:** PHC-C3YF-1RF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** F8468A-6R  
**Prop Diameter:** 80.0" TO 78.0"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.0 +-0.1  
**Stud Protrusion** 1.450 +-0.030

**Non-HPI Items:**

**Non-HPI Spinner:**

**IDS No.:** 195      **Rev.:** 2      **IC Date:** 07/16/2015

**Modifier:** D'SHANNON PRODUCTS  
**Engine Model:** IO-550-B  
**Power:** 300 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 36.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:** WOODWARD

**Hartzell Approved Items:**

| Item Type     | Item Number     | Description                  | Quantity | Qty Per | Comments                                    |
|---------------|-----------------|------------------------------|----------|---------|---|
| PROPELLER     | C3F00121        | PHC-C3YF-1RF/F8468A-6R/SM7   | 1        | A/C     |   |
| BLADE         | F8468A-6R       | PCP:BLADE UNIT, ALUM [1,1,1] | 3        | Prop    |   |
| SPINNER       | A-2295-1P       | SPINNER ASSEMBLY             | 1        | Prop    |   |
| SPIN MTG KIT  | A-2476-7        | SPINNER - MTG KIT            | 1        | Prop    |   |
| MTG BOLT/STUD | A-2429-4        | STUD, MOUNTING, 1/2-20       | 6        | Prop    | USE WITH E-7154-2R HUB ONLY                 |
| MTG BOLT/STUD | A-2429-7        | STUD, MOUNTING, 1/2-20       | 6        | Prop    | Use with E-7154-12R or E-7154-42R Hubs Only |
| OVERHAUL KIT  | PHC-C3YF-1RF*1  | O/H KIT W/O SLIMSERTS        | 1        | Prop    | For aftermarket use only                    |
| OVERHAUL KIT  | PHC-C3YF-1RF-OH | O/H KIT                      | 1        | Prop    | For aftermarket use only                    |

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**BEECH**

**Model:** E33(A,C), F33(A,C), G33  
**Trade Name:** BONANZA  
**Aircraft T.C./STC:** STC-SA2200SW  
**Propeller Model:** PHC-C3YF-1RF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** F7691  
**Prop Diameter:** 78.0" TO 77.0"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.8 +-0.1  
**Stud Protrusion** 1.450 +-0.030

**Non-HPI Items:**

**Non-HPI Spinner:**

**IDS No.:** 1244      **Rev.:** -      **DM Date:** 10/01/1996

**Modifier:** D'SHANNON PRODUCTS  
**Engine Model:** IO-550-B  
**Power:** 300 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 34.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:** WOODWARD

**Hartzell Approved Items:**

| Item Type     | Item Number | Description                  | Quantity | Qty Per | Comments |
|---------------|-------------|------------------------------|----------|---------|----------|
| BLADE         | F7691       | PCP:BLADE UNIT, ALUM [1,1,5] | 3        | Prop    |          |
| SPINNER       | A-2295-1P   | SPINNER ASSEMBLY             | 1        | Prop    |          |
| SPIN MTG KIT  | A-2476-7    | SPINNER - MTG KIT            | 1        | Prop    |          |
| MTG BOLT/STUD | A-2429-4    | STUD, MOUNTING, 1/2-20       | 6        | Prop    |          |

**BEECH**

**Model:** A45 (T-34A, B-45)  
**Trade Name:** MENTOR  
**Aircraft T.C./STC:** 5A3  
**Propeller Model:** BHC-L2YF-4BF  
**Propeller T.C.:** P39EA  
  
**Blade Model(s):** FC8468AR  
**Prop Diameter:** 84.0" NO CUT OFF

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.5 +-1.0  
**Stud Protrusion** 1.450 +/-0.030

**Non-HPI Items:**

**Non-HPI Spinner:**

**IDS No.:** 206      **Rev.:** 3      **IC Date:** 10/24/2019

**Modifier:**  
**Engine Model:** IO-470-N  
**Power:** 260 HP @ 2625 RPM  
**Placard/Restr:** Normal, Utility, and Aerobatic Catrgories: None.

**Notes:**  
  
**Startlock Angle:** NA  
**Feather/High Angle:** 30.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:** WOODWARD

**Hartzell Approved Items:**

| Item Type     | Item Number | Description              | Quantity | Qty Per | Comments        |
|---------------|-------------|--------------------------|----------|---------|-----------------|
| PROPELLER     | L2F00030    | BHC-L2YF-4BF/FC8468AR    | 1        | A/C     |                 |
| BLADE         | FC8468AR    | PCP:BLADE UNIT, ALUMINUM | 2        | Prop    |                 |
| SPINNER       | A-2297      | SPINNER ASSEMBLY         | 1        | Prop    |                 |
| SPINNER       | A-2297-P    | SPINNER ASSEMBLY         | 1        | Prop    |                 |
| COUNTERWEIGHT | B-3202H-6   | PCP:COUNTERWEIGHT        | 1        | Blade   | Blade Component |
| MTG BOLT/STUD | A-2429-4    | STUD, MOUNTING, 1/2-20   | 6        | Prop    |                 |

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**BEECH**

**Model:** T34C, T34C-1  
**Trade Name:** MENTOR (TURBOPROP)  
**Aircraft T.C./STC:** A26CE  
**Propeller Model:** HC-B3TN-3H  
**Propeller T.C.:** P15EA  
**Blade Model(s):** T10173-11R  
 T10173N-11R  
**Prop Diameter:** 90.5" TO 88"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** -5.0 +-0.4  
**Low Pitch Angle:** 13.5 +- .2  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type                      | Item Number   | Description                       | Quantity | Qty Per | Comments                 |
|--------------------------------|---------------|-----------------------------------|----------|---------|--------------------------|
| PROPELLER                      | B3N10710      | HC-B3TN-3H/T10173N-11R            | 1        | A/C     |                          |
| PROPELLER                      | B3N10710KD    | HC-B3TN-3H/T10173N-11R            | 1        | A/C     |                          |
| BLADE                          | T10173-11R    | BLADE                             | 3        | Prop    |                          |
| BLADE                          | T10173N-11R   | PCP:BLADE UNIT, ALUM [1,1,1]      | 3        | Prop    |                          |
| SPINNER                        | C-3065-6      | SPINNER ASSEMBLY                  | 1        | Prop    |                          |
| COUNTERWEIGHT SLUG A-3039      |               | SLUG, COUNTERWEIGHT               | 1        | Blade   |                          |
| COUNTERWEIGHT SLUG A-890-6     |               | PCP:SLUG, COUNTERWEIGHT           | 1        | Blade   |                          |
| COUNTERWEIGHT SLUG B-3384-21H  |               | BOLT, 1/4-28, HEX HEAD            | 2        | Blade   |                          |
| COUNTERWEIGHT SLUG B-3851-0432 |               | WASHER                            | 2        | Blade   | Primary                  |
| COUNTERWEIGHT SLUG B-3851-0463 |               | WASHER                            | 2        | Blade   | Alternate                |
| MTG BOLT/STUD                  | B-3339        | BOLT, MOUNTING, 9/16-18, 12 POINT | 8        | Prop    |                          |
| OVERHAUL KIT                   | HC-B3TN-3H-OH | O/H KIT                           | 1        | Prop    | For aftermarket use only |

**IDS No.:** 209      **Rev.:** 4      **IC Date:** 07/15/2015

**Modifier:**  
**Engine Model:** PT6A-25, -25A  
**Power:** 550 HP @ 2200 RPM  
**Placard/Restr:**  
**Notes:** Reference Manual 139 for Airworthiness Limitations.

**Startlock Angle:** NA  
**Feather/High Angle:** 87.0 +-0.5  
**Cwt Angle:** 9.0 +-1.0

**Non-HPI Governor:**

**BEECH**

**Model:** T34A, A45, B45  
**Trade Name:** MENTOR  
**Aircraft T.C./STC:** STC-SA876CE  
**Propeller Model:** BHC-L2YF-4BF  
**Propeller T.C.:**  
**Blade Model(s):** FC8468AR  
**Prop Diameter:** 84" NO CUT OFF

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.5 +-0.1  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number | Description              | Quantity | Qty Per | Comments        |
|---------------|-------------|--------------------------|----------|---------|-----------------|
| BLADE         | FC8468AR    | PCP:BLADE UNIT, ALUMINUM | 2        | Prop    |                 |
| SPINNER       | A-2297      | SPINNER ASSEMBLY         | 1        | Prop    |                 |
| COUNTERWEIGHT | B-3202H-6   | PCP:COUNTERWEIGHT        | 1        | Blade   | Blade Component |

**IDS No.:** 207      **Rev.:** -      **DM Date:** 10/01/1992

**Modifier:** BEECH  
**Engine Model:** IO-470-N  
**Power:** 260 HP @ 2625 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 30.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:** WOODWARD

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**BEECH**

**Model:** T34A  
**Trade Name:** MENTOR  
**Aircraft T.C./STC:** SA1864SW  
**Propeller Model:** PHC-C3YF-1RF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** F8468A-6R  
 F8468A-6R\*1  
**Prop Diameter:** 80"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.0 +/-0.1  
**Stud Protrusion** 1.450 +/- .030

**IDS No.:** 208      **Rev.:** 3      **IC Date:** 10/24/2019

**Modifier:** NOGLE & BLACK AV.  
**Engine Model:** IO-520-B,-BA,-BB & IO-550B  
**Power:** 285 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:** IO-520: 285 HP, IO-550: 300 HP.

**Startlock Angle:** NA  
**Feather/High Angle:** 33.0 +/-1.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>             | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>                            |
|------------------|--------------------|--------------------------------|-----------------|----------------|--|
| PROPELLER        | C3F00151           | PHC-C3YF-1RF/F8468A-6R/SM7     | 0               |                |  |
| PROPELLER        | C3F00152           | PHC-C3YF-1RF/F8468A-6R[*1]/SM7 | 0               |                |  |
| BLADE            | F8468A-6R          | PCP:BLADE UNIT, ALUM [1,1,1]   | 3               | Prop           |  |
| BLADE            | F8468A-6R*1        | PCP:BLADE UNIT, ALUM [3,1,1]   | 3               | Prop           |  |
| SPINNER          | A-2295-1           | SPINNER ASSEMBLY               | 1               | Prop           |  |
| SPINNER          | A-2295-1P          | SPINNER ASSEMBLY               | 1               | A/C            |  |
| SPIN MTG KIT     | A-2476-7           | SPINNER - MTG KIT              | 1               | Prop           |  |
| MTG BOLT/STUD    | A-2429-4           | STUD, MOUNTING, 1/2-20         | 6               | Prop           | USED WITH E-7154-2R HUB ONLY               |
| MTG BOLT/STUD    | A-2429-7           | STUD, MOUNTING, 1/2-20         | 6               | Prop           | Use with E-7154-12R & E-7154-42R hubs only |
| OVERHAUL KIT     | PHC-C3YF-1RF*1     | O/H KIT W/O SLIMSERTS          | 1               | Prop           | For aftermarket use only                   |
| OVERHAUL KIT     | PHC-C3YF-1RF-OH    | O/H KIT                        | 1               | Prop           | For aftermarket use only                   |

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BEECH

**Model:** T-34A, B  
**Trade Name:** Mentor  
**Aircraft T.C./STC:** SA02773CH  
**Propeller Model:** HC-C3YF-1RF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** F8068  
**Prop Diameter:** 82"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** 13.0 +/- 0.1  
**Stud Protrusion:** 1.450 +/-0.030

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 2948      **Rev.:** 2      **IC Date:** 07/16/2015

**Modifier:** Aircraft Product Systems  
**Engine Model:** IO-550-R  
**Power:** 300 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:**  
**Feather/High Angle:** 36.0 +/- 1.0  
**Cwt Angle:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>           | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|------------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | C3F07103           | HC-C3YF-1RF/F8068/SM7        | 1               | A/C            |                          |
| BLADE            | F8068              | PCP:BLADE UNIT, ALUM [1,1,5] | 3               | Prop           |                          |
| SPINNER          | A-2295-1           | SPINNER ASSEMBLY             | 1               | Prop           |                          |
| SPINNER          | A-2295-1P          | SPINNER ASSEMBLY             | 1               | Prop           |                          |
| GOVERNOR         | S-1-38             | GOVERNOR ASSEMBLY, S-1-38    | 1               | A/C            |                          |
| SPIN MTG KIT     | A-2476-7           | SPINNER - MTG KIT            | 1               | Prop           |                          |
| MTG BOLT/STUD    | A-2429-4           | STUD, MOUNTING, 1/2-20       | 6               | Prop           |                          |
| OVERHAUL KIT     | HC-C3YF-1RF-OH     | O/H KIT                      | 1               | Prop           | For aftermarket use only |

BEECH

**Model:** 35, A35  
**Trade Name:** BONANZA  
**Aircraft T.C./STC:** A-777  
**Propeller Model:** HC-D2X20-7  
**Propeller T.C.:** P917  
**Blade Model(s):** 8433  
**Prop Diameter:**

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 16.5 +/-0.2  
**Stud Protrusion:**

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 2416      **Rev.:** -      **DM Date:** 06/05/2006

**Modifier:**  
**Engine Model:** E-185-1  
**Power:** HP @ RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 27.0 +/-0.5  
**Cwt Angle:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u> | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|--------------------|-----------------|----------------|-----------------|
| BLADE            | 8433               | BLADE              | 2               | Prop           |                 |

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BEECH

Model: 35, A35  
Trade Name: BONANZA  
Aircraft T.C./STC: A-777  
Propeller Model: HC-D2X20-7  
Propeller T.C.: P917  
Blade Model(s): 8433  
Prop Diameter:

### Prop Setup:

Ref. Radius: 30  
Reverse Angle: NA  
Low Pitch Angle: 16.5 +-0.2  
Stud Protrusion

### Non-HPI Items:

Non-HPI Spinner:

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u> | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|--------------------|-----------------|----------------|-----------------|
| BLADE            | 8433               | BLADE              | 2               | Prop           |                 |

IDS No.: 2350 Rev.: - DM Date: 12/01/2003

Modifier:  
Engine Model: E-185-1  
Power: HP @ RPM  
Placard/Restr:  
Notes:

Startlock Angle: NA  
Feather/High Angle: 27.0 +-0.5  
Cwt Angle:

Non-HPI Governor:

BEECH

Model: 35, A35  
Trade Name: BONANZA  
Aircraft T.C./STC: A-777  
Propeller Model: HC-D2V20-7  
Propeller T.C.: P48GL  
Blade Model(s): V8433  
V8433N

Prop Diameter:

### Prop Setup:

Ref. Radius: 30  
Reverse Angle: NA  
Low Pitch Angle: 16.5 +-0.2  
Stud Protrusion

### Non-HPI Items:

Non-HPI Spinner:

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u> | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|--------------------|-----------------|----------------|-----------------|
| BLADE            | V8433              | BLADE              | 2               | Prop           |                 |
| BLADE            | V8433N             | BLADE              | 2               | Prop           |                 |

IDS No.: 2351 Rev.: - DM Date: 12/04/2003

Modifier:  
Engine Model: E-185-1  
Power: HP @ RPM  
Placard/Restr:  
Notes:

Startlock Angle: NA  
Feather/High Angle: 27.0 +-0.5  
Cwt Angle:

Non-HPI Governor:



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**BEECH**

**Model:** 35, A35  
**Trade Name:** BONANZA  
**Aircraft T.C./STC:** A777  
**Propeller Model:** HC-D2MV20-7  
**Propeller T.C.:** P48GL  
**Blade Model(s):** MV8433N  
**Prop Diameter:** 84" TO 82.5"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 16.5 +-0.2  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number    | Description                   | Quantity | Qty Per | Comments                 |
|---------------|----------------|-------------------------------|----------|---------|--------------------------|
| PROPELLER     | D2210008       | HC-D2MV20-7/MV8433N/LESS HYD. | 1        | A/C     |                          |
| BLADE         | MV8433N        | PCP:BLADE UNIT, ALUM [1,1,1]  | 2        | Prop    |                          |
| MTG BOLT/STUD | A-63B          | PCP: NUT, SHAFT, 20 SPLINE    | 1        | Prop    |                          |
| MTG BOLT/STUD | A-63-B         | NUT,SHAFT,20 SPLINE           | 1        | Prop    |                          |
| OVERHAUL KIT  | HC-D2MV20-7-OH | O/H KIT                       | 1        | Prop    | For aftermarket use only |

**IDS No.:** 164      **Rev.:** 2      **IC Date:** 07/06/2015

**Modifier:**  
**Engine Model:** E-185-1  
**Power:** 185 HP @ 2300 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 27.0 +-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:**

**BEECH**

**Model:** 35, A35, B35  
**Trade Name:** BONANZA  
**Aircraft T.C./STC:** A-777  
**Propeller Model:** HC-D2X20-7  
**Propeller T.C.:** P917  
**Blade Model(s):** 8433  
**Prop Diameter:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 11.0 +-0.2  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type | Item Number | Description | Quantity | Qty Per | Comments |
|-----------|-------------|-------------|----------|---------|----------|
| BLADE     | 8433        | BLADE       | 2        | Prop    |          |

**IDS No.:** 2352      **Rev.:** -      **DM Date:** 12/18/2003

**Modifier:**  
**Engine Model:** E-185-1, E-185-8  
**Power:** HP @ RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 25.0 +-0.5  
**Cwt Angle:**

**Non-HPI Governor:**

# HARTZELL

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**BEECH**

**Model:** 35, A35, B35  
**Trade Name:** BONANZA  
**Aircraft T.C./STC:** A-777  
**Propeller Model:** HC-D2V20-7  
**Propeller T.C.:** P48GL  
**Blade Model(s):** V8433  
 V8433N

**Prop Diameter:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 11.0 +-0.2  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type | Item Number | Description | Quantity | Qty Per | Comments |
|-----------|-------------|-------------|----------|---------|----------|
| BLADE     | V8433       | BLADE       | 2        | Prop    |          |
| BLADE     | V8433N      | BLADE       | 2        | Prop    |          |

**IDS No.:** 2353      **Rev.:** -      **DM Date:** 12/04/2003

**Modifier:**  
**Engine Model:** E-185-1, E-185-8  
**Power:** HP @ RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 25.0 +-0.5  
**Cwt Angle:**

**Non-HPI Governor:**

**BEECH**

**Model:** 35, A35, B35  
**Trade Name:** BONANZA  
**Aircraft T.C./STC:** A-777  
**Propeller Model:** HC-D2MV20-7  
**Propeller T.C.:** P48GL  
**Blade Model(s):** MV8433N  
**Prop Diameter:** 84" TO 82.5"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 11.0 +-0.2  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number    | Description                   | Quantity | Qty Per | Comments                 |
|---------------|----------------|-------------------------------|----------|---------|--------------------------|
| PROPELLER     | D2210013       | HC-D2MV20-7/MV8433N/LESS HYD. | 1        | A/C     |                          |
| BLADE         | MV8433N        | PCP:BLADE UNIT, ALUM [1,1,1]  | 2        | Prop    |                          |
| GOVERNOR      | A1-B           | GOVERNOR ASSEMBLY, A-1-( )    | 1        | A/C     |                          |
| GOVERNOR      | C-137-1B       | T - DRIVE - ASSEMBLY          | 1        | A/C     | T Drive                  |
| MTG BOLT/STUD | A-63B          | PCP: NUT, SHAFT, 20 SPLINE    | 1        | Prop    |                          |
| MTG BOLT/STUD | A-63-B         | NUT,SHAFT,20 SPLINE           | 1        | Prop    |                          |
| OVERHAUL KIT  | HC-D2MV20-7-OH | O/H KIT                       | 1        | Prop    | For aftermarket use only |

**IDS No.:** 165      **Rev.:** 2      **IC Date:** 07/06/2015

**Modifier:**  
**Engine Model:** E-185-1, E-185-8  
**Power:** 205 HP @ 2600 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 25.0 +-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:**

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BEECH

**Model:** S35, V35  
**Trade Name:** BONANZA  
**Aircraft T.C./STC:** 3A15  
**Propeller Model:** PHC-A3VF-4  
**Propeller T.C.:** P6EA  
**Blade Model(s):** V8433-2R  
V8433N-2R  
**Prop Diameter:** 82.6" TO 78.25"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 10.5 +/-0.2  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 2084      **Rev.:** -      **DM Date:** 11/20/2003

**Modifier:**  
**Engine Model:** IO-520-B,-BA,-BB,-N;TSIO-520-D  
**Power:** 285 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 30.8 +/-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:** WOODWARD

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>            | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|-------------------------------|-----------------|----------------|-----------------|
| BLADE            | V8433-2R           | BLADE                         | 3               | Prop           |                 |
| BLADE            | V8433N-2R          | BLADE                         | 3               | Prop           |                 |
| SPINNER          | 837-8              | SPINNER ASSEMBLY              | 1               | Prop           |                 |
| MTG BOLT/STUD    | A-1333-3           | BOLT,MOUNTING,1/2-20,HEX HEAD | 6               | Prop           |                 |

BEECH

**Model:** V35A, V35B  
**Trade Name:** BONANZA  
**Aircraft T.C./STC:** 3A15  
**Propeller Model:** PHC-A3VF-4  
**Propeller T.C.:** P6EA  
**Blade Model(s):** V8433-4R  
V8433N-4R  
**Prop Diameter:** 82.6" TO 78.25"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 11.2 +/-0.2  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 2085      **Rev.:** -      **DM Date:** 11/20/2003

**Modifier:**  
**Engine Model:** IO-520-B,-BA,-BB,-N;TSIO-520-D  
**Power:** 285 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 30.8 +/-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:** WOODWARD

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>            | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|-------------------------------|-----------------|----------------|-----------------|
| BLADE            | V8433-4R           | BLADE                         | 3               | Prop           |                 |
| BLADE            | V8433N-4R          | BLADE                         | 3               | Prop           |                 |
| SPINNER          | 837-8              | SPINNER ASSEMBLY              | 1               | Prop           |                 |
| MTG BOLT/STUD    | A-1328-2           | BOLT,MOUNTING,1/2-20,12 POINT | 6               | Prop           |                 |

# HARTZELL

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**BEECH**

**Model:** 35-C33  
**Trade Name:** DEBONAIR  
**Aircraft T.C./STC:** 3A15  
**Propeller Model:** PHC-A3VF-4  
**Propeller T.C.:** P6EA  
**Blade Model(s):** V8433-4R  
 V8433N-4R  
**Prop Diameter:** 80.0" TO 78.25"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 10.8 +/-0.2  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**IDS No.:** 2311      **Rev.:** -      **DM Date:** 11/23/2003

**Modifier:**  
**Engine Model:** IO-470-K  
**Power:** 225 HP @ 2600 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 32.0 MIN.  
**Cwt Angle:** Positive

**Non-HPI Governor:** WOODWARD

**Hartzell Approved Items:**

| Item Type     | Item Number | Description                   | Quantity | Qty Per | Comments |
|---------------|-------------|-------------------------------|----------|---------|----------|
| BLADE         | V8433-4R    | BLADE                         | 3        | Prop    |          |
| BLADE         | V8433N-4R   | BLADE                         | 3        | Prop    |          |
| SPINNER       | 837-9       | SPINNER ASSEMBLY              | 1        | Prop    |          |
| MTG BOLT/STUD | A-1328-2    | BOLT,MOUNTING,1/2-20,12 POINT | 6        | Prop    |          |

**BEECH**

**Model:** S35, V35  
**Trade Name:** BONANZA  
**Aircraft T.C./STC:** 3A15  
**Propeller Model:** PHC-A3MVF-4  
**Propeller T.C.:** P6EA  
**Blade Model(s):** MV8433N-2R  
 MV8433N-4R  
**Prop Diameter:** 82.6" TO 78.25"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 10.5 +/-0.2  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**IDS No.:** 170      **Rev.:** 1      **D Date:** 01/07/2011

**Modifier:**  
**Engine Model:** IO-520-B,-BA,-BB,-N;TSIO-520-D  
**Power:** 285 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 30.8 +/-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:** WOODWARD

**Hartzell Approved Items:**

| Item Type     | Item Number | Description                   | Quantity | Qty Per | Comments |
|---------------|-------------|-------------------------------|----------|---------|----------|
| PROPELLER     | A3F10310    | PHC-A3MVF-4/MV8433N-2R        | 1        | A/C     |          |
| BLADE         | MV8433N-2R  | PCP:BLADE UNIT, ALUMINUM      | 3        | Prop    |          |
| BLADE         | MV8433N-4R  | PCP:BLADE UNIT, ALUMINUM      | 3        | Prop    |          |
| SPINNER       | 837-8       | SPINNER ASSEMBLY              | 1        | Prop    |          |
| MTG BOLT/STUD | A-1333-3    | BOLT,MOUNTING,1/2-20,HEX HEAD | 6        | Prop    |          |

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**BEECH**

**Model:** S35, V35  
**Trade Name:** BONANZA  
**Aircraft T.C./STC:** 3A15  
**Propeller Model:** PHC-A3VF-4  
**Propeller T.C.:** P6EA  
**Blade Model(s):** V8433-4R  
V8433N-4R  
**Prop Diameter:** 82.6" TO 78.25"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 11.2 +/-0.2  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number | Description                   | Quantity | Qty Per | Comments |
|---------------|-------------|-------------------------------|----------|---------|----------|
| BLADE         | V8433-4R    | BLADE                         | 3        | Prop    |          |
| BLADE         | V8433N-4R   | BLADE                         | 3        | Prop    |          |
| SPINNER       | 837-8       | SPINNER ASSEMBLY              | 1        | Prop    |          |
| MTG BOLT/STUD | A-1333-3    | BOLT,MOUNTING,1/2-20,HEX HEAD | 6        | Prop    |          |

**IDS No.:** 2302      **Rev.:** -      **DM Date:** 11/20/2003

**Modifier:**  
**Engine Model:** IO-520-B,-BA,-BB,-N;TSIO-520-D  
**Power:** 285 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 30.8 +/-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:** WOODWARD

**BEECH**

**Model:** S35, V35  
**Trade Name:** BONANZA  
**Aircraft T.C./STC:** 3A15  
**Propeller Model:** PHC-A3MVF-4  
**Propeller T.C.:** P6EA  
**Blade Model(s):** MV8433N-2R  
MV8433N-4R  
**Prop Diameter:** 82.6" TO 78.25"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 11.2 +/-0.2  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number | Description                   | Quantity | Qty Per | Comments |
|---------------|-------------|-------------------------------|----------|---------|----------|
| BLADE         | MV8433N-2R  | PCP:BLADE UNIT, ALUMINUM      | 3        | Prop    |          |
| BLADE         | MV8433N-4R  | PCP:BLADE UNIT, ALUMINUM      | 3        | Prop    |          |
| SPINNER       | 837-8       | SPINNER ASSEMBLY              | 1        | Prop    |          |
| MTG BOLT/STUD | A-1333-3    | BOLT,MOUNTING,1/2-20,HEX HEAD | 6        | Prop    |          |

**IDS No.:** 1564      **Rev.:** -      **DM Date:** 10/05/1998

**Modifier:**  
**Engine Model:** IO-520-B,-BA,-BB,-N;TSIO-520-D  
**Power:** 285 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 30.8 +/-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:** WOODWARD

# HARTZELL

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BEECH

**Model:** V35A, V35B  
**Trade Name:** BONANZA  
**Aircraft T.C./STC:** 3A15  
**Propeller Model:** PHC-A3MVF-4  
**Propeller T.C.:** P6EA  
**Blade Model(s):** MV8433N-4R  
**Prop Diameter:** 82.6" TO 78.25"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 11.2 +/-0.2  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 171      **Rev.:** -      **DM Date:** 05/12/1998

**Modifier:**  
**Engine Model:** IO-520-B,-BA,-BB,-N;TSIO-520-D  
**Power:** 285 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 30.8 +/-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:** WOODWARD

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>            | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|-------------------------------|-----------------|----------------|-----------------|
| BLADE            | MV8433N-4R         | PCP:BLADE UNIT, ALUMINUM      | 3               | Prop           |                 |
| SPINNER          | 837-8              | SPINNER ASSEMBLY              | 1               | Prop           |                 |
| MTG BOLT/STUD    | A-1328-2           | BOLT,MOUNTING,1/2-20,12 POINT | 6               | Prop           |                 |

BEECH

**Model:** 35 SERIES  
**Trade Name:** BONANZA  
**Aircraft T.C./STC:** STC-SA4-785  
**Propeller Model:** HC-12X20-7D  
**Propeller T.C.:** P48GL  
**Blade Model(s):** 8433  
**Prop Diameter:** 84"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:**  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 2090      **Rev.:** -      **DM Date:** 11/20/2003

**Modifier:** RK WILSON  
**Engine Model:**  
**Power:** HP @ RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:**  
**Feather/High Angle:**  
**Cwt Angle:** Positive

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u> | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|--------------------|-----------------|----------------|-----------------|
| BLADE            | 8433               | BLADE              | 2               | Prop           |                 |

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**BEECH**

**Model:** 35 SERIES  
**Trade Name:** BONANZA  
**Aircraft T.C./STC:** STC-SA4-785  
**Propeller Model:** HC-12V20-7D  
**Propeller T.C.:** P48GL  
**Blade Model(s):** V8433  
V8433N  
**Prop Diameter:** 84"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:**  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u> | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|--------------------|-----------------|----------------|-----------------|
| BLADE            | V8433              | BLADE              | 2               | Prop           |                 |
| BLADE            | V8433N             | BLADE              | 2               | Prop           |                 |
| COUNTERWEIGHT    | 833-11             | IDS Item           | 1               | Blade          |                 |

**IDS No.:** 2091      **Rev.:** -      **DM Date:** 11/20/2003

**Modifier:** RK WILSON  
**Engine Model:**  
**Power:** HP @ RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:**  
**Feather/High Angle:**  
**Cwt Angle:** Positive

**Non-HPI Governor:**

**BEECH**

**Model:** 35 SERIES  
**Trade Name:** BONANZA  
**Aircraft T.C./STC:** STC-SA4-785  
**Propeller Model:** HC-D2X20-7  
**Propeller T.C.:** P917  
**Blade Model(s):** 8433  
**Prop Diameter:**

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:**  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u> | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|--------------------|-----------------|----------------|-----------------|
| BLADE            | 8433               | BLADE              | 2               | Prop           |                 |

**IDS No.:** 2346      **Rev.:** -      **DM Date:** 12/04/2003

**Modifier:** R.K. WILSON  
**Engine Model:**  
**Power:** HP @ RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:**  
**Feather/High Angle:**  
**Cwt Angle:**

**Non-HPI Governor:**

# HARTZELL

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**BEECH**

**Model:** 35 SERIES  
**Trade Name:** BONANZA  
**Aircraft T.C./STC:** STC-SA4-785  
**Propeller Model:** HC-D2V20-7  
**Propeller T.C.:** P48GL  
**Blade Model(s):** V8433  
V8433N

**Prop Diameter:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:**  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u> | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|--------------------|-----------------|----------------|-----------------|
| BLADE            | V8433              | BLADE              | 2               | Prop           |                 |
| BLADE            | V8433N             | BLADE              | 2               | Prop           |                 |

**IDS No.:** 2347      **Rev.:** -      **DM Date:** 12/04/2003

**Modifier:** R.K. WILSON  
**Engine Model:**  
**Power:** HP @ RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:**  
**Feather/High Angle:**  
**Cwt Angle:**

**Non-HPI Governor:**

**BEECH**

**Model:** 35 SERIES  
**Trade Name:** BONANZA  
**Aircraft T.C./STC:** STC-SA4-785  
**Propeller Model:** HC-D2MV20-7  
**Propeller T.C.:** P48GL  
**Blade Model(s):** MV8433N  
**Prop Diameter:** 84"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:**  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>           | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|------------------------------|-----------------|----------------|-----------------|
| BLADE            | MV8433N            | PCP:BLADE UNIT, ALUM [1,1,1] | 2               | Prop           |                 |
| COUNTERWEIGHT    | 833-11             | IDS Item                     | 1               | Blade          |                 |

**IDS No.:** 189      **Rev.:** -      **DM Date:** 05/12/1998

**Modifier:** RK WILSON  
**Engine Model:**  
**Power:** HP @ RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:**  
**Feather/High Angle:**  
**Cwt Angle:** Positive

**Non-HPI Governor:**



# HARTZELL

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**BEECH**

Model: 35 SERIES  
 Trade Name: BONANZA  
 Aircraft T.C./STC: STC-SA4-819  
 Propeller Model: HC-12X20-7D  
 Propeller T.C.: P48GL  
 Blade Model(s): 8433  
 Prop Diameter: 84"

**Prop Setup:**

Ref. Radius: 30  
 Reverse Angle: NA  
 Low Pitch Angle:  
 Stud Protrusion

**Non-HPI Items:**

Non-HPI Spinner:

**Hartzell Approved Items:**

| Item Type | Item Number | Description | Quantity | Qty Per | Comments |
|-----------|-------------|-------------|----------|---------|----------|
| BLADE     | 8433        | BLADE       | 2        | Prop    |          |

IDS No.: 2092 Rev.: - DM Date: 11/20/2003

Modifier: TORBET AIRCRAFT  
 Engine Model:  
 Power: HP @ RPM  
 Placard/Restr:  
 Notes:

Startlock Angle:  
 Feather/High Angle:  
 Cwt Angle: Positive

Non-HPI Governor:

**BEECH**

Model: 35 SERIES  
 Trade Name: BONANZA  
 Aircraft T.C./STC: STC-SA4-819  
 Propeller Model: HC-12V20-7D  
 Propeller T.C.: P48GL  
 Blade Model(s): V8433  
 V8433N  
 Prop Diameter: 84"

**Prop Setup:**

Ref. Radius: 30  
 Reverse Angle: NA  
 Low Pitch Angle:  
 Stud Protrusion

**Non-HPI Items:**

Non-HPI Spinner:

**Hartzell Approved Items:**

| Item Type | Item Number | Description | Quantity | Qty Per | Comments |
|-----------|-------------|-------------|----------|---------|----------|
| BLADE     | V8433       | BLADE       | 2        | Prop    |          |
| BLADE     | V8433N      | BLADE       | 2        | Prop    |          |

IDS No.: 2093 Rev.: - DM Date: 11/20/2003

Modifier: TORBET AIRCRAFT  
 Engine Model:  
 Power: HP @ RPM  
 Placard/Restr:  
 Notes:

Startlock Angle:  
 Feather/High Angle:  
 Cwt Angle: Positive

Non-HPI Governor:

# HARTZELL

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BEECH

Model: 35 SERIES  
Trade Name: BONANZA  
Aircraft T.C./STC: STC-SA4-819  
Propeller Model: HC-D2X20-7  
Propeller T.C.: P917  
Blade Model(s): 8433  
Prop Diameter:

### Prop Setup:

Ref. Radius: 30  
Reverse Angle: NA  
Low Pitch Angle:  
Stud Protrusion

### Non-HPI Items:

Non-HPI Spinner:

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u> | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|--------------------|-----------------|----------------|-----------------|
| BLADE            | 8433               | BLADE              | 2               | Prop           |                 |

IDS No.: 2348 Rev.: - DM Date: 12/04/2003

Modifier: TORBET AIRCRAFT  
Engine Model:  
Power: HP @ RPM  
Placard/Restr:  
Notes:

Startlock Angle:  
Feather/High Angle:  
Cwt Angle:

Non-HPI Governor:

BEECH

Model: 35 SERIES  
Trade Name: BONANZA  
Aircraft T.C./STC: STC-SA4-819  
Propeller Model: HC-D2V20-7  
Propeller T.C.: P48GL  
Blade Model(s): V8433  
V8433N  
Prop Diameter:

### Prop Setup:

Ref. Radius: 30  
Reverse Angle: NA  
Low Pitch Angle:  
Stud Protrusion

### Non-HPI Items:

Non-HPI Spinner:

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u> | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|--------------------|-----------------|----------------|-----------------|
| BLADE            | V8433              | BLADE              | 2               | Prop           |                 |
| BLADE            | V8433N             | BLADE              | 2               | Prop           |                 |

IDS No.: 2349 Rev.: - DM Date: 12/04/2003

Modifier: TORBET AIRCRAFT  
Engine Model:  
Power: HP @ RPM  
Placard/Restr:  
Notes:

Startlock Angle:  
Feather/High Angle:  
Cwt Angle:

Non-HPI Governor:

# HARTZELL

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**BEECH**

Model: 35 SERIES  
Trade Name: BONANZA  
Aircraft T.C./STC: STC-SA4-819  
Propeller Model: HC-D2MV20-7  
Propeller T.C.: P48GL  
Blade Model(s): MV8433N  
Prop Diameter: 84"

### Prop Setup:

Ref. Radius: 30  
Reverse Angle: NA  
Low Pitch Angle:  
Stud Protrusion

### Non-HPI Items:

Non-HPI Spinner:

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>           | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|------------------------------|-----------------|----------------|-----------------|
| BLADE            | MV8433N            | PCP:BLADE UNIT, ALUM [1,1,1] | 2               | Prop           |                 |

IDS No.: 190 Rev.: - DM Date: 05/12/1998

Modifier: TORBET AIRCRAFT  
Engine Model:  
Power: HP @ RPM  
Placard/Restr:  
Notes:

Startlock Angle:  
Feather/High Angle:  
Cwt Angle: Positive

Non-HPI Governor:

**BEECH**

Model: 35 SERIES  
Trade Name: BONANZA  
Aircraft T.C./STC: STC-SA4-1146  
Propeller Model: HC-DX20-7  
Propeller T.C.: P917  
Blade Model(s): 8433  
Prop Diameter:

### Prop Setup:

Ref. Radius: 30  
Reverse Angle: NA  
Low Pitch Angle:  
Stud Protrusion

### Non-HPI Items:

Non-HPI Spinner:

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u> | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|--------------------|-----------------|----------------|-----------------|
| BLADE            | 8433               | BLADE              | 2               | Prop           |                 |

IDS No.: 2340 Rev.: - DM Date: 12/04/2003

Modifier: ALPHA AIRCRAFT  
Engine Model:  
Power: HP @ RPM  
Placard/Restr:  
Notes:

Startlock Angle:  
Feather/High Angle:  
Cwt Angle:

Non-HPI Governor:

# HARTZELL

## APPLICATION GUIDE 159

BEECH

**Model:** 35 SERIES  
**Trade Name:** BONANZA  
**Aircraft T.C./STC:** STC-SA4-1146  
**Propeller Model:** HC-D2V20-7  
**Propeller T.C.:** P48GL  
**Blade Model(s):** V8433  
V8433N

**Prop Diameter:**

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:**  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u> | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|--------------------|-----------------|----------------|-----------------|
| BLADE            | V8433              | BLADE              | 2               | Prop           |                 |
| BLADE            | V8433N             | BLADE              | 2               | Prop           |                 |

**IDS No.:** 2341      **Rev.:** -      **DM Date:** 12/04/2003

**Modifier:** ALPHA AIRCRAFT  
**Engine Model:**  
**Power:** HP @ RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:**  
**Feather/High Angle:**  
**Cwt Angle:**

**Non-HPI Governor:**

BEECH

**Model:** 35 SERIES  
**Trade Name:** BONANZA  
**Aircraft T.C./STC:** STC-SA4-1146  
**Propeller Model:** HC-D2MV20-7  
**Propeller T.C.:** P48GL  
**Blade Model(s):** MV8433N  
**Prop Diameter:** 84"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:**  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>           | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|------------------------------|-----------------|----------------|-----------------|
| BLADE            | MV8433N            | PCP:BLADE UNIT, ALUM [1,1,1] | 2               | Prop           |                 |
| COUNTERWEIGHT    | 833-13             | IDS Item                     | 1               | Blade          |                 |

**IDS No.:** 186      **Rev.:** -      **DM Date:** 05/12/1998

**Modifier:** ALPHA AIRCRAFT  
**Engine Model:**  
**Power:** HP @ RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:**  
**Feather/High Angle:**  
**Cwt Angle:** Positive

**Non-HPI Governor:**

# HARTZELL

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BEECH

Model: 35 SERIES  
Trade Name: BONANZA  
Aircraft T.C./STC: STC-SA4-1305  
Propeller Model: HC-D2X20-7  
Propeller T.C.: P917  
Blade Model(s): 8433  
Prop Diameter:

### Prop Setup:

Ref. Radius: 30  
Reverse Angle: NA  
Low Pitch Angle:  
Stud Protrusion

### Non-HPI Items:

Non-HPI Spinner:

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u> | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|--------------------|-----------------|----------------|-----------------|
| BLADE            | 8433               | BLADE              | 2               | Prop           |                 |

IDS No.: 2342 Rev.: - DM Date: 12/04/2003

Modifier: ALPHA AIRCRAFT  
Engine Model:  
Power: HP @ RPM  
Placard/Restr:  
Notes:

Startlock Angle:  
Feather/High Angle:  
Cwt Angle:

Non-HPI Governor:

BEECH

Model: 35 SERIES  
Trade Name: BONANZA  
Aircraft T.C./STC: STC-SA4-1305  
Propeller Model: HC-D2V20-7  
Propeller T.C.: P48GL  
Blade Model(s): V8433  
V8433N  
Prop Diameter:

### Prop Setup:

Ref. Radius: 30  
Reverse Angle: NA  
Low Pitch Angle:  
Stud Protrusion

### Non-HPI Items:

Non-HPI Spinner:

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u> | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|--------------------|-----------------|----------------|-----------------|
| BLADE            | V8433              | BLADE              | 2               | Prop           |                 |
| BLADE            | V8433N             | BLADE              | 2               | Prop           |                 |

IDS No.: 2343 Rev.: - DM Date: 12/04/2003

Modifier: ALPHA AIRCRAFT  
Engine Model:  
Power: HP @ RPM  
Placard/Restr:  
Notes:

Startlock Angle:  
Feather/High Angle:  
Cwt Angle:

Non-HPI Governor:

# HARTZELL

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**BEECH**

**Model:** 35 SERIES  
**Trade Name:** BONANZA  
**Aircraft T.C./STC:** STC-SA4-1305  
**Propeller Model:** HC-D2MV20-7  
**Propeller T.C.:** P48GL  
**Blade Model(s):** MV8433N  
**Prop Diameter:** 84"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:**  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number | Description                  | Quantity | Qty Per | Comments |
|---------------|-------------|------------------------------|----------|---------|----------|
| BLADE         | MV8433N     | PCP:BLADE UNIT, ALUM [1,1,1] | 2        | Prop    |          |
| COUNTERWEIGHT | 833-12      | IDS Item                     | 1        | Blade   |          |

**IDS No.:** 187      **Rev.:** -      **DM Date:** 05/12/1998

**Modifier:** CHANDLER AIRCRAFT  
**Engine Model:**  
**Power:** HP @ RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:**  
**Feather/High Angle:**  
**Cwt Angle:** Positive

**Non-HPI Governor:**

**BEECH**

**Model:** 35 SERIES  
**Trade Name:** BONANZA  
**Aircraft T.C./STC:** STC-SA609SW  
**Propeller Model:** PHC-83VF-4, PHC-A3VF-4  
**Propeller T.C.:** P6EA  
**Blade Model(s):** V8433-4  
V8433N-4  
**Prop Diameter:** 80.6"

**Prop Setup:**

**Ref. Radius:** 0  
**Reverse Angle:**  
**Low Pitch Angle:**  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number | Description                   | Quantity | Qty Per | Comments |
|---------------|-------------|-------------------------------|----------|---------|----------|
| BLADE         | V8433-4     | BLADE                         | 3        | Prop    |          |
| BLADE         | V8433N-4    | BLADE                         | 3        | Prop    |          |
| SPINNER       | 837-8       | SPINNER ASSEMBLY              | 1        | Prop    |          |
| MTG BOLT/STUD | A-1328-2    | BOLT,MOUNTING,1/2-20,12 POINT | 6        | Prop    |          |

**IDS No.:** 2094      **Rev.:** -      **DM Date:** 11/20/2003

**Modifier:** HUTCHISON AIRCRAFT  
**Engine Model:**  
**Power:** HP @ RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:**  
**Feather/High Angle:**  
**Cwt Angle:** Positive

**Non-HPI Governor:**

# HARTZELL

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**BEECH**

**Model:** 35 SERIES  
**Trade Name:** BONANZA  
**Aircraft T.C./STC:** STC-SA609SW  
**Propeller Model:** PHC-A3MVF-4  
**Propeller T.C.:** P6EA  
**Blade Model(s):** MV8433N-4  
**Prop Diameter:** 80.6"

### Prop Setup:

**Ref. Radius:**  
**Reverse Angle:**  
**Low Pitch Angle:**  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>            | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|-------------------------------|-----------------|----------------|-----------------|
| BLADE            | MV8433N-4          | PCP:BLADE UNIT, ALUMINUM      | 3               | Prop           |                 |
| SPINNER          | 837-8              | SPINNER ASSEMBLY              | 1               | Prop           |                 |
| MTG BOLT/STUD    | A-1328-2           | BOLT,MOUNTING,1/2-20,12 POINT | 6               | Prop           |                 |

**IDS No.:** 191      **Rev.:** -      **DM Date:** 05/12/1998

**Modifier:** HUTCHISON AIRCRAFT  
**Engine Model:**  
**Power:** HP @ RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:**  
**Feather/High Angle:**  
**Cwt Angle:** Positive

**Non-HPI Governor:**

**BEECH**

**Model:** 35, A35, B35, C35, D35, E35, F35  
**Trade Name:** BONANZA  
**Aircraft T.C./STC:** STC-SA1-570  
**Propeller Model:** HC-A2X20-4A1  
**Propeller T.C.:** P908  
**Blade Model(s):** 8433  
8833-4  
**Prop Diameter:** 84" TO 82.5"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 11.0 +-0.2  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u> | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|--------------------|-----------------|----------------|-----------------|
| BLADE            | 8433               | BLADE              | 2               | Prop           |                 |
| BLADE            | 8833-4             | BLADE              | 2               | Prop           |                 |

**IDS No.:** 2354      **Rev.:** -      **DM Date:** 12/18/2003

**Modifier:** HARTZELL PROPELLER  
**Engine Model:** E-185-8, -11, -1; E-225-8  
**Power:** 205 HP @ 2600 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 26.5 +-0.5  
**Cwt Angle:** POSITIVE

**Non-HPI Governor:**

# HARTZELL

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**BEECH**

**Model:** 35,A35,B35,C35,D35,E35,F35  
**Trade Name:** BONANZA  
**Aircraft T.C./STC:** STC-SA1-570  
**Propeller Model:** HC-A2X20-4A1  
**Propeller T.C.:** P24EA  
**Blade Model(s):** 8433  
 8433-4  
**Prop Diameter:** 84" TO 82.5"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 11.0 +-0.2  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type          | Item Number | Description               | Quantity | Qty Per | Comments |
|--------------------|-------------|---------------------------|----------|---------|----------|
| BLADE              | 8433        | BLADE                     | 2        | Prop    |          |
| BLADE              | 8433-4      | BLADE                     | 2        | Prop    |          |
| SPINNER            | 837-6       | SPINNER ASSEMBLY          | 1        | Prop    |          |
| GOVERNOR           | A1-C        | GOVERNOR ASSEMBLY, A-1-() | 1        | A/C     |          |
| GOVERNOR           | C-137-1B    | T - DRIVE - ASSEMBLY      | 1        | A/C     | T Drive  |
| COUNTERWEIGHT SLUG | A-619-5     | SLUG, COUNTERWEIGHT       | 2        | Blade   |          |
| MTG BOLT/STUD      | A-2053      | PCP: NUT,SHAFT,20 SPLINE  | 1        | Prop    |          |

**IDS No.:** 2086      **Rev.:** -      **DM Date:** 11/20/2003

**Modifier:** HARTZELL PROPELLER  
**Engine Model:** E-185-8, -11, -1; E-225-8  
**Power:** 205 HP @ 2600 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 26.5 +-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:**

**BEECH**

**Model:** 35, A35, B35, C35, D35, E35, F35  
**Trade Name:** BONANZA  
**Aircraft T.C./STC:** STC-SA1-570  
**Propeller Model:** HC-A2V20-4A1  
**Propeller T.C.:** P24EA  
**Blade Model(s):** V8433  
 V8433N  
 V8833-4  
 V8833N-4

**Prop Diameter:** 84" TO 82.5"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 11.0 +-0.2  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type | Item Number | Description | Quantity | Qty Per | Comments |
|-----------|-------------|-------------|----------|---------|----------|
| BLADE     | V8433       | BLADE       | 2        | Prop    |          |
| BLADE     | V8433N      | BLADE       | 2        | Prop    |          |
| BLADE     | V8833-4     | BLADE       | 2        | Prop    |          |
| BLADE     | V8833N-4    | BLADE UNIT  | 2        | Prop    |          |

**IDS No.:** 2355      **Rev.:** -      **DM Date:** 12/01/2003

**Modifier:** HARTZELL PROPELLER  
**Engine Model:** E-185-8, -11, -1; E-225-8  
**Power:** 205 HP @ 2600 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 26.5 +-0.5  
**Cwt Angle:** POSITIVE

**Non-HPI Governor:**



# HARTZELL

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BEECH

IDS No.: 2087 Rev.: - DM Date: 11/20/2003

**Model:** 35,A35,B35,C35,D35,E35,F35

**Trade Name:** BONANZA

**Aircraft T.C./STC:** STC-SA1-570

**Propeller Model:** HC-A2V20-4A1

**Propeller T.C.:** P24EA

**Blade Model(s):** V8433

V8433N

V8833-4

V8833N-4

**Prop Diameter:** 84" TO 82.5"

### Prop Setup:

**Ref. Radius:** 30

**Reverse Angle:** NA

**Low Pitch Angle:** 11.0 +/-0.2

**Stud Protrusion**

**Modifier:** HARTZELL PROPELLER

**Engine Model:** E-185-8, -11, -1; E-225-8

**Power:** 205 HP @ 2600 RPM

**Placard/Restr:**

**Notes:**

**Startlock Angle:** NA

**Feather/High Angle:** 26.5 +/-0.5

**Cwt Angle:** Positive

### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u>   | <u>Item Number</u> | <u>Description</u>         | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|--------------------|--------------------|----------------------------|-----------------|----------------|-----------------|
| BLADE              | V8433              | BLADE                      | 2               | Prop           |                 |
| BLADE              | V8433N             | BLADE                      | 2               | Prop           |                 |
| BLADE              | V8833-4            | BLADE                      | 2               | Prop           |                 |
| BLADE              | V8833N-4           | BLADE UNIT                 | 2               | Prop           |                 |
| SPINNER            | 837-6              | SPINNER ASSEMBLY           | 1               | Prop           |                 |
| GOVERNOR           | A1-C               | GOVERNOR ASSEMBLY, A-1-( ) | 1               | A/C            |                 |
| GOVERNOR           | C-137-1B           | T - DRIVE - ASSEMBLY       | 1               | A/C            | T Drive         |
| COUNTERWEIGHT SLUG | A-619-5            | SLUG, COUNTERWEIGHT        | 2               | Blade          |                 |
| MTG BOLT/STUD      | A-2053             | PCP: NUT,SHAFT,20 SPLINE   | 1               | Prop           |                 |

# HARTZELL

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**BEECH**

**Model:** 35,A35,B35,C35,D35,E35,F35  
**Trade Name:** BONANZA  
**Aircraft T.C./STC:** STC-SA1-570  
**Propeller Model:** HC-A2MV20-4A1  
**Propeller T.C.:** P24EA  
**Blade Model(s):** MV8433N  
 MV8833N-4  
**Prop Diameter:** 84" TO 82.5"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 11.0 +-0.2  
**Stud Protrusion**

**IDS No.:** 176      **Rev.:** 3      **IC Date:** 07/06/2015

**Modifier:** HARTZELL PROPELLER  
**Engine Model:** E-185-8, -11, -1; E-225-8  
**Power:** 205 HP @ 2600 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 26.5 +-0.5  
**Cwt Angle:** Positive

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type          | Item Number   | Description                    | Quantity | Qty Per | Comments                 |
|--------------------|---------------|--------------------------------|----------|---------|--------------------------|
| PROPELLER          | A2210040      | HC-A2MV20-4A1/MV8433N/A224-4   | 1        | A/C     |                          |
| PROPELLER          | A2210047      | HC-A2MV20-4A1/MV8833N-4/A224-4 | 1        | A/C     |                          |
| BLADE              | MV8433N       | PCP:BLADE UNIT, ALUM [1,1,1]   | 2        | Prop    |                          |
| BLADE              | MV8833N-4     | PCP:BLADE UNIT, ALUMINUM       | 2        | Prop    |                          |
| SPINNER            | 837-6         | SPINNER ASSEMBLY               | 1        | Prop    |                          |
| GOVERNOR           | A1-C          | GOVERNOR ASSEMBLY, A-1-()      | 1        | A/C     |                          |
| GOVERNOR           | C-137-1B      | T - DRIVE - ASSEMBLY           | 1        | A/C     | T Drive                  |
| COUNTERWEIGHT SLUG | A-619-1       | SLUG, COUNTERWEIGHT            | 2        | Blade   |                          |
| COUNTERWEIGHT SLUG | B-3840-6      | SCREW, 10-32, FILLISTER HEAD   | 2        | Blade   |                          |
| MTG BOLT/STUD      | A-2053        | PCP: NUT,SHAFT,20 SPLINE       | 1        | Prop    |                          |
| OVERHAUL KIT       | A-224-4-OH    | O/H KIT                        | 1        | Prop    | For aftermarket use only |
| OVERHAUL KIT       | HC-A2MV20-4A1 | O/H KIT                        | 1        | Prop    | For aftermarket use only |

**BEECH**

**Model:** 35 SERIES  
**Trade Name:** BONANZA  
**Aircraft T.C./STC:** STC-SA4-550  
**Propeller Model:** HC-D2X20-7  
**Propeller T.C.:** P917  
**Blade Model(s):** 8433  
**Prop Diameter:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 11.0 +-0.2  
**Stud Protrusion**

**IDS No.:** 2344      **Rev.:** -      **DM Date:** 12/04/2003

**Modifier:** MIKE TRUDEAU  
**Engine Model:** E-228-8  
**Power:** HP @ RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 24.0 MIN.  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type | Item Number | Description | Quantity | Qty Per | Comments |
|-----------|-------------|-------------|----------|---------|----------|
| BLADE     | 8433        | BLADE       | 2        | Prop    |          |

# HARTZELL

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BEECH

**Model:** 35 SERIES  
**Trade Name:** BONANZA  
**Aircraft T.C./STC:** STC-SA4-550  
**Propeller Model:** HC-D2V20-7  
**Propeller T.C.:** P48GL  
**Blade Model(s):** V8433  
V8433N

**Prop Diameter:**

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 11.0 +/-0.2  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 2345      **Rev.:** -      **DM Date:** 12/04/2003

**Modifier:** MIKE TRUDEAU  
**Engine Model:** E-225-8  
**Power:** HP @ RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 24.0 MIN.  
**Cwt Angle:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u> | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|--------------------|-----------------|----------------|-----------------|
| BLADE            | V8433              | BLADE              | 2               | Prop           |                 |
| BLADE            | V8433N             | BLADE              | 2               | Prop           |                 |

BEECH

**Model:** 35 SERIES  
**Trade Name:** BONANZA  
**Aircraft T.C./STC:** STC-SA4-550  
**Propeller Model:** HC-D2MV20-7  
**Propeller T.C.:** P48GL  
**Blade Model(s):** MV8433N  
**Prop Diameter:** 84"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 11.0 +/- 0.2  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 188      **Rev.:** 2      **IC Date:** 07/06/2015

**Modifier:** D. H. MORETON  
**Engine Model:** E-225-8  
**Power:** 205 HP @ 2600 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 24.0 MIN  
**Cwt Angle:** Positive

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>            | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|-------------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | D2210009           | HC-D2MV20-7/MV8433N/LESS HYD. | 1               | A/C            |                          |
| BLADE            | MV8433N            | PCP:BLADE UNIT, ALUM [1,1,1]  | 2               | Prop           |                          |
| COUNTERWEIGHT    | 833-8              | IDS Item                      | 1               | Blade          |                          |
| MTG BOLT/STUD    | A-63B              | PCP: NUT, SHAFT, 20 SPLINE    | 1               | Prop           |                          |
| MTG BOLT/STUD    | A-63-B             | NUT,SHAFT,20 SPLINE           | 1               | Prop           |                          |
| OVERHAUL KIT     | HC-D2MV20-7-OH     | O/H KIT                       | 1               | Prop           | For aftermarket use only |

# HARTZELL

## APPLICATION GUIDE

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BEECH

IDS No.: 2088 Rev.: - DM Date: 11/20/2003

Model: G35, 35R  
Trade Name: BONANZA  
Aircraft T.C./STC: STC-SA1-570  
Propeller Model: HC-A2X20-4A1  
Propeller T.C.: P24EA  
Blade Model(s): 8433-4  
8833-4  
Prop Diameter: 84" TO 82.5"

Modifier: HARTZELL PROPELLER  
Engine Model: E-225-8  
Power: 205 HP @ 2600 RPM  
Placard/Restr:  
Notes:

### Prop Setup:

Ref. Radius: 30  
Reverse Angle: NA  
Low Pitch Angle: 12.0 +-0.2  
Stud Protrusion

Startlock Angle: NA  
Feather/High Angle: 26.5 +-0.5  
Cwt Angle: Positive

### Non-HPI Items:

Non-HPI Spinner:

Non-HPI Governor:

### Hartzell Approved Items:

| <u>Item Type</u>   | <u>Item Number</u> | <u>Description</u>         | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|--------------------|--------------------|----------------------------|-----------------|----------------|-----------------|
| BLADE              | 8433-4             | BLADE                      | 2               | Prop           |                 |
| BLADE              | 8833-4             | BLADE                      | 2               | Prop           |                 |
| SPINNER            | 837-6              | SPINNER ASSEMBLY           | 1               | Prop           |                 |
| GOVERNOR           | A1-C               | GOVERNOR ASSEMBLY, A-1-( ) | 1               | A/C            |                 |
| GOVERNOR           | C-137-1B           | T - DRIVE - ASSEMBLY       | 1               | A/C            | T Drive         |
| COUNTERWEIGHT SLUG | A-619-6            | SLUG, COUNTERWEIGHT        | 2               | Blade          |                 |
| MTG BOLT/STUD      | A-2053             | PCP: NUT,SHAFT,20 SPLINE   | 1               | Prop           |                 |

# HARTZELL

## APPLICATION GUIDE

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BEECH

IDS No.: 2089 Rev.: - DM Date: 11/20/2003

**Model:** G35, 35R  
**Trade Name:** BONANZA  
**Aircraft T.C./STC:** STC-SA1-570  
**Propeller Model:** HC-A2V20-4A1  
**Propeller T.C.:** P24EA  
**Blade Model(s):** V8433-4  
                           V8433N-4  
                           V8833-4  
                           V8833N-4  
**Prop Diameter:** 84" TO 82.5"

**Modifier:** HARTZELL PROPELLER  
**Engine Model:** E-225-8  
**Power:** 205 HP @ 2600 RPM  
**Placard/Restr:**  
**Notes:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.0 +-0.2  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 26.5 +-0.5  
**Cwt Angle:** Positive

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u>   | <u>Item Number</u> | <u>Description</u>         | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|--------------------|--------------------|----------------------------|-----------------|----------------|-----------------|
| BLADE              | V8433-4            | BLADE                      | 2               | Prop           |                 |
| BLADE              | V8433N-4           | BLADE                      | 2               | Prop           |                 |
| BLADE              | V8833-4            | BLADE                      | 2               | Prop           |                 |
| BLADE              | V8833N-4           | BLADE UNIT                 | 2               | Prop           |                 |
| SPINNER            | 837-6              | SPINNER ASSEMBLY           | 1               | Prop           |                 |
| GOVERNOR           | A1-C               | GOVERNOR ASSEMBLY, A-1-( ) | 1               | A/C            |                 |
| GOVERNOR           | C-137-1B           | T - DRIVE - ASSEMBLY       | 1               | A/C            | T Drive         |
| COUNTERWEIGHT SLUG | A-619-6            | SLUG, COUNTERWEIGHT        | 2               | Blade          |                 |
| MTG BOLT/STUD      | A-2053             | PCP: NUT,SHAFT,20 SPLINE   | 1               | Prop           |                 |

# HARTZELL

## APPLICATION GUIDE

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BEECH

IDS No.: 177      Rev.: 3      IC      Date: 07/06/2015

**Model:** G35, 35R  
**Trade Name:** BONANZA  
**Aircraft T.C./STC:** STC-SA1-570  
**Propeller Model:** HC-A2MV20-4A1  
**Propeller T.C.:** P24EA  
**Blade Model(s):** MV8433N  
 MV8833N-4  
**Prop Diameter:** 84" TO 82.5"

**Modifier:** HARTZELL PROPELLER  
**Engine Model:** E-225-8  
**Power:** 205 HP @ 2600 RPM  
**Placard/Restr:**  
**Notes:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.0 +-0.2  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 26.5 +-0.5  
**Cwt Angle:** Positive

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u>            | <u>Item Number</u> | <u>Description</u>             | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|-----------------------------|--------------------|--------------------------------|-----------------|----------------|--------------------------|
| PROPELLER                   | A2210042           | HC-A2MV20-4A1/MV8433N/A224-4   | 1               | A/C            |                          |
| PROPELLER                   | A2210048           | HC-A2MV20-4A1/MV8833N-4/A224-4 | 1               | A/C            |                          |
| BLADE                       | MV8433N            | PCP:BLADE UNIT, ALUM [1,1,1]   | 2               | Prop           |                          |
| BLADE                       | MV8833N-4          | PCP:BLADE UNIT, ALUMINUM       | 2               | Prop           |                          |
| SPINNER                     | 837-6              | SPINNER ASSEMBLY               | 1               | Prop           |                          |
| GOVERNOR                    | A1-C               | GOVERNOR ASSEMBLY, A-1-( )     | 1               | A/C            |                          |
| GOVERNOR                    | C-137-1B           | T - DRIVE - ASSEMBLY           | 1               | A/C            | T Drive                  |
| COUNTERWEIGHT SLUG A-619-1  |                    | SLUG, COUNTERWEIGHT            | 2               | Blade          |                          |
| COUNTERWEIGHT SLUG B-3840-6 |                    | SCREW, 10-32, FILLISTER HEAD   | 2               | Blade          |                          |
| MTG BOLT/STUD               | A-2053             | PCP: NUT,SHAFT,20 SPLINE       | 1               | Prop           |                          |
| OVERHAUL KIT                | A-224-4-OH         | O/H KIT                        | 1               | Prop           | For aftermarket use only |
| OVERHAUL KIT                | HC-A2MV20-4A1      | O/H KIT                        | 1               | Prop           | For aftermarket use only |

# HARTZELL

## APPLICATION GUIDE 159

**BEECH**

**Model:** 35 SERIES  
**Trade Name:** BONANZA  
**Aircraft T.C./STC:** STC-SA1-569  
**Propeller Model:** BHC-92ZF-1D1  
**Propeller T.C.:** P-892  
**Blade Model(s):** 8447  
 8447N  
**Prop Diameter:** 84"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.5 +-0.2  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type | Item Number | Description              | Quantity | Qty Per | Comments |
|-----------|-------------|--------------------------|----------|---------|----------|
| BLADE     | 8447        | BLADE UNIT, ALUMINUM     | 2        | Prop    |          |
| BLADE     | 8447N       | PCP:BLADE UNIT, ALUMINUM | 2        | Prop    |          |
| SPINNER   | 837-3       | SPINNER ASSEMBLY         | 1        | Prop    |          |
| SPINNER   | 837-4       | IDS Item                 | 1        | Prop    |          |

**IDS No.:** 183      **Rev.:** 1      **D**      **Date:** 01/07/2011

**Modifier:** D'SHANNON PRODUCTS  
**Engine Model:** IO-470-J  
**Power:** 225 HP @ 2600 RPM  
**Placard/Restr:**

**Notes:** STC Angles are 11.0 (LP) and 26.0 min.(HP) at 33 in Radius.

**Startlock Angle:**  
**Feather/High Angle:** 27.5 +-1.0  
**Cwt Angle:** Positive

**Non-HPI Governor:**

**BEECH**

**Model:** 35-C33  
**Trade Name:** DEBONAIR  
**Aircraft T.C./STC:** 3A15  
**Propeller Model:** PHC-A3MVF-4  
**Propeller T.C.:** P6EA  
**Blade Model(s):** MV8433N-4R  
 MV8433N-4RD  
**Prop Diameter:** 80.0" TO 78.25"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 10.8 +-0.2  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number | Description                   | Quantity | Qty Per | Comments |
|---------------|-------------|-------------------------------|----------|---------|----------|
| BLADE         | MV8433N-4R  | PCP:BLADE UNIT, ALUMINUM      | 3        | Prop    |          |
| BLADE         | MV8433N-4RD | IDS ITEM, BLADE               | 3        | Prop    |          |
| SPINNER       | 837-9       | SPINNER ASSEMBLY              | 1        | Prop    |          |
| MTG BOLT/STUD | A-1328-2    | BOLT,MOUNTING,1/2-20,12 POINT | 6        | Prop    |          |

**IDS No.:** 168      **Rev.:** -      **DM**      **Date:** 05/12/1998

**Modifier:**  
**Engine Model:** IO-470-K  
**Power:** 225 HP @ 2600 RPM  
**Placard/Restr:**

**Notes:**  
**Startlock Angle:** NA  
**Feather/High Angle:** 32.0 MIN.  
**Cwt Angle:** Positive

**Non-HPI Governor:** WOODWARD

# HARTZELL

## APPLICATION GUIDE 159

BEECH

**Model:** S35, V35, V35B, 36, A36  
**Trade Name:** BONANZA  
**Aircraft T.C./STC:** STC-SA785CE  
**Propeller Model:** BHC-C2YF-1B(F)  
**Propeller T.C.:**  
**Blade Model(s):** F8468AR  
**Prop Diameter:** 84" TO 82"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.0 +/-0.2  
**Stud Protrusion** 1.450 +/-0.030

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 179      **Rev.:** 3      **IC Date:** 07/07/2015

**Modifier:** HARTZELL PROPELLER  
**Engine Model:** IO-520-BA,-BB  
**Power:** 285 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 30.0 +/-1.0  
**Cwt Angle:**

**Non-HPI Governor:** WOODWARD, MCCAULEY

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>           | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|------------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | C2F00065           | BHC-C2YF-1BF/F8468AR/SM19    | 1               | A/C            |                          |
| BLADE            | F8468AR            | PCP:BLADE UNIT, ALUM [1,1,1] | 2               | Prop           |                          |
| SPINNER          | A-2295             | SPINNER ASSEMBLY             | 1               | Prop           |                          |
| MTG BOLT/STUD    | A-2429-4           | STUD, MOUNTING, 1/2-20       | 6               | Prop           |                          |
| OVERHAUL KIT     | BHC-C2YF-1BF-OH    | O/H KIT                      | 1               | Prop           | For aftermarket use only |

BEECH

**Model:** J35A  
**Trade Name:** BONANZA  
**Aircraft T.C./STC:** STC-SA686CE  
**Propeller Model:** HC-C3YF-1  
**Propeller T.C.:**  
**Blade Model(s):** F8468A-8R  
**Prop Diameter:** 78"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:**  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 192      **Rev.:** -      **DM Date:** 10/01/1992

**Modifier:** AEROSTOL CO.  
**Engine Model:** IO-520  
**Power:** 250 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:**  
**Cwt Angle:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>           | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|------------------------------|-----------------|----------------|-----------------|
| BLADE            | F8468A-8R          | PCP:BLADE UNIT, ALUM [1,1,1] | 3               | Prop           |                 |
| SPINNER          | C-3535-1           | SPINNER ASSEMBLY             | 1               | Prop           |                 |



# HARTZELL

## APPLICATION GUIDE

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**BEECH**

**Model:** S35,V35,V35A,V35B,36,A36  
**Trade Name:** BONANZA  
**Aircraft T.C./STC:** GERMAN STC  
**Propeller Model:** PHC-C3YF-1RF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** F7663D-2Q  
**Prop Diameter:** 76.0" NO CUT OFF

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 11.3 +-0.1  
**Stud Protrusion** 1.450 +-0.030

**Non-HPI Items:**

**Non-HPI Spinner:**

**IDS No.:** 172      **Rev.:** 2      **IC Date:** 07/16/2015

**Modifier:** MT PROPELLER  
**Engine Model:** IO-520-B, -BA, -BB  
**Power:** 285 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 34.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:** WOODWARD

**Hartzell Approved Items:**

| Item Type     | Item Number     | Description                | Quantity | Qty Per | Comments                                    |
|---------------|-----------------|----------------------------|----------|---------|---|
| PROPELLER     | C3F00130        | PHC-C3YF-1RF/F7663D-2Q/SM7 | 1        | A/C     |   |
| PROPELLER     | C3F00130KD      | PHC-C3YF-1RF/F7663D-2Q/SM7 | 1        | A/C     |   |
| BLADE         | F7663D-2Q       | PCP:BLADE UNIT, ALUMINUM   | 3        | Prop    |   |
| SPINNER       | A-2295-1P       | SPINNER ASSEMBLY           | 1        | Prop    |   |
| SPIN MTG KIT  | A-2476-7        | SPINNER - MTG KIT          | 1        | Prop    |   |
| MTG BOLT/STUD | A-2429-4        | STUD, MOUNTING, 1/2-20     | 6        | Prop    | Use w/E-7154-2R Hub Only                    |
| MTG BOLT/STUD | A-2429-7        | STUD, MOUNTING, 1/2-20     | 6        | Prop    | Use with E-7154-12R or E-7154-42R Hubs Only |
| OVERHAUL KIT  | PHC-C3YF-1RF*1  | O/H KIT W/O SLIMSERTS      | 1        | Prop    | For aftermarket use only                    |
| OVERHAUL KIT  | PHC-C3YF-1RF-OH | O/H KIT                    | 1        | Prop    | For aftermarket use only                    |

**BEECH**

**Model:** (A thru V)35, V35(A,B)  
**Trade Name:** BONANZA  
**Aircraft T.C./STC:** STC-SA2200SW  
**Propeller Model:** PHC-C3YF-1RF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** F8468A-6R  
**Prop Diameter:** 80.0" TO 78.0"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.0 +-0.1  
**Stud Protrusion** 1.450 +-0.030

**Non-HPI Items:**

**Non-HPI Spinner:**

**IDS No.:** 1239      **Rev.:** -      **DM Date:** 02/20/1997

**Modifier:** D'SHANNON PRODUCTS  
**Engine Model:** IO-520-B, -BA, -BB  
**Power:** 285 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 36.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:** WOODWARD

**Hartzell Approved Items:**

| Item Type     | Item Number | Description                  | Quantity | Qty Per | Comments |
|---------------|-------------|------------------------------|----------|---------|----------|
| BLADE         | F8468A-6R   | PCP:BLADE UNIT, ALUM [1,1,1] | 3        | Prop    |          |
| SPINNER       | A-2295-1P   | SPINNER ASSEMBLY             | 1        | Prop    |          |
| SPIN MTG KIT  | A-2476-7    | SPINNER - MTG KIT            | 1        | Prop    |          |
| MTG BOLT/STUD | A-2429-4    | STUD, MOUNTING, 1/2-20       | 6        | Prop    |          |

# HARTZELL

## APPLICATION GUIDE

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BEECH

**Model:** (A thru V)35(A,B)  
**Trade Name:** BONANZA  
**Aircraft T.C./STC:** STC-SA2200SW  
**Propeller Model:** PHC-L3YF-1RF  
**Propeller T.C.:** P41EA  
**Blade Model(s):** F8468A-6R  
**Prop Diameter:** 80.0" TO 78.0"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.0 +-0.1  
**Stud Protrusion:** 1.450 +-0.030

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 1234      **Rev.:** 1      **IC Date:** 07/16/2015

**Modifier:** D'SHANNON PRODUCTS  
**Engine Model:** IO-520-B,-BA,-BB  
**Power:** 285 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 36.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:** WOODWARD

### Hartzell Approved Items:

| Item Type     | Item Number     | Description                  | Quantity | Qty Per | Comments                 |
|---------------|-----------------|------------------------------|----------|---------|--------------------------|
| PROPELLER     | L3F00019        | PHC-L3YF-1RF/F8468A-6R/SM7   | 1        | A/C     |                          |
| BLADE         | F8468A-6R       | PCP:BLADE UNIT, ALUM [1,1,1] | 3        | Prop    |                          |
| SPINNER       | A-2295-1P       | SPINNER ASSEMBLY             | 1        | Prop    |                          |
| SPIN MTG KIT  | A-2476-7        | SPINNER - MTG KIT            | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2429-4        | STUD, MOUNTING, 1/2-20       | 6        | Prop    |                          |
| OVERHAUL KIT  | PHC-L3YF-1RF-OH | O/H KIT                      | 1        | Prop    | For aftermarket use only |

BEECH

**Model:** H35 THRU V35B  
**Trade Name:** BONANZA  
**Aircraft T.C./STC:** STC-SA1773NM  
**Propeller Model:** HC-F2YR-1F  
**Propeller T.C.:** P27EA  
**Blade Model(s):** F8475D-4  
**Prop Diameter:** 80" TO 78"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.5 +-0.1  
**Stud Protrusion:**

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 184      **Rev.:** -      **DM Date:** 04/30/2002

**Modifier:** RAY RAINER  
**Engine Model:** IO-540-K1A5  
**Power:** 300 HP @ 2700 RPM  
**Placard/Restr:** Do not exceed 23" HG below 2250 RPM  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 38.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| Item Type     | Item Number | Description                  | Quantity | Qty Per | Comments |
|---------------|-------------|------------------------------|----------|---------|----------|
| BLADE         | F8475D-4    | PCP:BLADE UNIT, ALUM [1,1,1] | 2        | Prop    |          |
| SPINNER       | A-2295-P    | SPINNER ASSEMBLY             | 1        | Prop    |          |
| MTG BOLT/STUD | A-2067      | STUD, MOUNTING, 1/2-20       | 6        | Prop    |          |

# HARTZELL

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BEECH

**Model:** (A thru V)35, V35(A,B)  
**Trade Name:** BONANZA  
**Aircraft T.C./STC:** STC-SA2200SW  
**Propeller Model:** PHC-C3YF-1RF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** F8468A-6R  
**Prop Diameter:** 80.0" TO 78.0"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.0 +-0.1  
**Stud Protrusion** 1.450 +-0.030

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 1240 **Rev.:** - **DM Date:** 10/02/1996

**Modifier:** D'SHANNON PRODUCTS  
**Engine Model:** IO-550-B  
**Power:** 300 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 36.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:** WOODWARD

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>           | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|------------------------------|-----------------|----------------|-----------------|
| BLADE            | F8468A-6R          | PCP:BLADE UNIT, ALUM [1,1,1] | 3               | Prop           |                 |
| SPINNER          | A-2295-1P          | SPINNER ASSEMBLY             | 1               | Prop           |                 |
| SPIN MTG KIT     | A-2476-7           | SPINNER - MTG KIT            | 1               | Prop           |                 |
| MTG BOLT/STUD    | A-2429-4           | STUD, MOUNTING, 1/2-20       | 6               | Prop           |                 |

BEECH

**Model:** (A thru V)35, V35(A,B)  
**Trade Name:** BONANZA  
**Aircraft T.C./STC:** STC-SA2200SW  
**Propeller Model:** PHC-C3YF-1RF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** F7691  
**Prop Diameter:** 78.0" TO 77.0"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.8 +-0.1  
**Stud Protrusion** 1.450 +-0.030

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 1245 **Rev.:** - **DM Date:** 10/01/1996

**Modifier:** D'SHANNON PRODUCTS  
**Engine Model:** IO-550-B  
**Power:** 300 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 34.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:** WOODWARD

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>           | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|------------------------------|-----------------|----------------|-----------------|
| BLADE            | F7691              | PCP:BLADE UNIT, ALUM [1,1,5] | 3               | Prop           |                 |
| SPINNER          | A-2295-1P          | SPINNER ASSEMBLY             | 1               | Prop           |                 |
| SPIN MTG KIT     | A-2476-7           | SPINNER - MTG KIT            | 1               | Prop           |                 |
| MTG BOLT/STUD    | A-2429-4           | STUD, MOUNTING, 1/2-20       | 6               | Prop           |                 |

# HARTZELL

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**BEECH**

**Model:** (A thru V)35, V35(A,B)  
**Trade Name:** BONANZA  
**Aircraft T.C./STC:** STC-SA2200SW  
**Propeller Model:** PHC-L3YF-1RF  
**Propeller T.C.:** P41EA  
**Blade Model(s):** F8468A-6R  
**Prop Diameter:** 80.0" TO 78.0"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.0 +-0.1  
**Stud Protrusion** 1.450 +-0.030

**Non-HPI Items:**

**Non-HPI Spinner:**

**IDS No.:** 1235      **Rev.:** -      **DM Date:** 10/02/1996

**Modifier:** D'SHANNON PRODUCTS  
**Engine Model:** IO-550-B  
**Power:** 300 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 36.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:** WOODWARD

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>           | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|------------------------------|-----------------|----------------|-----------------|
| BLADE            | F8468A-6R          | PCP:BLADE UNIT, ALUM [1,1,1] | 3               | Prop           |                 |
| SPINNER          | A-2295-1P          | SPINNER ASSEMBLY             | 1               | Prop           |                 |
| SPIN MTG KIT     | A-2476-7           | SPINNER - MTG KIT            | 1               | Prop           |                 |
| MTG BOLT/STUD    | A-2429-4           | STUD, MOUNTING, 1/2-20       | 6               | Prop           |                 |

**BEECH**

**Model:** 36, A36  
**Trade Name:** BONANZA  
**Aircraft T.C./STC:** 3A15  
**Propeller Model:** PHC-C3YF-1RF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** F7663-2R  
 F7663K-2R  
**Prop Diameter:** 76.0" TO 75.5"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 17.5 +-0.1  
**Stud Protrusion** 1.450 +-0.030

**Non-HPI Items:**

**Non-HPI Spinner:**

**IDS No.:** 200      **Rev.:** -      **DM Date:** 11/20/2006

**Modifier:**  
**Engine Model:** IO-520-B,-BA,-BB; IO-550-B  
**Power:** 285 HP @ 2550 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 33.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:** MCCAULEY

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>       | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|--------------------------|-----------------|----------------|--------------------------|
| BLADE            | F7663-2R           | PCP:BLADE UNIT, ALUMINUM | 3               | Prop           |                          |
| BLADE            | F7663K-2R          | IDS ITEM, 4E2200-2       | 3               | Prop           |                          |
| SPINNER          | A-2295-1P          | SPINNER ASSEMBLY         | 1               | Prop           |                          |
| SPIN MTG KIT     | A-2476-7           | SPINNER - MTG KIT        | 1               | Prop           |                          |
| DE-ICER          | 4H2200-2           | DE-ICE BOOT              | 1               | Blade          | Supersedes 7931-4E2202-2 |
| DE-ICE KIT PR    | 7931-67-275        | IDS ITEM - DE-ICE KIT    | 1               | Prop           |                          |
| MTG BOLT/STUD    | A-2429-4           | STUD, MOUNTING, 1/2-20   | 6               | Prop           |                          |

# HARTZELL

BEECH

**Model:** 36, A36  
**Trade Name:** BONANZA  
**Aircraft T.C./STC:** 3A15  
**Propeller Model:** PHC-C3YF-1RF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** F8468A-6R  
**Prop Diameter:** 80" TO 78"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.0 +-0.2  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>           | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|------------------------------|-----------------|----------------|-----------------|
| BLADE            | F8468A-6R          | PCP:BLADE UNIT, ALUM [1,1,1] | 3               | Prop           |                 |
| SPINNER          | A-2295-1P          | SPINNER ASSEMBLY             | 1               | Prop           |                 |

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**IDS No.:** 199      **Rev.:** -      **DM Date:** 10/01/1992

**Modifier:**  
**Engine Model:** IO-520-B,-BA,-BB  
**Power:** 285 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 36.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:** WOODWARD

# HARTZELL

## APPLICATION GUIDE 159

BEECH

IDS No.: 205 Rev.: 2 IC Date: 07/16/2015

**Model:** A36TC  
**Trade Name:** BONANZA  
**Aircraft T.C./STC:** 3A15  
**Propeller Model:** PHC-C3YF-1RF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** F8468A-6R  
 F8468AK-6R  
**Prop Diameter:** 80.0" TO 78.0"

**Modifier:**  
**Engine Model:** TSIO-520-U,-UB  
**Power:** 300 HP @ 2700 RPM  
**Placard/Restr:**

**Notes:** Ink stamp blades with Beech P/N 36-960001-1 below Hartzell ink stamp identification. Metal stamp hub -1, within a circle, above Hartzell metal stamp identification. Do not confuse angle settings with those specified for other Bonanza aircraft with same propeller model.

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.0 +-0.2  
**Stud Protrusion** 1.450 +-0.030

**Startlock Angle:** NA  
**Feather/High Angle:** 36.0 +-1.0  
**Cwt Angle:**

### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:** WOODWARD

### Hartzell Approved Items:

| Item Type     | Item Number     | Description                  | Quantity | Qty Per | Comments                                   |
|---------------|-----------------|------------------------------|----------|---------|--|
| PROPELLER     | C3F00004        | PHC-C3YF-1RF/F8468AK-6R/SM7  | 1        | A/C     |  |
| BLADE         | F8468A-6R       | PCP:BLADE UNIT, ALUM [1,1,1] | 3        | Prop    |  |
| BLADE         | F8468AK-6R      | PCP:BLADE UNIT, ALUMINUM     | 3        | Prop    |  |
| SPINNER       | A-2295-1P       | SPINNER ASSEMBLY             | 1        | Prop    |  |
| SPIN MTG KIT  | A-2476-7        | SPINNER - MTG KIT            | 1        | Prop    |  |
| DE-ICER       | 2H1291          | STRAP, RESTRAINER, DE-ICE    | 1        | Blade   | Blade component(on booted bld)             |
| DE-ICER       | 4H2200-2        | DE-ICE BOOT                  | 1        | Blade   | Supersedes 7931-4E2200-2                   |
| DE-ICE KIT PR | 7931-67-275     | IDS ITEM - DE-ICE KIT        | 1        | Prop    |  |
| MTG BOLT/STUD | A-2429-4        | STUD, MOUNTING, 1/2-20       | 6        | Prop    | Use w/E-7154-2R Hub Only                   |
| MTG BOLT/STUD | A-2429-7        | STUD, MOUNTING, 1/2-20       | 6        | Prop    | Use with E-7154-12R & E-7154-42R hubs only |
| OVERHAUL KIT  | PHC-C3YF-1RF*1  | O/H KIT W/O SLIMSERTS        | 1        | Prop    | For aftermarket use only                   |
| OVERHAUL KIT  | PHC-C3YF-1RF-OH | O/H KIT                      | 1        | Prop    | For aftermarket use only                   |

# HARTZELL

## APPLICATION GUIDE 159

BEECH

**Model:** 36, A36  
**Trade Name:** BONANZA  
**Aircraft T.C./STC:** STC-SA2200SW  
**Propeller Model:** PHC-L3YF-1RF  
**Propeller T.C.:** P41EA  
**Blade Model(s):** F8468A-6R  
**Prop Diameter:** 80.0" TO 78.0"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.0 +-0.1  
**Stud Protrusion** 1.450 +-0.030

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 1236      **Rev.:** -      **DM Date:** 02/20/1997

**Modifier:** D'SHANNON PRODUCTS  
**Engine Model:** IO-520-B,-BA,-BB  
**Power:** 285 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 36.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:** WOODWARD

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>           | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|------------------------------|-----------------|----------------|-----------------|
| BLADE            | F8468A-6R          | PCP:BLADE UNIT, ALUM [1,1,1] | 3               | Prop           |                 |
| SPINNER          | A-2295-1P          | SPINNER ASSEMBLY             | 1               | Prop           |                 |
| SPIN MTG KIT     | A-2476-7           | SPINNER - MTG KIT            | 1               | Prop           |                 |
| MTG BOLT/STUD    | A-2429-4           | STUD, MOUNTING, 1/2-20       | 6               | Prop           |                 |

BEECH

**Model:** 36, A36  
**Trade Name:** BONANZA  
**Aircraft T.C./STC:** STC-SA2200SW  
**Propeller Model:** PHC-C3YF-1RF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** F7691  
**Prop Diameter:** 78.0" TO 77.0"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.8 +-0.1  
**Stud Protrusion** 1.450 +-0.030

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 1246      **Rev.:** -      **DM Date:** 02/20/1997

**Modifier:** D'SHANNON PRODUCTS  
**Engine Model:** IO-520-B, -BA, -BB  
**Power:** 285 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 34.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:** WOODWARD

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>           | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|------------------------------|-----------------|----------------|-----------------|
| BLADE            | F7691              | PCP:BLADE UNIT, ALUM [1,1,5] | 3               | Prop           |                 |
| SPINNER          | A-2295-1P          | SPINNER ASSEMBLY             | 1               | Prop           |                 |
| SPIN MTG KIT     | A-2476-7           | SPINNER - MTG KIT            | 1               | Prop           |                 |
| MTG BOLT/STUD    | A-2429-4           | STUD, MOUNTING, 1/2-20       | 6               | Prop           |                 |

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**BEECH**

**Model:** 36, A36  
**Trade Name:** BONANZA  
**Aircraft T.C./STC:** STC-SA2200SW  
**Propeller Model:** PHC-C3YF-1RF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** F8468A-6R  
**Prop Diameter:** 80.0" TO 78.0"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.0 +-0.1  
**Stud Protrusion** 1.450 +-0.030

**Non-HPI Items:**

**Non-HPI Spinner:**

**IDS No.:** 1241      **Rev.:** -      **DM Date:** 02/20/1997

**Modifier:** D'SHANNON PRODUCTS  
**Engine Model:** IO-520-B, -BA, -BB  
**Power:** 285 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 36.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:** WOODWARD

**Hartzell Approved Items:**

| Item Type     | Item Number | Description                  | Quantity | Qty Per | Comments |
|---------------|-------------|------------------------------|----------|---------|----------|
| BLADE         | F8468A-6R   | PCP:BLADE UNIT, ALUM [1,1,1] | 3        | Prop    |          |
| SPINNER       | A-2295-1P   | SPINNER ASSEMBLY             | 1        | Prop    |          |
| SPIN MTG KIT  | A-2476-7    | SPINNER - MTG KIT            | 1        | Prop    |          |
| MTG BOLT/STUD | A-2429-4    | STUD, MOUNTING, 1/2-20       | 6        | Prop    |          |

**BEECH**

**Model:** 36, A36  
**Trade Name:** BONANZA  
**Aircraft T.C./STC:** STC-SA450CH  
**Propeller Model:** PHC-C3YF-1RF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** F7691  
**Prop Diameter:** 78.0" TO 77.0"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.8 +-0.1  
**Stud Protrusion** 1.450 +-0.030

**Non-HPI Items:**

**Non-HPI Spinner:**

**IDS No.:** 1179      **Rev.:** 2      **IC Date:** 07/16/2015

**Modifier:** D'SHANNON PRODUCTS  
**Engine Model:** IO-520-B, -BA, -BB  
**Power:** 285 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 34.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:** WOODWARD

**Hartzell Approved Items:**

| Item Type     | Item Number     | Description                  | Quantity | Qty Per | Comments                                   |
|---------------|-----------------|------------------------------|----------|---------|--|
| PROPELLER     | C3F00031        | PHC-C3YF-1RF/F7691/SM7       | 1        | A/C     |  |
| PROPELLER     | C3F00031KD      | PHC-C3YF-1RF/F7691/SM7       | 1        | A/C     |  |
| BLADE         | F7691           | PCP:BLADE UNIT, ALUM [1,1,5] | 3        | Prop    |  |
| SPINNER       | A-2295-1P       | SPINNER ASSEMBLY             | 1        | Prop    |  |
| SPIN MTG KIT  | A-2476-7        | SPINNER - MTG KIT            | 1        | Prop    |  |
| MTG BOLT/STUD | A-2429-4        | STUD, MOUNTING, 1/2-20       | 6        | Prop    | Use w/E-7154-2R Hub Only                   |
| MTG BOLT/STUD | A-2429-7        | STUD, MOUNTING, 1/2-20       | 6        | Prop    | Use with E-7154-12R & E-7154-42R hubs only |
| OVERHAUL KIT  | PHC-C3YF-1RF*1  | O/H KIT W/O SLIMSERTS        | 1        | Prop    | For aftermarket use only                   |
| OVERHAUL KIT  | PHC-C3YF-1RF-OH | O/H KIT                      | 1        | Prop    | For aftermarket use only                   |



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**BEECH**

IDS No.: 1532      Rev.: 3      IC Date: 07/16/2015

**Model:** B36TC  
**Trade Name:** BONANZA  
**Aircraft T.C./STC:** STC-SA00718LA  
**Propeller Model:** PHC-C3YF-1RF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** F8468A-8R  
                           F8468AK-8R  
**Prop Diameter:** 78.0" TO 77.0"

**Modifier:** HARTZELL PROPELLER  
**Engine Model:** TSIO-520-U,-UB  
**Power:** 300 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:** Raytheon OEM; For additional configuration details see drawing D-6971

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.0 +-0.2  
**Stud Protrusion** 1.450 +-0.030

**Startlock Angle:** NA  
**Feather/High Angle:** 36.0 +-1.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:** WOODWARD D210760

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>            | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>                            |
|------------------|--------------------|-------------------------------|-----------------|----------------|--|
| PROPELLER        | C3F00127           | PHC-C3YF-1RF/F8468A-8R/SM7    | 1               | A/C            |  |
| PROPELLER        | C3F00127-10        | PHC-C3YF-1RF/F8468A-8R/+SPIN  | 1               | A/C            |  |
| PROPELLER        | C3F00127-11        | PHC-C3YF-1RF/F8468AK-8R/+SPIN | 1               | A/C            |  |
| BLADE            | F8468A-8R          | PCP:BLADE UNIT, ALUM [1,1,1]  | 3               | Prop           |  |
| BLADE            | F8468AK-8R         | PCP:BLADE UNIT, ALUMINUM      | 3               | Prop           |  |
| SPINNER          | A-2295-2P          | SPINNER ASSEMBLY              | 1               | Prop           |  |
| SPIN MTG KIT     | A-2476-7           | SPINNER - MTG KIT             | 1               | Prop           |  |
| DE-ICER          | 2H1291             | STRAP, RESTRAINER, DE-ICE     | 1               | Blade          | Blade component(on booted bld)             |
| DE-ICER          | 4H2200-2           | DE-ICE BOOT                   | 1               | Blade          | Supersedes 7931-4E2200-2                   |
| DE-ICE KIT PR    | 7931-67-941-1      | DE-ICE KIT (ONE PROP)         | 1               | Prop           |  |
| DE-ICE KIT A/F   | 7931-67-941-2      | AIRFRAME DE-ICE KIT           | 1               | A/C            |  |
| MTG BOLT/STUD    | A-2429-4           | STUD, MOUNTING, 1/2-20        | 6               | Prop           | Use w/E-7154-2R Hub Only                   |
| MTG BOLT/STUD    | A-2429-7           | STUD, MOUNTING, 1/2-20        | 6               | Prop           | Use with E-7154-12R & E-7154-42R hubs only |
| OVERHAUL KIT     | PHC-C3YF-1RF*1     | O/H KIT W/O SLIMSERTS         | 1               | Prop           | For aftermarket use only                   |
| OVERHAUL KIT     | PHC-C3YF-1RF-OH    | O/H KIT                       | 1               | Prop           | For aftermarket use only                   |

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BEECH

IDS No.: 1596 Rev.: 3 IC Date: 07/16/2015

**Model:** B36TC  
**Trade Name:** BONANZA  
**Aircraft T.C./STC:** STC-SA00718LA  
**Propeller Model:** PHC-C3YF-1RF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** F8468A-8R  
                           F8468A-8R\*1  
                           F8468AK-8R  
**Prop Diameter:** 78.0" TO 77.0"

**Modifier:** HARTZELL PROPELLER  
**Engine Model:** TSIO-520-U,-UB  
**Power:** 300 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.0 +-0.2  
**Stud Protrusion** 1.450 +-0.030

**Startlock Angle:** NA  
**Feather/High Angle:** 36.0 +-1.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:** WOODWARD D210760

**Hartzell Approved Items:**

| Item Type      | Item Number     | Description                   | Quantity | Qty Per | Comments                                    |
|----------------|-----------------|-------------------------------|----------|---------|---|
| PROPELLER      | C3F00128        | PHC-C3YF-1RF/F8468A-8R/SM7    | 1        | A/C     |   |
| PROPELLER      | C3F00128KD      | PHC-C3YF-1RF/F8468A-8R/SM7    | 1        | A/C     |   |
| PROPELLER      | C3F00128SKDTP   | C3F00128/SM7/A-2295-2P        | 1        | A/C     |   |
| PROPELLER      | C3F00128STP     | C3F00128/SM7/A-2295-2P        | 1        | A/C     |   |
| PROPELLER      | C3F00140        | PHC-C3YF-1RF/F8468AK-8R/SM7   | 1        | A/C     |   |
| PROPELLER      | C3F00140SKDTP   | C3F00140/SM7/A-2295-2P/DE-ICE | 1        | A/C     |   |
| PROPELLER      | C3F00140STP     | C3F00140/SM7/A-2295-2P/DE-ICE | 1        | A/C     |   |
| BLADE          | F8468A-8R       | PCP:BLADE UNIT, ALUM [1,1,1]  | 3        | Prop    |   |
| BLADE          | F8468A-8R*1     | IDS ITEM, BLADE, [3,1,1]      | 3        | Prop    |   |
| BLADE          | F8468AK-8R      | PCP:BLADE UNIT, ALUMINUM      | 3        | Prop    |   |
| SPINNER        | A-2295-2P       | SPINNER ASSEMBLY              | 1        | Prop    |   |
| SPIN MTG KIT   | A-2476-7        | SPINNER - MTG KIT             | 1        | Prop    |   |
| DE-ICER        | 2H1291          | STRAP, RESTRAINER, DE-ICE     | 1        | Blade   | Blade component(on booted bld)              |
| DE-ICER        | 4H2200-2        | DE-ICE BOOT                   | 1        | Blade   | Supersedes 7931-4E2200-2                    |
| DE-ICE KIT PR  | 7931-67-941-1   | DE-ICE KIT (ONE PROP)         | 1        | Prop    |   |
| DE-ICE KIT A/F | 7931-67-941-2   | AIRFRAME DE-ICE KIT           | 1        | A/C     |   |
| MTG BOLT/STUD  | A-2429-4        | STUD, MOUNTING, 1/2-20        | 6        | Prop    | Use w/E-7154-2R Hub Only                    |
| MTG BOLT/STUD  | A-2429-7        | STUD, MOUNTING, 1/2-20        | 6        | Prop    | Use with E-7154-12R or E-7154-42R Hubs Only |
| OVERHAUL KIT   | PHC-C3YF-1RF*1  | O/H KIT W/O SLIMSERTS         | 1        | Prop    | For aftermarket use only                    |
| OVERHAUL KIT   | PHC-C3YF-1RF-OH | O/H KIT                       | 1        | Prop    | For aftermarket use only                    |

# HARTZELL

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**BEECH**

**Model:** A36  
**Trade Name:** BONANZA  
**Aircraft T.C./STC:** STC-SA762NM  
**Propeller Model:** HC-F3YR-1RF  
**Propeller T.C.:** P31EA  
**Blade Model(s):** F8468A-8Q  
**Prop Diameter:** 78"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.4 +-0.1  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 203      **Rev.:** 1      **IC Date:** 07/16/2015

**Modifier:** MACHEN INC.  
**Engine Model:** TIO-540-J2BD  
**Power:** 350 HP @ 2575 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 34.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| Item Type     | Item Number    | Description                  | Quantity | Qty Per | Comments                 |
|---------------|----------------|------------------------------|----------|---------|--------------------------|
| PROPELLER     | F3R00007       | HC-F3YR-1RF/F8468A-8Q        | 1        | A/C     |                          |
| BLADE         | F8468A-8Q      | PCP:BLADE UNIT, ALUM [1,1,1] | 3        | Prop    |                          |
| SPINNER       | A-2295-1P      | SPINNER ASSEMBLY             | 1        | Prop    |                          |
| GOVERNOR      | F4-13          | GOVERNOR ASSEMBLY, F-4-( )   | 1        | A/C     |                          |
| MTG BOLT/STUD | A-2067         | STUD, MOUNTING, 1/2-20       | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-F3YR-1RF-OH | O/H KIT                      | 1        | Prop    | For aftermarket use only |

**BEECH**

**Model:** 36, A36  
**Trade Name:** BONANZA  
**Aircraft T.C./STC:** STC-SA2200SW  
**Propeller Model:** PHC-L3YF-1RF  
**Propeller T.C.:** P41EA  
**Blade Model(s):** F8468A-6R  
**Prop Diameter:** 80.0" TO 78.0"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.0 +-0.1  
**Stud Protrusion** 1.450 +-0.030

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 1237      **Rev.:** -      **DM Date:** 10/02/1996

**Modifier:** D'SHANNON PRODUCTS  
**Engine Model:** IO-550-B  
**Power:** 300 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 36.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:** WOODWARD

### Hartzell Approved Items:

| Item Type     | Item Number | Description                  | Quantity | Qty Per | Comments |
|---------------|-------------|------------------------------|----------|---------|----------|
| BLADE         | F8468A-6R   | PCP:BLADE UNIT, ALUM [1,1,1] | 3        | Prop    |          |
| SPINNER       | A-2295-1P   | SPINNER ASSEMBLY             | 1        | Prop    |          |
| SPIN MTG KIT  | A-2476-7    | SPINNER - MTG KIT            | 1        | Prop    |          |
| MTG BOLT/STUD | A-2429-4    | STUD, MOUNTING, 1/2-20       | 6        | Prop    |          |

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BEECH

**Model:** 36, A36  
**Trade Name:** BONANZA  
**Aircraft T.C./STC:** STC-SA2200SW  
**Propeller Model:** PHC-C3YF-1RF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** F8468A-6R  
**Prop Diameter:** 80.0" TO 78.0"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.0 +-0.1  
**Stud Protrusion** 1.450 +-0.030

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 1242      **Rev.:** -      **DM Date:** 10/02/1996

**Modifier:** D'SHANNON PRODUCTS  
**Engine Model:** IO-550-B  
**Power:** 300 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 36.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:** WOODWARD

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>           | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|------------------------------|-----------------|----------------|-----------------|
| BLADE            | F8468A-6R          | PCP:BLADE UNIT, ALUM [1,1,1] | 3               | Prop           |                 |
| SPINNER          | A-2295-1P          | SPINNER ASSEMBLY             | 1               | Prop           |                 |
| SPIN MTG KIT     | A-2476-7           | SPINNER - MTG KIT            | 1               | Prop           |                 |
| MTG BOLT/STUD    | A-2429-4           | STUD, MOUNTING, 1/2-20       | 6               | Prop           |                 |

BEECH

**Model:** 36, A36  
**Trade Name:** BONANZA  
**Aircraft T.C./STC:** STC-SA2200SW  
**Propeller Model:** PHC-C3YF-1RF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** F7691  
**Prop Diameter:** 78.0" TO 77.0"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.8 +-0.1  
**Stud Protrusion** 1.450 +-0.030

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 1247      **Rev.:** -      **DM Date:** 10/01/1996

**Modifier:** D'SHANNON PRODUCTS  
**Engine Model:** IO-550-B  
**Power:** 300 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 34.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:** WOODWARD

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>           | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|------------------------------|-----------------|----------------|-----------------|
| BLADE            | F7691              | PCP:BLADE UNIT, ALUM [1,1,5] | 3               | Prop           |                 |
| SPINNER          | A-2295-1P          | SPINNER ASSEMBLY             | 1               | Prop           |                 |
| SPIN MTG KIT     | A-2476-7           | SPINNER - MTG KIT            | 1               | Prop           |                 |
| MTG BOLT/STUD    | A-2429-4           | STUD, MOUNTING, 1/2-20       | 6               | Prop           |                 |

# HARTZELL

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BEECH

IDS No.: 1178 Rev.: 2 IC Date: 07/16/2015

**Model:** A36  
**Trade Name:** BONANZA  
**Aircraft T.C./STC:** STC-SA450CH  
**Propeller Model:** PHC-C3YF-1RF  
**Propeller T.C.:** P25EA

**Modifier:** D'SHANNON PRODUCTS  
**Engine Model:** IO-550-B  
**Power:** 300 HP @ 2700 RPM  
**Placard/Restr:** Do not exceed 20 in. manifold pressure below 2250 RPM.

**Blade Model(s):** F7691  
**Prop Diameter:** 78.0" TO 77.0"

**Notes:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.8 +-0.1  
**Stud Protrusion** 1.450 +-0.030

**Startlock Angle:** NA  
**Feather/High Angle:** 34.0 +-1.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:** WOODWARD

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>           | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>                            |
|------------------|--------------------|------------------------------|-----------------|----------------|--|
| PROPELLER        | C3F00029           | PHC-C3YF-1RF/F7691/SM7       | 1               | A/C            |  |
| BLADE            | F7691              | PCP:BLADE UNIT, ALUM [1,1,5] | 3               | Prop           |  |
| SPINNER          | A-2295-1P          | SPINNER ASSEMBLY             | 1               | Prop           |  |
| SPIN MTG KIT     | A-2476-7           | SPINNER - MTG KIT            | 1               | Prop           |  |
| MTG BOLT/STUD    | A-2429-4           | STUD, MOUNTING, 1/2-20       | 6               | Prop           | USE WITH E-7154-2R HUB ONLY                |
| MTG BOLT/STUD    | A-2429-7           | STUD, MOUNTING, 1/2-20       | 6               | Prop           | Use with E-7154-12R & E-7154-42R hubs only |
| OVERHAUL KIT     | PHC-C3YF-1RF*1     | O/H KIT W/O SLIMSERTS        | 1               | Prop           | For aftermarket use only                   |
| OVERHAUL KIT     | PHC-C3YF-1RF-OH    | O/H KIT                      | 1               | Prop           | For aftermarket use only                   |

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**BEECH**

IDS No.: 1597      Rev.: 4      IC      Date: 07/16/2015

**Model:** A36, G36  
**Trade Name:** BONANZA  
**Aircraft T.C./STC:** STC-SA00719LA  
**Propeller Model:** PHC-C3YF-1RF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** F8468A-6R  
 F8468AK-6R  
**Prop Diameter:** 80.0" TO 78.0"

**Modifier:** HARTZELL PROPELLER  
**Engine Model:** IO-550-B  
**Power:** 300 HP @ 2700 RPM  
**Placard/Restr:**

**Notes:** Aftermarket installation - Refer to IDS no. 1531 for OEM installation. For additional details see drawing D-6971.

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.0 +-0.2  
**Stud Protrusion** 1.450 +-0.030

**Startlock Angle:** NA  
**Feather/High Angle:** 36.0 +-1.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:** WOODWARD D210760

**Hartzell Approved Items:**

| Item Type      | Item Number     | Description                   | Quantity | Qty Per | Comments                                    |
|----------------|-----------------|-------------------------------|----------|---------|---|
| PROPELLER      | C3F00117        | PHC-C3YF-1RF/F8468A-6R/SM7    | 1        | A/C     |   |
| PROPELLER      | C3F00117KD      | PHC-C3YF-1RF/F8468A-6R/SM7    | 1        | A/C     |   |
| PROPELLER      | C3F00117SKDTP   | C3F00117/SM7/A-2295-2P        | 1        | A/C     |   |
| PROPELLER      | C3F00117STP     | C3F00117/SM7/A-2295-2P        | 1        | A/C     |   |
| PROPELLER      | C3F00135        | PHC-C3YF-1RF/F8468AK-6R/SM7   | 1        | A/C     |   |
| PROPELLER      | C3F00135KD      | PHC-C3YF-1RF/F8468AK-6R/SM7   | 1        | A/C     |   |
| PROPELLER      | C3F00135SKDTP   | C3F00135/SM7/A-2295-2P/DE-ICE | 1        | A/C     |   |
| PROPELLER      | C3F00135STP     | C3F00135/SM7/A-2295-2P/DE-ICE | 1        | A/C     |   |
| BLADE          | F8468A-6R       | PCP:BLADE UNIT, ALUM [1,1,1]  | 3        | Prop    |   |
| BLADE          | F8468AK-6R      | PCP:BLADE UNIT, ALUMINUM      | 3        | Prop    |   |
| SPINNER        | A-2295-2P       | SPINNER ASSEMBLY              | 1        | Prop    |   |
| SPIN MTG KIT   | A-2476-7        | SPINNER - MTG KIT             | 1        | Prop    |   |
| DE-ICER        | 2H1291          | STRAP, RESTRAINER, DE-ICE     | 1        | Blade   | Blade component(on booted bld)              |
| DE-ICER        | 4H2200-2        | DE-ICE BOOT                   | 1        | Blade   | Supersedes 7931-4E2200-2                    |
| DE-ICE KIT PR  | 7931-67-941-1   | DE-ICE KIT (ONE PROP)         | 1        | Prop    |   |
| DE-ICE KIT A/F | 7931-67-941-2   | AIRFRAME DE-ICE KIT           | 1        | A/C     |   |
| MTG BOLT/STUD  | A-2429-4        | STUD, MOUNTING, 1/2-20        | 6        | Prop    | Use w/E-7154-2R Hub Only                    |
| MTG BOLT/STUD  | A-2429-7        | STUD, MOUNTING, 1/2-20        | 6        | Prop    | Use with E-7154-12R or E-7154-42R Hubs Only |
| OVERHAUL KIT   | PHC-C3YF-1RF*1  | O/H KIT W/O SLIMSERTS         | 1        | Prop    | For aftermarket use only                    |
| OVERHAUL KIT   | PHC-C3YF-1RF-OH | O/H KIT                       | 1        | Prop    | For aftermarket use only                    |

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**BEECH**

**Model:** A36, G36  
**Trade Name:** BONANZA  
**Aircraft T.C./STC:** STC-SA00719LA  
**Propeller Model:** PHC-C3YF-1RF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** F8468A-6R  
 F8468AK-6R  
**Prop Diameter:** 80.0" TO 78.0"

**IDS No.:** 1531      **Rev.:** 6      **IC Date:** 07/16/2015

**Modifier:** HARTZELL PROPELLER  
**Engine Model:** IO-550-B  
**Power:** 300 HP @ 2700 RPM  
**Placard/Restr:**

**Notes:** Raytheon OEM; For additional configuration details see drawing D-6971. refer to IDS No. 1597 for aftermarket installation.

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.0 +-0.2  
**Stud Protrusion** 1.450 +-0.030

**Startlock Angle:** NA  
**Feather/High Angle:** 36.0 +-1.0  
**Cwt Angle:**

### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:** WOODWARD D210760

### Hartzell Approved Items:

| Item Type      | Item Number     | Description                   | Quantity | Qty Per | Comments   |
|----------------|-----------------|-------------------------------|----------|---------|--|
| PROPELLER      | C3F00118        | PHC-C3YF-1RF/F8468A-6R/SM7    | 1        | A/C     | Basic propeller  |
| PROPELLER      | C3F00118-10     | PHC-C3YF-1RF/F8468A-6R/+SPIN  | 1        | A/C     | Propeller with spinner   |
| PROPELLER      | C3F00118-11     | PHC-C3YF-1RF/F8468AK-6R/+SPIN | 1        | A/C     | Prop with de-icers on blades, but excludes prop side de-ice kit components. Spinner is included.   |
| PROPELLER      | C3F00118-11KD   | PHC-C3YF-1RF/F8468AK-6R/+SPIN | 1        | A/C     | Propeller with spinner   |
| BLADE          | F8468A-6R       | PCP:BLADE UNIT, ALUM [1,1,1]  | 3        | Prop    | Blade without de-ice boot  |
| BLADE          | F8468AK-6R      | PCP:BLADE UNIT, ALUMINUM      | 3        | Prop    | Blade with de-ice boot   |
| SPINNER        | A-2295-2P       | SPINNER ASSEMBLY              | 1        | Prop    | Polished spinner   |
| SPIN MTG KIT   | A-2476-7        | SPINNER - MTG KIT             | 1        | Prop    | Included with every prop on this IDS   |
| DE-ICER        | 2H1291          | STRAP, RESTRAINER, DE-ICE     | 1        | Blade   | Blade component(on booted bld)   |
| DE-ICER        | 4H2200-2        | DE-ICE BOOT                   | 1        | Blade   | Supersedes 7931-4E2200-2   |
| DE-ICE KIT PR  | 7931-67-941-1   | DE-ICE KIT (ONE PROP)         | 1        | Prop    | Prop de-ice kit sold separately  |
| DE-ICE KIT A/F | 7931-67-941-2   | AIRFRAME DE-ICE KIT           | 1        | A/C     | Airframe de-ice kit sold separately  |
| MTG BOLT/STUD  | A-2429-4        | STUD, MOUNTING, 1/2-20        | 6        | Prop    | Mounting studs are included with propeller. A-2429-4 Stud is used with E-7154-2R Hub only. (E-7154-2R hub has been superseded by E-7154-12R) |
| MTG BOLT/STUD  | A-2429-7        | STUD, MOUNTING, 1/2-20        | 6        | Prop    | Mounting studs are included with propeller. Use with E-7154-12R or E-7154-42R Hubs Only  |
| OVERHAUL KIT   | PHC-C3YF-1RF*1  | O/H KIT W/O SLIMSERTS         | 1        | Prop    | For aftermarket use only   |
| OVERHAUL KIT   | PHC-C3YF-1RF-OH | O/H KIT                       | 1        | Prop    | For aftermarket use only   |

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**BEECH**

**Model:** A36  
**Trade Name:** STARFIRE BONANZA  
**Aircraft T.C./STC:** STC-SA1835SO  
**Propeller Model:** HC-C4YF-1E  
**Propeller T.C.:** P52GL

**Blade Model(s):** F7063Q  
**Prop Diameter:** 73.75" NO CUT OFF

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.5 +-0.1  
**Stud Protrusion** 1.450 +-0.030

**Non-HPI Items:**

**Non-HPI Spinner:**

**IDS No.:** 185      **Rev.:** 1      **IC**    **Date:** 07/15/2015

**Modifier:** COLEMILL  
**Engine Model:** IO-550-B  
**Power:** 300 HP @ 2700 RPM  
**Placard/Restr:** Avoid continuous ground operation between 2250 and 2450 RPM. Recommend pre-flight propeller cycling at 1600 RPM or below.  
**Notes:** B-2984-4 flange spacer needed with this propeller.

**Startlock Angle:** NA  
**Feather/High Angle:** 35.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:** WOODWARD

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>       | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|--------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | C4F00005           | HC-C4YF-1E/F7063Q/SM20   | 1               | A/C            |                          |
| PROPELLER        | C4F00005KD         | HC-C4YF-1E/F7063Q/SM20   | 1               | A/C            |                          |
| BLADE            | F7063Q             | PCP:BLADE UNIT, ALUMINUM | 4               | Prop           |                          |
| SPINNER          | D-4511-1P          | SPINNER ASSEMBLY         | 1               | Prop           |                          |
| SPINNER          | D-5421-P           | SPINNER ASSEMBLY         | 1               | Prop           |                          |
| SPIN MTG KIT     | A-2476-20          | SPINNER - MTG KIT        | 1               | Prop           |                          |
| MTG BOLT/STUD    | B-1738             | STUD, MOUNTING, 1/2-20   | 6               | Prop           | See note                 |
| OVERHAUL KIT     | HC-C4YF-1E-OH      | O/H KIT                  | 1               | Prop           | For aftermarket use only |



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**BEECH**

**Model:** A36, A36TC  
**Trade Name:** BONANZA  
**Aircraft T.C./STC:** STC-SA3523NM  
**Propeller Model:** HC-B3TF-7A  
**Propeller T.C.:** P15EA  
**Blade Model(s):** T9212K-2\*1  
 T9212NK-2\*1  
**Prop Diameter:** 90.0" TO 88.0"

**IDS No.:** 201      **Rev.:** 2      **IC Date:** 07/15/2015

**Modifier:** TRADEWIND TURBINES  
**Engine Model:** 250-B17F/2  
**Power:** 440 HP @ 2030 RPM  
**Placard/Restr:**

**Notes:** This STC was formerly held by Soloy and is now held by Turbine Power Company, who has licensed its use to Tradewind Turbines; 7E1596 ELIGIBLE FOR O/H PROPS ONLY.

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** -10.0 +-0.5  
**Low Pitch Angle:** NA  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 86.2 +-0.5  
**Cwt Angle:** 1.5 +-1.0

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u>   | <u>Item Number</u> | <u>Description</u>             | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>           |
|--------------------|--------------------|--------------------------------|-----------------|----------------|---------------------------|
| PROPELLER          | B3F10091           | HC-B3TF-7A/T9212NK-2*1/BULK/DE | 1               | A/C            |                           |
| PROPELLER          | B3F10091S          | HC-B3TF-7A/T9212NK-2*1/POLISHD | 1               | A/C            |                           |
| PROPELLER          | B3F10095S          | HC-B3TF-7A/T9212NK-2*1/835-39E | 1               | A/C            |                           |
| BLADE              | T9212K-2*1         | IDS*ITEM, BLADE,4E3048-10 BOOT | 3               | Prop           |                           |
| BLADE              | T9212NK-2*1        | T9212N-2 BLADE,4H3048-10 BOOT  | 3               | Prop           |                           |
| SPINNER            | 835-39E            | SPINNER ASSEMBLY               | 1               | Prop           |                           |
| SPINNER            | 835-39EP           | SPINNER ASSEMBLY               | 1               | Prop           |                           |
| SPIN MTG KIT       | A-3491             | SPINNER - MTG KIT              | 1               | Prop           |                           |
| SP MT KIT DE-ICE   | B-3384-23          | BOLT, 1/4-28, HEX HEAD         | 6               | Prop           |                           |
| SP MT KIT DE-ICE   | B-3808-4           | NUT,HEX,SELF-LOCKING           | 6               | Prop           |                           |
| SP MT KIT DE-ICE   | B-3837-0432        | WASHER, CORROSION RESISTANT    | 18              | Prop           |                           |
| SP MT KIT DE-ICE   | B-3837-0463        | WASHER, CORROSION RESISTANT    | 12              | Prop           |                           |
| COUNTERWEIGHT SLUG | B-3386-14H         | BOLT,3/8-24,HEX HEAD           | 2               | Blade          |                           |
| COUNTERWEIGHT SLUG | B-3663-3           | PCP:SLUG, COUNTERWEIGHT        | 1               | Blade          |                           |
| COUNTERWEIGHT SLUG | B-3834-0632        | WASHER                         | 2               | Blade          |                           |
| DE-ICER            | 4H3048-10          | DE-ICE BOOT                    | 1               | Blade          | Supersedes 7931-4E3048-10 |
| DE-ICE KIT PR      | 7931-67-510-3      | DE-ICE KIT (ONE PROP)          | 1               | Prop           |                           |
| MTG BOLT/STUD      | A-1328-1           | BOLT,MOUNTING,1/2-20,12 POINT  | 6               | Prop           |                           |
| OVERHAUL KIT       | HC-B3TF-7A-OH      | O/H KIT                        | 1               | Prop           | For aftermarket use only  |

# HARTZELL

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BEECH

IDS No.: 1764 Rev.: 1 IC Date: 07/16/2015

**Model:** 35-C33A, (A)36, (E,F)33(A,C), (S,V)35, V35(A,B)

**Modifier:** ATLANTIC AERO

**Trade Name:** BONANZA

**Engine Model:** IO-550-R

**Aircraft T.C./STC:** SA10145SC

**Power:** 310 HP @ 2700 RPM

**Propeller Model:** PHC-J3YF-1RF

**Placard/Restr:**

**Propeller T.C.:** P36EA

**Notes:**

**Blade Model(s):** F8068

**Prop Diameter:** 82"

**Prop Setup:**

**Ref. Radius:** 30

**Startlock Angle:** NA

**Reverse Angle:** NA

**Feather/High Angle:** 32.5 +/- 1.0

**Low Pitch Angle:** 13.2 +/-0.1

**Cwt Angle:**

**Stud Protrusion:** 1.450 +/-0.030

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>           | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>               |
|------------------|--------------------|------------------------------|-----------------|----------------|-------------------------------|
| PROPELLER        | J3F00040           | PHC-J3YF-1RF/F8068/SM7       | 1               | A/C            |                               |
| PROPELLER        | J3F10693           | PHC-J3YF-1RF/F8068/SM44      | 1               | A/C            |                               |
| BLADE            | F8068              | PCP:BLADE UNIT, ALUM [1,1,5] | 3               | Prop           |                               |
| SPINNER          | A-2295-1P          | SPINNER ASSEMBLY             | 1               | Prop           |                               |
| SPINNER          | C-4582             | SPINNER ASSEMBLY             | 1               | Prop           |                               |
| SPINNER          | C-4582-P           | SPINNER ASSEMBLY             | 1               | Prop           |                               |
| SPIN MTG KIT     | A-2476-44          | SPINNER - MTG KIT            | 1               | Prop           | Opt w/C-4582(P) only; for adj |
| SPIN MTG KIT     | A-2476-7           | SPINNER - MTG KIT            | 1               | Prop           |                               |
| MTG BOLT/STUD    | A-2429-4           | STUD, MOUNTING, 1/2-20       | 6               | Prop           |                               |
| OVERHAUL KIT     | PHC-J3YF-1RF-OH    | O/H KIT                      | 1               | Prop           | For aftermarket use only      |

# HARTZELL

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BEECH

IDS No.: 1848 Rev.: 1 IC Date: 08/14/2015

**Model:** B36TC  
**Trade Name:** TURBINE AIR  
**Aircraft T.C./STC:** STC SA01156SE  
**Propeller Model:** HC-E4N-3N  
**Propeller T.C.:** P10NE  
**Blade Model(s):** D8292  
 D8292B  
**Prop Diameter:** 82.5"

**Modifier:** WEST PACIFIC AIR LLC  
**Engine Model:** PT6A-21  
**Power:** 500 HP @ 2200 RPM  
**Placard/Restr:**  
**Notes:** Rocket Engineering conversion

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** -10.0+-0.5  
**Low Pitch Angle:** 19.7+-0.1  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 83.2+-0.5  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>             | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>           |
|------------------|--------------------|--------------------------------|-----------------|----------------|---------------------------|
| PROPELLER        | E4N00502S          | HC-E4N-3N/D8292/D-630-1P       | 1               | A/C            |                           |
| PROPELLER        | E4N00520S          | HC-E4N-3N/D8292B/D-630-1P      | 1               | A/C            |                           |
| PROPELLER        | E4N00520SKD        | HC-E4N-3N/D8292B/D-630-1P      | 1               | A/C            |                           |
| BLADE            | D8292              | PCP:BLADE UNIT, ALUMINUM       | 4               | Prop           |                           |
| BLADE            | D8292B             | PCP:BLADE UNIT, ALUM [1,1,1]   | 4               | Prop           |                           |
| SPINNER          | D-630-1            | SPINNER ASSEMBLY               | 1               | Prop           |                           |
| SPINNER          | D-630-1P           | SPINNER ASSEMBLY               | 1               | Prop           |                           |
| SPIN MTG KIT     | A-2070-7           | SCREW, 1/4-28, BUTTON HEAD     | 8               | Prop           |                           |
| COUNTERWEIGHT    | C-472-3            | PCP:COUNTERWEIGHT              | 1               | Blade          |                           |
| DE-ICER          | 4H1601-10          | DE-ICE BOOT                    | 1               | Blade          | Supersedes 7931-4E1601-10 |
| DE-ICE KIT PR    | 7931-67-932-1      | DE-ICE KIT (ONE PROP)          | 1               | Prop           |                           |
| MTG BOLT/STUD    | B-3339-1           | BOLT,MOUNTING,9/16-18,12 POINT | 8               | Prop           |                           |
| MISC ACCES       | A-3044             | BLOCK, BETA FEEDBACK- ASSEMBLY | 1               | Prop           |                           |
| OVERHAUL KIT     | HC-E4N-3N-OH       | O/H KIT                        | 1               | Prop           | For aftermarket use only  |

# HARTZELL

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BEECH

**Model:** B50  
**Trade Name:** TWIN BONANZA  
**Aircraft T.C./STC:** 5A4  
**Propeller Model:** HC-83X20-2C  
**Propeller T.C.:** P6EA  
**Blade Model(s):** 9333C-3  
**Prop Diameter:** 90.6" NO CUT OFF

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 16.0 +-0.2  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 2095      **Rev.:** -      **DM Date:** 11/20/2003

**Modifier:**

**Engine Model:** GO-435-C2B

**Power:** 260 HP @ 2182 RPM

**Placard/Restr:**

**Notes:** Also RW-150, ZRW, Z governor

**Startlock Angle:** NA

**Feather/High Angle:** 85.0 +-0.5

**Cwt Angle:** Positive

**Non-HPI Governor:** WOODWARD

### Hartzell Approved Items:

| <u>Item Type</u>             | <u>Item Number</u> | <u>Description</u>         | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------------------|--------------------|----------------------------|-----------------|----------------|-----------------|
| BLADE                        | 9333C-3            | BLADE                      | 3               | Prop           |                 |
| SPINNER                      | 835-10S            | SPINNER ASSEMBLY           | 1               | Prop           |                 |
| COUNTERWEIGHT SLUG A-890     |                    | PCP:SLUG, COUNTERWEIGHT    | 1               | Blade          |                 |
| COUNTERWEIGHT SLUG B-3384-7H |                    | BOLT, 1/4-28, HEX HEAD     | 2               | Blade          |                 |
| MTG BOLT/STUD                | A-63B              | PCP: NUT, SHAFT, 20 SPLINE | 1               | Prop           |                 |
| MTG BOLT/STUD                | A-63-B             | NUT,SHAFT,20 SPLINE        | 1               | Prop           |                 |

BEECH

**Model:** B50  
**Trade Name:** TWIN BONANZA  
**Aircraft T.C./STC:** 5A4  
**Propeller Model:** HC-A3X20-2  
**Propeller T.C.:** P913  
**Blade Model(s):** V9333N-3  
**Prop Diameter:**

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 16.0 +-0.2  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 2361      **Rev.:** -      **DM Date:** 12/18/2003

**Modifier:**

**Engine Model:** GO-435-C2B

**Power:** HP @ RPM

**Placard/Restr:**

**Notes:**

**Startlock Angle:** NA

**Feather/High Angle:** 85.0 +-0.5

**Cwt Angle:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u> | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|--------------------|-----------------|----------------|-----------------|
| BLADE            | V9333N-3           | BLADE              | 3               | Prop           |                 |

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**BEECH**

**Model:** B50  
**Trade Name:** TWIN BONANZA  
**Aircraft T.C./STC:** 5A4  
**Propeller Model:** HC-A3V20-2  
**Propeller T.C.:** P6EA  
**Blade Model(s):** V9333N-3  
**Prop Diameter:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 16.0 +-0.2  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u> | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|--------------------|-----------------|----------------|-----------------|
| BLADE            | V9333N-3           | BLADE              | 3               | Prop           |                 |

**IDS No.:** 2362      **Rev.:** -      **DM Date:** 12/18/2003

**Modifier:**  
**Engine Model:** GO-435-C2B  
**Power:** HP @ RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 85.0 +-0.5  
**Cwt Angle:**

**Non-HPI Governor:**

**BEECH**

**Model:** B50  
**Trade Name:** TWIN BONANZA  
**Aircraft T.C./STC:** 5A4  
**Propeller Model:** HC-A3MV20-2  
**Propeller T.C.:** P6EA  
**Blade Model(s):** MV9333N-3  
**Prop Diameter:** 90.6" NO CUT OFF

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 16.0 +-0.2  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| <u>Item Type</u>             | <u>Item Number</u> | <u>Description</u>         | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------------------|--------------------|----------------------------|-----------------|----------------|--------------------------|
| PROPELLER                    | A3210066           | HC-A3MV20-2/MV9333N-3      | 2               | A/C            |                          |
| BLADE                        | MV9333N-3          | PCP:BLADE UNIT, ALUMINUM   | 3               | Prop           |                          |
| SPINNER                      | 835-10S            | SPINNER ASSEMBLY           | 1               | Prop           |                          |
| COUNTERWEIGHT SLUG A-890     |                    | PCP:SLUG, COUNTERWEIGHT    | 1               | Blade          |                          |
| COUNTERWEIGHT SLUG B-3384-7H |                    | BOLT, 1/4-28, HEX HEAD     | 2               | Blade          |                          |
| MTG BOLT/STUD                | A-63B              | PCP: NUT, SHAFT, 20 SPLINE | 1               | Prop           |                          |
| MTG BOLT/STUD                | A-63-B             | NUT,SHAFT,20 SPLINE        | 1               | Prop           |                          |
| OVERHAUL KIT                 | HC-A3MV20-2-OH     | O/H KIT                    | 1               | Prop           | For aftermarket use only |

**IDS No.:** 210      **Rev.:** 2      **IC Date:** 07/07/2015

**Modifier:**  
**Engine Model:** GO-435-C2B  
**Power:** 260 HP @ 2182 RPM  
**Placard/Restr:**  
**Notes:** Also RW-150, ZRW, Z Governor

**Startlock Angle:** NA  
**Feather/High Angle:** 85.0 +-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:** WOODWARD

# HARTZELL

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**BEECH**

**Model:** D50, D50A, D50B, D50C, D50E  
**Trade Name:** TWIN BONANZA  
**Aircraft T.C./STC:** 5A4  
**Propeller Model:** HC-A3XF-2A, HC-83XF-2A, HC-A3XF-2, HC-83XF-2  
**Propeller T.C.:** P6EA  
**Blade Model(s):** 9333C-3  
**Prop Diameter:** 90.6" TO 89"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 16.0 +/-0.2  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 2096      **Rev.:** -      **DM Date:** 11/20/2003

**Modifier:**

**Engine Model:** GO-480-C2(C,D)6,-G2D6,-G2F6

**Power:** 295 HP @ 2182 RPM

**Placard/Restr:**

**Notes:**

**Startlock Angle:** NA

**Feather/High Angle:** 85.5 +/-0.5

**Cwt Angle:** Positive

**Non-HPI Governor:** WOODWARD

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>            | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|-------------------------------|-----------------|----------------|-----------------|
| BLADE            | 9333C-3            | BLADE                         | 3               | Prop           |                 |
| SPINNER          | 836-18P            | IDS Item                      | 1               | Prop           |                 |
| MTG BOLT/STUD    | A-1328-1           | BOLT,MOUNTING,1/2-20,12 POINT | 6               | Prop           |                 |

**BEECH**

**Model:** D50, D50A, D50B, D50C, D50E  
**Trade Name:** TWIN BONANZA  
**Aircraft T.C./STC:** 5A4  
**Propeller Model:** HC-A3VF-2A, HC-83VF-2A, HC-A3VF-2, HC-83VF-2  
**Propeller T.C.:** P6EA  
**Blade Model(s):** V9333C-3  
V9333N-3  
**Prop Diameter:** 90.6" TO 89"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 16.0 +/-0.2  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 2097      **Rev.:** -      **DM Date:** 11/20/2003

**Modifier:**

**Engine Model:** GO-480-C2(C,D)6,-G2D6,-G2F6

**Power:** 295 HP @ 2182 RPM

**Placard/Restr:**

**Notes:**

**Startlock Angle:** NA

**Feather/High Angle:** 85.5 +/-0.5

**Cwt Angle:** Positive

**Non-HPI Governor:** WOODWARD

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>            | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|-------------------------------|-----------------|----------------|-----------------|
| BLADE            | V9333C-3           | BLADE                         | 3               | Prop           |                 |
| BLADE            | V9333N-3           | BLADE                         | 3               | Prop           |                 |
| SPINNER          | 836-18P            | IDS Item                      | 1               | Prop           |                 |
| MTG BOLT/STUD    | A-1328-1           | BOLT,MOUNTING,1/2-20,12 POINT | 6               | Prop           |                 |

# HARTZELL

## APPLICATION GUIDE

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BEECH

**Model:** D50, D50A, D50B, D50C, D50E

**Trade Name:** TWIN BONANZA

**Aircraft T.C./STC:** 5A4

**Propeller Model:** HC-A3MVF-2A

**Propeller T.C.:** P6EA

**Blade Model(s):** MV9333N-3

**Prop Diameter:** 90.6" TO 89"

### Prop Setup:

**Ref. Radius:** 30

**Reverse Angle:** NA

**Low Pitch Angle:** 16.0 +/-0.2

**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 211

**Rev.:** 2

**IC Date:** 07/07/2015

**Modifier:**

**Engine Model:** GO-480-C2(C,D)6,-G2D6,-G2F6

**Power:** 295 HP @ 2182 RPM

**Placard/Restr:**

**Notes:**

**Startlock Angle:** NA

**Feather/High Angle:** 85.5 +/-0.5

**Cwt Angle:** Positive

**Non-HPI Governor:** WOODWARD

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>            | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|-------------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | A3F10069           | HC-A3MVF-2A/MV9333N-3         | 2               | A/C            |                          |
| BLADE            | MV9333N-3          | PCP:BLADE UNIT, ALUMINUM      | 3               | Prop           |                          |
| SPINNER          | 836-18P            | IDS Item                      | 1               | Prop           |                          |
| MTG BOLT/STUD    | A-1328-1           | BOLT,MOUNTING,1/2-20,12 POINT | 6               | Prop           |                          |
| OVERHAUL KIT     | HC-A3MVF-2A-OH     | O/H KIT                       | 1               | Prop           | For aftermarket use only |

# HARTZELL

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BEECH

IDS No.: 212      Rev.: 1      D      Date: 01/07/2011

**Model:** E50, F50, G50, H50  
**Trade Name:** TWIN BONANZA  
**Aircraft T.C./STC:** 5A4  
**Propeller Model:** HC-93Z20-2C1  
**Propeller T.C.:** P-891  
**Blade Model(s):** 10151-8  
                           10151-8R  
                           10151N-8  
                           10151N-8R  
                           L10151N-8

**Modifier:**  
**Engine Model:** GSO-480-A1A6,-B1B6; IGSO-480-A1A6  
**Power:** 340 HP @ 2182 RPM  
**Placard/Restr:**

**Notes:** See IDS No. 1761 for alternate propeller model

**Prop Diameter:** 93" TO 90"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 16.0 +/-0.2  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 87.0 +/-0.5  
**Cwt Angle:** Positive

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:** WOODWARD

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>         | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|----------------------------|-----------------|----------------|-----------------|
| BLADE            | 10151-8            | BLADE UNIT, ALUMINUM       | 3               | Prop           |                 |
| BLADE            | 10151-8R           | BLADE UNIT, ALUMINUM       | 3               | Prop           |                 |
| BLADE            | 10151N-8           | PCP:BLADE UNIT, ALUMINUM   | 3               | Prop           |                 |
| BLADE            | 10151N-8R          | PCP:BLADE UNIT, ALUMINUM   | 3               | Prop           |                 |
| BLADE            | L10151N-8          | PCP:BLADE UNIT, ALUMINUM   | 3               | Prop           |                 |
| SPINNER          | 836-20SPR          | SPINNER ASSEMBLY           | 1               | Prop           |                 |
| SPINNER          | 836-21SPR          | SPINNER ASSEMBLY           | 1               | Prop           |                 |
| MTG BOLT/STUD    | A-63B              | PCP: NUT, SHAFT, 20 SPLINE | 1               | Prop           |                 |
| MTG BOLT/STUD    | A-63-B             | NUT,SHAFT,20 SPLINE        | 1               | Prop           |                 |



# HARTZELL

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BEECH

IDS No.: 213      Rev.: 1      D      Date: 01/07/2011

**Model:** J50  
**Trade Name:** TWIN BONANZA  
**Aircraft T.C./STC:** 5A4  
**Propeller Model:** HC-93Z20-2C1, -2A  
**Propeller T.C.:** P-891  
**Blade Model(s):** 10151-8  
10151-8R  
10151N-8  
10151N-8R  
L10151N-8

**Modifier:**  
**Engine Model:** IGSO-480-A1B6  
**Power:** 340 HP @ 2182 RPM  
**Placard/Restr:**  
**Notes:**

**Prop Diameter:** 93" TO 90"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 16.0 +/-0.2  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 87.0 +/-0.5  
**Cwt Angle:** Positive

### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:** WOODWARD

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>         | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|----------------------------|-----------------|----------------|-----------------|
| BLADE            | 10151-8            | BLADE UNIT, ALUMINUM       | 3               | Prop           |                 |
| BLADE            | 10151-8R           | BLADE UNIT, ALUMINUM       | 3               | Prop           |                 |
| BLADE            | 10151N-8           | PCP:BLADE UNIT, ALUMINUM   | 3               | Prop           |                 |
| BLADE            | 10151N-8R          | PCP:BLADE UNIT, ALUMINUM   | 3               | Prop           |                 |
| BLADE            | L10151N-8          | PCP:BLADE UNIT, ALUMINUM   | 3               | Prop           |                 |
| SPINNER          | 836-20SPR          | SPINNER ASSEMBLY           | 1               | Prop           |                 |
| SPINNER          | 836-21SPR          | SPINNER ASSEMBLY           | 1               | Prop           |                 |
| MTG BOLT/STUD    | A-63B              | PCP: NUT, SHAFT, 20 SPLINE | 1               | Prop           |                 |
| MTG BOLT/STUD    | A-63-B             | NUT,SHAFT,20 SPLINE        | 1               | Prop           |                 |

# HARTZELL

## APPLICATION GUIDE

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BEECH

IDS No.: 1761      Rev.: 1      D      Date: 01/10/2011

**Model:** E50, F50, G50, H50  
**Trade Name:** TWIN BONANZA  
**Aircraft T.C./STC:** 5A4  
**Propeller Model:** HC-B3Z20-2A  
**Propeller T.C.:** P-907  
**Blade Model(s):** 10151-8  
                           10151-8R  
                           10151N-8  
                           10151N-8R  
                           L10151N-8

**Modifier:**  
**Engine Model:** GSO-480-A1A6,-B1B6; IGSO-480-A1A6  
**Power:** 340 HP @ 2182 RPM  
**Placard/Restr:**

**Notes:** See IDS NO. 212 for alternate propeller model.

**Prop Diameter:** 93" TO 90"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 16.0 +/-0.2  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 87.0 +/-0.5  
**Cwt Angle:** Positive

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:** WOODWARD

**Hartzell Approved Items:**

| <u>Item Type</u>            | <u>Item Number</u> | <u>Description</u>           | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|-----------------------------|--------------------|------------------------------|-----------------|----------------|-----------------|
| BLADE                       | 10151-8            | BLADE UNIT, ALUMINUM         | 3               | Prop           |                 |
| BLADE                       | 10151-8R           | BLADE UNIT, ALUMINUM         | 3               | Prop           |                 |
| BLADE                       | 10151N-8           | PCP:BLADE UNIT, ALUMINUM     | 3               | Prop           |                 |
| BLADE                       | 10151N-8R          | PCP:BLADE UNIT, ALUMINUM     | 3               | Prop           |                 |
| BLADE                       | L10151N-8          | PCP:BLADE UNIT, ALUMINUM     | 3               | Prop           |                 |
| SPINNER                     | 836-20SPR          | SPINNER ASSEMBLY             | 1               | Prop           |                 |
| SPINNER                     | 836-21SPR          | SPINNER ASSEMBLY             | 1               | Prop           |                 |
| COUNTERWEIGHT SLUG A-619-2  |                    | SLUG, COUNTERWEIGHT          | 2               | Blade          |                 |
| COUNTERWEIGHT SLUG B-3840-8 |                    | SCREW, 10-32, FILLISTER HEAD | 2               | Blade          |                 |
| MTG BOLT/STUD               | A-63B              | PCP: NUT, SHAFT, 20 SPLINE   | 1               | Prop           |                 |
| MTG BOLT/STUD               | A-63-B             | NUT,SHAFT,20 SPLINE          | 1               | Prop           |                 |

# HARTZELL

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**BEECH**

**Model:** 50 SERIES  
**Trade Name:** TWIN BONANZA  
**Aircraft T.C./STC:** STC-SA2-1  
**Propeller Model:** HC-83X20-2, HC-A3X20-2  
**Propeller T.C.:** P6EA  
**Blade Model(s):**  
**Prop Diameter:** 90.6"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 16.0 +-0.1  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type                    | Item Number | Description                | Quantity | Qty Per | Comments |
|------------------------------|-------------|----------------------------|----------|---------|----------|
| SPINNER                      | 835-10S     | SPINNER ASSEMBLY           | 1        | Prop    |          |
| COUNTERWEIGHT SLUG A-890     |             | PCP:SLUG, COUNTERWEIGHT    | 1        | Blade   |          |
| COUNTERWEIGHT SLUG B-3384-7H |             | BOLT, 1/4-28, HEX HEAD     | 2        | Blade   |          |
| MTG BOLT/STUD                | A-63B       | PCP: NUT, SHAFT, 20 SPLINE | 1        | Prop    |          |
| MTG BOLT/STUD                | A-63-B      | NUT,SHAFT,20 SPLINE        | 1        | Prop    |          |

**IDS No.:** 2098 **Rev.:** - **DM Date:** 11/20/2003

**Modifier:** HOMER J. PENWELL  
**Engine Model:** GO-435-C2B  
**Power:** 260 HP @ 2182 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:**  
**Feather/High Angle:** 85.0 +-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:**

**BEECH**

**Model:** 50 SERIES  
**Trade Name:** TWIN BONANZA  
**Aircraft T.C./STC:** STC-SA2-1  
**Propeller Model:** HC-83V20-2, HC-A3V20-2  
**Propeller T.C.:** P6EA  
**Blade Model(s):** V9333N-3  
**Prop Diameter:** 90.6"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 16.0 +-0.1  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type                    | Item Number | Description                | Quantity | Qty Per | Comments |
|------------------------------|-------------|----------------------------|----------|---------|----------|
| BLADE                        | V9333N-3    | BLADE                      | 3        | Prop    |          |
| SPINNER                      | 835-10S     | SPINNER ASSEMBLY           | 1        | Prop    |          |
| COUNTERWEIGHT SLUG A-890     |             | PCP:SLUG, COUNTERWEIGHT    | 1        | Blade   |          |
| COUNTERWEIGHT SLUG B-3384-7H |             | BOLT, 1/4-28, HEX HEAD     | 2        | Blade   |          |
| MTG BOLT/STUD                | A-63B       | PCP: NUT, SHAFT, 20 SPLINE | 1        | Prop    |          |
| MTG BOLT/STUD                | A-63-B      | NUT,SHAFT,20 SPLINE        | 1        | Prop    |          |

**IDS No.:** 2099 **Rev.:** - **DM Date:** 11/20/2003

**Modifier:** HOMER J. PENWELL  
**Engine Model:** GO-435-C2B  
**Power:** 260 HP @ 2182 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:**  
**Feather/High Angle:** 85.0 +-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:**

# HARTZELL

## APPLICATION GUIDE

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**BEECH**

**Model:** 50 SERIES  
**Trade Name:** TWIN BONANZA  
**Aircraft T.C./STC:** STC-SA2-1  
**Propeller Model:** HC-A3MV20-2  
**Propeller T.C.:** P6EA  
**Blade Model(s):** MV9333N-3  
**Prop Diameter:** 90.6"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 16.0 +-0.1  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type                    | Item Number | Description                | Quantity | Qty Per | Comments |
|------------------------------|-------------|----------------------------|----------|---------|----------|
| BLADE                        | MV9333N-3   | PCP:BLADE UNIT, ALUMINUM   | 3        | Prop    |          |
| SPINNER                      | 835-10S     | SPINNER ASSEMBLY           | 1        | Prop    |          |
| COUNTERWEIGHT SLUG A-890     |             | PCP:SLUG, COUNTERWEIGHT    | 1        | Blade   |          |
| COUNTERWEIGHT SLUG B-3384-7H |             | BOLT, 1/4-28, HEX HEAD     | 2        | Blade   |          |
| MTG BOLT/STUD                | A-63B       | PCP: NUT, SHAFT, 20 SPLINE | 1        | Prop    |          |
| MTG BOLT/STUD                | A-63-B      | NUT,SHAFT,20 SPLINE        | 1        | Prop    |          |

**IDS No.:** 214      **Rev.:** 1      **D**      **Date:** 01/07/2011

**Modifier:** HOMER J. PENWELL  
**Engine Model:** GO-435-C2B  
**Power:** 260 HP @ 2182 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:**  
**Feather/High Angle:** 85.0 +-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:**

**BEECH**

**Model:** C50  
**Trade Name:** TWIN BONANZA  
**Aircraft T.C./STC:** STC-SA2-233  
**Propeller Model:** HC-83XF-2A, HC-83XF-2  
**Propeller T.C.:** P6EA  
**Blade Model(s):** 9333C-3  
**Prop Diameter:** 90.6"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 14.5 +-0.2  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type | Item Number | Description | Quantity | Qty Per | Comments |
|-----------|-------------|-------------|----------|---------|----------|
| BLADE     | 9333C-3     | BLADE       | 3        | Prop    |          |
| SPINNER   | 836-18P     | IDS Item    | 1        | Prop    |          |
| SPINNER   | 836-19P     | IDS Item    | 1        | Prop    |          |

**IDS No.:** 2100      **Rev.:** -      **DM**      **Date:** 11/20/2003

**Modifier:** JORDAN PROPELLER  
**Engine Model:** GO-480-F4B6, -F4A6  
**Power:** 275 HP @ 2182 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 84.0 +-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:** WOODWARD

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**BEECH**

**Model:** C50  
**Trade Name:** TWIN BONANZA  
**Aircraft T.C./STC:** STC-SA2-233  
**Propeller Model:** HC-A3MVF-2A  
**Propeller T.C.:** P6EA  
**Blade Model(s):** MV9333N-3  
**Prop Diameter:** 90.6"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 14.5 +-0.2  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type | Item Number | Description              | Quantity | Qty Per | Comments |
|-----------|-------------|--------------------------|----------|---------|----------|
| BLADE     | MV9333N-3   | PCP:BLADE UNIT, ALUMINUM | 3        | Prop    |          |
| SPINNER   | 836-18P     | IDS Item                 | 1        | Prop    |          |
| SPINNER   | 836-19P     | IDS Item                 | 1        | Prop    |          |

**IDS No.:** 215      **Rev.:** 1      **D**      **Date:** 01/07/2011

**Modifier:** JORDAN PROPELLER  
**Engine Model:** GO-480-F4B6, -F4A6  
**Power:** 275 HP @ 2182 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 84.0 +-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:** WOODWARD

**BEECH**

**Model:** C50  
**Trade Name:** TWIN BONANZA  
**Aircraft T.C./STC:** STC-SA360/242SW  
**Propeller Model:** HC-A3MVF-2  
**Propeller T.C.:** P6EA  
**Blade Model(s):** MV9333N-3  
**Prop Diameter:** 90.6" TO 89.6"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 14.5 +-0.2  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number   | Description                   | Quantity | Qty Per | Comments                 |
|---------------|---------------|-------------------------------|----------|---------|--------------------------|
| PROPELLER     | A3F10061      | HC-A3MVF-2/MV9333N-3          | 2        | A/C     |                          |
| BLADE         | MV9333N-3     | PCP:BLADE UNIT, ALUMINUM      | 3        | Prop    |                          |
| SPINNER       | 836-25P       | SPINNER ASSEMBLY              | 1        | Prop    |                          |
| SPINNER       | 836-26P       | SPINNER ASSEMBLY              | 1        | Prop    | Alcohol                  |
| MTG BOLT/STUD | A-1328-1      | BOLT,MOUNTING,1/2-20,12 POINT | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-A3MVF-2-OH | O/H KIT                       | 1        | Prop    | For aftermarket use only |

**IDS No.:** 221      **Rev.:** 2      **IC**      **Date:** 07/07/2015

**Modifier:** EXALIBER AVIATION  
**Engine Model:** GO-480-G2D6, -G2F6  
**Power:** 295 HP @ 2182 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 84.0 +-1.0  
**Cwt Angle:** Positive

**Non-HPI Governor:**

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BEECH

**Model:** 50 SERIES  
**Trade Name:** TWIN BONANZA  
**Aircraft T.C./STC:** STC-SA2-602  
**Propeller Model:** HC-83X20-2, HC-A3X20-2  
**Propeller T.C.:** P6EA  
**Blade Model(s):** 9333C-3  
**Prop Diameter:** 90.6"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:**  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 2101      **Rev.:** -      **DM Date:** 11/20/2003

**Modifier:** AIRCRAFTSMEN INC  
**Engine Model:** GO-480-F2A6  
**Power:** 295 HP @ 2182 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:**  
**Feather/High Angle:**  
**Cwt Angle:** Positive

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u>             | <u>Item Number</u> | <u>Description</u>         | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------------------|--------------------|----------------------------|-----------------|----------------|-----------------|
| BLADE                        | 9333C-3            | BLADE                      | 3               | Prop           |                 |
| COUNTERWEIGHT SLUG A-890     |                    | PCP:SLUG, COUNTERWEIGHT    | 1               | Blade          |                 |
| COUNTERWEIGHT SLUG B-3384-7H |                    | BOLT, 1/4-28, HEX HEAD     | 2               | Blade          |                 |
| MTG BOLT/STUD                | A-63B              | PCP: NUT, SHAFT, 20 SPLINE | 1               | Prop           |                 |
| MTG BOLT/STUD                | A-63-B             | NUT,SHAFT,20 SPLINE        | 1               | Prop           |                 |

BEECH

**Model:** 50 SERIES  
**Trade Name:** TWIN BONANZA  
**Aircraft T.C./STC:** STC-SA2-602  
**Propeller Model:** HC-83V20-2, HC-A3V20-2  
**Propeller T.C.:** P6EA  
**Blade Model(s):** V9333C-3  
V9333N-3

**Prop Diameter:** 90.6"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:**  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 2102      **Rev.:** -      **DM Date:** 11/20/2003

**Modifier:** AIRCRAFTSMEN INC  
**Engine Model:** GO-480-F2A6  
**Power:** 295 HP @ 2182 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:**  
**Feather/High Angle:**  
**Cwt Angle:** Positive

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u>             | <u>Item Number</u> | <u>Description</u>         | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------------------|--------------------|----------------------------|-----------------|----------------|-----------------|
| BLADE                        | V9333C-3           | BLADE                      | 3               | Prop           |                 |
| BLADE                        | V9333N-3           | BLADE                      | 3               | Prop           |                 |
| COUNTERWEIGHT SLUG A-890     |                    | PCP:SLUG, COUNTERWEIGHT    | 1               | Blade          |                 |
| COUNTERWEIGHT SLUG B-3384-7H |                    | BOLT, 1/4-28, HEX HEAD     | 2               | Blade          |                 |
| MTG BOLT/STUD                | A-63B              | PCP: NUT, SHAFT, 20 SPLINE | 1               | Prop           |                 |
| MTG BOLT/STUD                | A-63-B             | NUT,SHAFT,20 SPLINE        | 1               | Prop           |                 |

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**BEECH**

**Model:** 50 SERIES  
**Trade Name:** TWIN BONANZA  
**Aircraft T.C./STC:** STC-SA2-602  
**Propeller Model:** HC-A3MV20-2  
**Propeller T.C.:** P6EA  
**Blade Model(s):** MV9333N-3  
**Prop Diameter:** 90.6"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** UNKNOWN  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type                    | Item Number | Description                | Quantity | Qty Per | Comments |
|------------------------------|-------------|----------------------------|----------|---------|----------|
| BLADE                        | MV9333N-3   | PCP:BLADE UNIT, ALUMINUM   | 3        | Prop    |          |
| COUNTERWEIGHT SLUG A-890     |             | PCP:SLUG, COUNTERWEIGHT    | 1        | Blade   |          |
| COUNTERWEIGHT SLUG B-3384-7H |             | BOLT, 1/4-28, HEX HEAD     | 2        | Blade   |          |
| MTG BOLT/STUD                | A-63B       | PCP: NUT, SHAFT, 20 SPLINE | 1        | Prop    |          |
| MTG BOLT/STUD                | A-63-B      | NUT,SHAFT,20 SPLINE        | 1        | Prop    |          |

**IDS No.:** 216      **Rev.:** 1      **D**      **Date:** 01/07/2011

**Modifier:** AIRCRAFTSMEN INC  
**Engine Model:** GO-480-F2A6  
**Power:** 275 HP @ 2182 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:**  
**Feather/High Angle:** UNKNOWN  
**Cwt Angle:** Positive

**Non-HPI Governor:**

**BEECH**

**Model:** 50 SERIES  
**Trade Name:** TWIN BONANZA  
**Aircraft T.C./STC:** STC-SA2-602  
**Propeller Model:** HC-83XF-2A, HC-A3XF-2A  
**Propeller T.C.:** P6EA  
**Blade Model(s):** 9333C-3  
**Prop Diameter:** 90.6"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:**  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type | Item Number | Description | Quantity | Qty Per | Comments |
|-----------|-------------|-------------|----------|---------|----------|
| BLADE     | 9333C-3     | BLADE       | 3        | Prop    |          |

**IDS No.:** 2103      **Rev.:** -      **DM**      **Date:** 11/20/2003

**Modifier:** AIRCRAFTSMEN INC  
**Engine Model:** GO-480-F4B6  
**Power:** 295 HP @ 2182 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:**  
**Feather/High Angle:**  
**Cwt Angle:** Positive

**Non-HPI Governor:**

# HARTZELL

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**BEECH**

**Model:** 50 SERIES  
**Trade Name:** TWIN BONANZA  
**Aircraft T.C./STC:** STC-SA2-602  
**Propeller Model:** HC-83VF-2A, HC-A3VF-2A  
**Propeller T.C.:** P6EA  
**Blade Model(s):** V9333C-3  
V9333N-3  
**Prop Diameter:** 90.6"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:**  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type | Item Number | Description | Quantity | Qty Per | Comments |
|-----------|-------------|-------------|----------|---------|----------|
| BLADE     | V9333C-3    | BLADE       | 3        | Prop    |          |
| BLADE     | V9333N-3    | BLADE       | 3        | Prop    |          |

**IDS No.:** 2104      **Rev.:** -      **DM Date:** 11/20/2003

**Modifier:** AIRCRAFTSMEN INC  
**Engine Model:** GO-480-F4B6  
**Power:** 295 HP @ 2182 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:**  
**Feather/High Angle:**  
**Cwt Angle:** Positive

**Non-HPI Governor:**

**BEECH**

**Model:** 50 SERIES  
**Trade Name:** TWIN BONANZA  
**Aircraft T.C./STC:** STC-SA2-602  
**Propeller Model:** HC-A3MVF-2A  
**Propeller T.C.:** P6EA  
**Blade Model(s):** MV9333N-3  
**Prop Diameter:** 90.6"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** Unknown  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number | Description                   | Quantity | Qty Per | Comments |
|---------------|-------------|-------------------------------|----------|---------|----------|
| BLADE         | MV9333N-3   | PCP:BLADE UNIT, ALUMINUM      | 3        | Prop    |          |
| MTG BOLT/STUD | A-1328-1    | BOLT,MOUNTING,1/2-20,12 POINT | 6        | Prop    |          |

**IDS No.:** 217      **Rev.:** 1      **D Date:** 01/07/2011

**Modifier:** AIRCRAFTSMEN INC  
**Engine Model:** GO-480-F4B6  
**Power:** 275 HP @ 2182 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:**  
**Feather/High Angle:** Unknown  
**Cwt Angle:** Positive

**Non-HPI Governor:**



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BEECH

**Model:** 50, B50, C50  
**Trade Name:** TWIN BONANZA  
**Aircraft T.C./STC:** STC-SA2-66  
**Propeller Model:** HC-A3X20-2  
**Propeller T.C.:** P913  
**Blade Model(s):**  
**Prop Diameter:**

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:**  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

### Hartzell Approved Items:

**IDS No.:** 2359      **Rev.:** -      **DM Date:** 12/01/2003

**Modifier:**  
**Engine Model:** GO-480-B, -B1B, -B1C, -B1D, -F2A  
**Power:** 270 HP @ 2182 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:**  
**Feather/High Angle:**  
**Cwt Angle:**

**Non-HPI Governor:**

BEECH

**Model:** 50, B50, C50  
**Trade Name:** TWIN BONANZA  
**Aircraft T.C./STC:** STC-SA2-66  
**Propeller Model:** HC-A3V20-2  
**Propeller T.C.:** P6EA  
**Blade Model(s):** V9333N-3  
**Prop Diameter:**

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:**  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

### Hartzell Approved Items:

**IDS No.:** 2360      **Rev.:** -      **DM Date:** 12/18/2003

**Modifier:**  
**Engine Model:** GO-480-B, B1B, B1C, B1D, F2A  
**Power:** 270 HP @ 2182 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:**  
**Feather/High Angle:**  
**Cwt Angle:**

**Non-HPI Governor:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u> | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|--------------------|-----------------|----------------|-----------------|
| BLADE            | V9333N-3           | BLADE              | 3               | Prop           |                 |

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BEECH

**Model:** 50, B50, C50  
**Trade Name:** TWIN BONANZA  
**Aircraft T.C./STC:** STC-SA2-66  
**Propeller Model:** HC-A3MV20-2  
**Propeller T.C.:** P6EA  
**Blade Model(s):** MV9333N-3  
**Prop Diameter:** 90.6"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** UNKNOWN  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

### Hartzell Approved Items:

| <u>Item Type</u>             | <u>Item Number</u> | <u>Description</u>         | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------------------|--------------------|----------------------------|-----------------|----------------|-----------------|
| BLADE                        | MV9333N-3          | PCP:BLADE UNIT, ALUMINUM   | 3               | Prop           |                 |
| COUNTERWEIGHT SLUG A-890     |                    | PCP:SLUG, COUNTERWEIGHT    | 1               | Blade          |                 |
| COUNTERWEIGHT SLUG B-3384-7H |                    | BOLT, 1/4-28, HEX HEAD     | 2               | Blade          |                 |
| MTG BOLT/STUD                | A-63B              | PCP: NUT, SHAFT, 20 SPLINE | 1               | Prop           |                 |
| MTG BOLT/STUD                | A-63-B             | NUT,SHAFT,20 SPLINE        | 1               | Prop           |                 |

**IDS No.:** 218      **Rev.:** 1      **D**      **Date:** 01/07/2011

**Modifier:** HOMER J. PENWELL  
**Engine Model:** GO-480-B, -B1B, -B1C, -B1D, -F2A  
**Power:** 270 HP @ 2182 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:**  
**Feather/High Angle:** UNKNOWN  
**Cwt Angle:** Positive

**Non-HPI Governor:**

BEECH

**Model:** 50 SERIES  
**Trade Name:** TWIN BONANZA  
**Aircraft T.C./STC:** STC-SA2-665  
**Propeller Model:** HC-83XF-2A, HC-A3XF-2A  
**Propeller T.C.:** P6EA  
**Blade Model(s):** 9333C-3  
**Prop Diameter:** 90.6"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:**  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u> | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|--------------------|-----------------|----------------|-----------------|
| BLADE            | 9333C-3            | BLADE              | 3               | Prop           |                 |

**IDS No.:** 2105      **Rev.:** -      **DM**      **Date:** 11/20/2003

**Modifier:** EL PASO NAT. GAS  
**Engine Model:** GO-480-C3C6, -C2D6  
**Power:** 295 HP @ 2182 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:**  
**Feather/High Angle:**  
**Cwt Angle:** Positive

**Non-HPI Governor:**

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BEECH

**Model:** 50 SERIES  
**Trade Name:** TWIN BONANZA  
**Aircraft T.C./STC:** STC-SA2-665  
**Propeller Model:** HC-83VF-2A, HC-A3VF-2A  
**Propeller T.C.:** P6EA  
**Blade Model(s):** V9333C-3  
V9333N-3  
**Prop Diameter:** 90.6"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:**  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u> | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|--------------------|-----------------|----------------|-----------------|
| BLADE            | V9333C-3           | BLADE              | 3               | Prop           |                 |
| BLADE            | V9333N-3           | BLADE              | 3               | Prop           |                 |

**IDS No.:** 2106      **Rev.:** -      **DM Date:** 11/20/2003

**Modifier:** EL PASO NAT. GAS  
**Engine Model:** GO-480-C3C6, -C2D6  
**Power:** 295 HP @ 2182 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:**  
**Feather/High Angle:**  
**Cwt Angle:** Positive

**Non-HPI Governor:**

BEECH

**Model:** 50 SERIES  
**Trade Name:** TWIN BONANZA  
**Aircraft T.C./STC:** STC-SA2-665  
**Propeller Model:** HC-A3MVF-2A  
**Propeller T.C.:** P6EA  
**Blade Model(s):** MV9333N-3  
**Prop Diameter:** 90.6"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** UNKNOWN  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>            | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|-------------------------------|-----------------|----------------|-----------------|
| BLADE            | MV9333N-3          | PCP:BLADE UNIT, ALUMINUM      | 3               | Prop           |                 |
| MTG BOLT/STUD    | A-1328-1           | BOLT,MOUNTING,1/2-20,12 POINT | 6               | Prop           |                 |

**IDS No.:** 219      **Rev.:** 1      **D Date:** 01/07/2011

**Modifier:** EL PASO NAT. GAS  
**Engine Model:** GO-480-C3C6, -C2D6  
**Power:** 295 HP @ 2182 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:**  
**Feather/High Angle:** UNKNOWN  
**Cwt Angle:** Positive

**Non-HPI Governor:**

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**BEECH**

**Model:** 50 SERIES  
**Trade Name:** TWIN BONANZA  
**Aircraft T.C./STC:** STC-SA2-87, 93  
**Propeller Model:** HC-A3X20-2  
**Propeller T.C.:** P913  
**Blade Model(s):** 9333C-3  
**Prop Diameter:**

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 16.0 +/-0.1  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 2357      **Rev.:** -      **DM Date:** 12/01/2003

**Modifier:**  
**Engine Model:** GO-480-C2C6, -C2D6  
**Power:** 295 HP @ 3400 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:**  
**Feather/High Angle:** 85.5 +/-0.5  
**Cwt Angle:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u> | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|--------------------|-----------------|----------------|-----------------|
| BLADE            | 9333C-3            | BLADE              | 3               | Prop           |                 |

**BEECH**

**Model:** 50 SERIES  
**Trade Name:** TWIN BONANZA  
**Aircraft T.C./STC:** STC-SA2-87, 93  
**Propeller Model:** HC-A3V20-2  
**Propeller T.C.:** P6EA  
**Blade Model(s):** V9333C-3  
V9333N-3

**Prop Diameter:**

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 16.0 +/-0.1  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 2358      **Rev.:** -      **DM Date:** 12/01/2003

**Modifier:**  
**Engine Model:** GO-480-C2C6, C2D6  
**Power:** 295 HP @ 3400 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:**  
**Feather/High Angle:** 85.5 +/-0.5  
**Cwt Angle:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u> | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|--------------------|-----------------|----------------|-----------------|
| BLADE            | V9333C-3           | BLADE              | 3               | Prop           |                 |
| BLADE            | V9333N-3           | BLADE              | 3               | Prop           |                 |

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BEECH

**Model:** 50 SERIES  
**Trade Name:** TWIN BONANZA  
**Aircraft T.C./STC:** STC-SA2-87,93  
**Propeller Model:** HC-A3MV20-2  
**Propeller T.C.:** P6EA  
**Blade Model(s):** MV9333N-3  
**Prop Diameter:** 90.6"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 16.0 +-0.1  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 220      **Rev.:** 1      **D**      **Date:** 01/07/2011

**Modifier:** TULSAIR DEST.  
**Engine Model:** GO-480-C2C6, -C2D6  
**Power:** 295 HP @ 2182 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:**  
**Feather/High Angle:** 85.5 +-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:** WOODWARD

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>         | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|----------------------------|-----------------|----------------|-----------------|
| BLADE            | MV9333N-3          | PCP:BLADE UNIT, ALUMINUM   | 3               | Prop           |                 |
| SPINNER          | 836-20S            | SPINNER ASSEMBLY           | 1               | Prop           |                 |
| SPINNER          | 836-22S            | SPINNER ASSEMBLY           | 1               | Prop           |                 |
| MTG BOLT/STUD    | A-63B              | PCP: NUT, SHAFT, 20 SPLINE | 1               | Prop           |                 |
| MTG BOLT/STUD    | A-63-B             | NUT,SHAFT,20 SPLINE        | 1               | Prop           |                 |

BEECH

**Model:** D50(A,B,C,E), E50, F50, G50, H50, J50  
**Trade Name:** EXCALIBUR 800 (BEECH TWIN BONANZA)  
**Aircraft T.C./STC:** SA587SW  
**Propeller Model:** HC-A3VK-2A  
**Propeller T.C.:** P6EA  
**Blade Model(s):** MV8433NB-4  
**Prop Diameter:** 80"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 14.0+-0.1  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 2799      **Rev.:** -      **DM**      **Date:** 09/24/2008

**Modifier:** Bemidji Aviation Services  
**Engine Model:** IO-720-A1A  
**Power:** 400 HP @ 2650 RPM  
**Placard/Restr:**  
**Notes:** STC originally issued to Swearingen Aircraft

**Startlock Angle:** NA  
**Feather/High Angle:** 82.1+-1.0  
**Cwt Angle:** Positive

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>   | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|----------------------|-----------------|----------------|-----------------|
| BLADE            | MV8433NB-4         | BLADE UNIT, ALUMINUM | 3               | Prop           |                 |

# HARTZELL

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BEECH

IDS No.: 229 Rev.: 1 BC Date: 07/14/2014

Model: 95-55, -55A, -B55, -B55A, -B55B

Trade Name: BARON

Aircraft T.C./STC: STC-SA795CE

Propeller Model: DHC-C2YF-2CH(U)(F)

Propeller T.C.: P-920

Blade Model(s): FC8465-6

Prop Diameter: 78" TO 76.5"

Modifier: HARTZELL PROPELLER

Engine Model: IO-470-L

Power: 260 HP @ 2625 RPM

Placard/Restr:

Notes:

### Prop Setup:

Ref. Radius: 30

Reverse Angle: NA

Low Pitch Angle: 16.0 +-0.1

Stud Protrusion 1.450 +-0.030

Startlock Angle: 21.5 +-1.5

Feather/High Angle: 80.0 +-1.0

Cwt Angle:

### Non-HPI Items:

Non-HPI Spinner:

Non-HPI Governor: WOODWARD

### Hartzell Approved Items:

| Item Type     | Item Number | Description              | Quantity | Qty Per | Comments        |
|---------------|-------------|--------------------------|----------|---------|-----------------|
| BLADE         | FC8465-6    | PCP:BLADE UNIT, ALUMINUM | 2        | Prop    |                 |
| SPINNER       | C-2285-1    | SPINNER ASSEMBLY         | 1        | Prop    |                 |
| SPINNER       | C-2285-6    | SPINNER ASSEMBLY         | 1        | Prop    |                 |
| SPINNER       | C-2285-6P   | SPINNER ASSEMBLY         | 1        | Prop    |                 |
| SPIN MTG KIT  | A-2476-8    | SPINNER - MTG KIT        | 1        | Prop    |                 |
| COUNTERWEIGHT | B-3202H-2   | PCP:COUNTERWEIGHT        | 1        | Blade   | Blade Component |
| MTG BOLT/STUD | A-2429-4    | STUD, MOUNTING, 1/2-20   | 6        | Prop    |                 |

# HARTZELL

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BEECH

IDS No.: 230      Rev.: 2      IC Date: 07/07/2015

**Model:** 95-55, -A55, -B55, -B55A, -B55B

**Trade Name:** BARON

**Aircraft T.C./STC:** STC-SA795CE

**Propeller Model:** BHC-C2YF-2CH(U)(F)

**Propeller T.C.:** P-920

**Blade Model(s):** FC8465-6

FC8465-6\*1

FC8465B-6

**Prop Diameter:** 78" TO 76.5"

**Prop Setup:**

**Ref. Radius:** 30

**Reverse Angle:** NA

**Low Pitch Angle:** 16.0 +-0.1

**Stud Protrusion** 1.450 +-0.030

**Modifier:** HARTZELL PROPELLER

**Engine Model:** IO-470-L

**Power:** 260 HP @ 2625 RPM

**Placard/Restr:**

**Notes:** Check for balance weight/travel tube interference during assembly on props with alcohol de-ice

**Startlock Angle:** 21.5 +-1.5

**Feather/High Angle:** 80.0 +-1.0

**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:** WOODWARD

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>             | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|--------------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | C2F00160           | BHC-C2YF-2CHUF/FC8465-6/SM8    | 2               | A/C            |                          |
| PROPELLER        | C2F00160STP        | C2F00160/SM8/C-2285-6P/TWIN    | 1               | A/C            |                          |
| PROPELLER        | C2F00170           | BHC-C2YF-2CHUF/FC8465B-6/SM8   | 2               | A/C            |                          |
| PROPELLER        | C2F00170STP        | C2F00170/C-2285-6P/DE-ICE/TWIN | 1               | A/C            |                          |
| BLADE            | FC8465-6           | PCP:BLADE UNIT, ALUMINUM       | 2               | Prop           |                          |
| BLADE            | FC8465-6*1         | IDS ITEM, BLADE, B-3202H-2 CWT | 2               | Prop           |                          |
| BLADE            | FC8465B-6          | PCP:BLADE UNIT, ALUMINUM       | 2               | Prop           |                          |
| SPINNER          | C-2285-1           | SPINNER ASSEMBLY               | 1               | Prop           |                          |
| SPINNER          | C-2285-6           | SPINNER ASSEMBLY               | 1               | Prop           |                          |
| SPINNER          | C-2285-6P          | SPINNER ASSEMBLY               | 1               | Prop           |                          |
| SPIN MTG KIT     | A-2476-8           | SPINNER - MTG KIT              | 1               | Prop           |                          |
| COUNTERWEIGHT    | B-3202H-2          | PCP:COUNTERWEIGHT              | 1               | Blade          | Blade Component          |
| DE-ICER          | C-2131-4           | BOOT, ANTI-ICING               | 1               | Blade          | Blade Component          |
| DE-ICE KIT PR    | A-2374-1           | ANTI-ICING - KIT               | 1               | Prop           |                          |
| MTG BOLT/STUD    | A-2429-4           | STUD, MOUNTING, 1/2-20         | 6               | Prop           |                          |
| OVERHAUL KIT     | BHC-C2YF-2CHUF     | O/H KIT                        | 1               | Prop           | For aftermarket use only |

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**BEECH**

**Model:** 95-55, -A55, -B55, -B55A, -B55B

**Trade Name:** BARON

**Aircraft T.C./STC:** STC-SA795CE

**Propeller Model:** PHC-C3YF-2UF

**Propeller T.C.:** P25EA

**Blade Model(s):** FC7663-2R

FC7663-2R\*2

FC7663B-2R\*3

FC7663B-2R\*4

**Prop Diameter:** 76.0" TO 74.5"

### Prop Setup:

**Ref. Radius:** 30

**Reverse Angle:** NA

**Low Pitch Angle:** 13.5 +-0.1

**Stud Protrusion** 1.450 +-0.030

**IDS No.:** 231

**Rev.:** 2

**IC Date:** 07/15/2015

**Modifier:** HARTZELL PROPELLER

**Engine Model:** IO-470-L

**Power:** 260 HP @ 2625 RPM

**Placard/Restr:**

**Notes:** Check for balance weight/travel tube interference during assembly on props with alcohol de-ice

**Startlock Angle:** 19.0 +-1.5

**Feather/High Angle:** 84.0 +-1.0

**Cwt Angle:**

### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:** WOODWARD

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>               | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|----------------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | C3F00171           | PHC-C3YF-2UF/FC7663-2R/SM9       | 2               | A/C            |                          |
| PROPELLER        | C3F00171KD         | PHC-C3YF-2UF/FC7663-2R/SM9       | 2               | A/C            |                          |
| PROPELLER        | C3F00171SKDTP      | C3F00171/SM9/C-3567-1P/TWIN      | 1               | A/C            |                          |
| PROPELLER        | C3F00171STP        | C3F00171/SM9/C-3567-1P/TWIN      | 1               | A/C            |                          |
| PROPELLER        | C3F00181           | PHC-C3YF-2UF/FC7663B-2R[*3]SM9   | 2               | A/C            |                          |
| PROPELLER        | C3F00181KD         | PHC-C3YF-2UF/FC7663B-2R[*3]SM9   | 2               | A/C            |                          |
| PROPELLER        | C3F00181SKDTP      | C3F00181/C-3567-1P/DE-ICE/TWIN   | 1               | A/C            |                          |
| PROPELLER        | C3F00181STP        | C3F00181/C-3567-1P/DE-ICE/TWIN   | 1               | A/C            |                          |
| BLADE            | FC7663-2R          | PCP:BLADE UNIT, B-3202H-5        | 3               | Prop           |                          |
| BLADE            | FC7663-2R*2        | IDS ITEM, [3,1,1], B-3202H-5     | 3               | Prop           |                          |
| BLADE            | FC7663B-2R*3       | PCP:BLADE UNIT, ALUM C-2131-3    | 3               | Prop           |                          |
| BLADE            | FC7663B-2R*4       | BLADE, BLACK, C-2131-3/B-3202H-5 | 3               | Prop           |                          |
| SPINNER          | C-3567-1           | SPINNER ASSEMBLY                 | 1               | Prop           |                          |
| SPINNER          | C-3567-1P          | SPINNER ASSEMBLY                 | 1               | Prop           |                          |
| SPIN MTG KIT     | A-2476-9           | SPINNER - MTG KIT                | 1               | Prop           |                          |
| COUNTERWEIGHT    | B-3202H-5          | PCP:COUNTERWEIGHT                | 1               | Blade          | Blade Component          |
| DE-ICER          | C-2131-3           | BOOT, ANTI-ICING                 | 1               | Blade          | Blade Component          |
| DE-ICE KIT PR    | A-2386-1           | ANTI - ICE(BEECH 55&58) - KIT    | 1               | Prop           |                          |
| MTG BOLT/STUD    | A-2429-4           | STUD, MOUNTING, 1/2-20           | 6               | Prop           | Use w/E-7167-2 Hub Only  |
| MTG BOLT/STUD    | A-2429-7           | STUD, MOUNTING, 1/2-20           | 6               | Prop           | Use w/E-7167-12 Hub Only |
| OVERHAUL KIT     | PHC-C3YF-2UF*1     | O/H KIT W/O SLIMSERTS            | 1               | Prop           | For aftermarket use only |
| OVERHAUL KIT     | PHC-C3YF-2UF-OH    | O/H KIT                          | 1               | Prop           | For aftermarket use only |



# HARTZELL

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**BEECH**

**Model:** 95-55, -A55, -B55  
**Trade Name:** BARON  
**Aircraft T.C./STC:** STC-SA126CE  
**Propeller Model:** HC-A3VF-2B, PHC-A3VF-2B  
**Propeller T.C.:** P6EA  
**Blade Model(s):** V7636  
V7636N  
**Prop Diameter:** 76.3" NO CUT OFF

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.25 +-0.25  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**IDS No.:** 2107 **Rev.:** - **DM Date:** 11/20/2003

**Modifier:** HARTZELL PROPELLER  
**Engine Model:** IO-470  
**Power:** 260 HP @ 2625 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:**  
**Feather/High Angle:** 85.0 +-1.0  
**Cwt Angle:** Positive

**Non-HPI Governor:** WOODWARD

**Hartzell Approved Items:**

| Item Type | Item Number | Description      | Quantity | Qty Per | Comments  |
|-----------|-------------|------------------|----------|---------|-----------|
| BLADE     | V7636       | IDS ITEM         | 3        | Prop    |           |
| BLADE     | V7636N      | BLADE            | 3        | Prop    |           |
| SPINNER   | 836-36      | SPINNER ASSEMBLY | 1        | Prop    | w/ De-ice |
| SPINNER   | 836-37      | SPINNER ASSEMBLY | 1        | Prop    |           |

**BEECH**

**Model:** 95-55, -A55, -B55  
**Trade Name:** BARON  
**Aircraft T.C./STC:** SA126CE  
**Propeller Model:** PHC-A3MVF-2B  
**Propeller T.C.:** P6EA  
**Blade Model(s):** MV7636N  
MV7636NB\*1  
**Prop Diameter:** 76.25"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.2 +-0.2  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**IDS No.:** 2039 **Rev.:** 1 **D Date:** 01/07/2011

**Modifier:** HARTZELL PROPELLER  
**Engine Model:** IO-470-L  
**Power:** 260 HP @ 2625 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** 18.8 +-1.5  
**Feather/High Angle:** 85.0 +-1.0  
**Cwt Angle:** Positive

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type                   | Item Number | Description                      | Quantity | Qty Per | Comments        |
|-----------------------------|-------------|----------------------------------|----------|---------|-----------------|
| BLADE                       | MV7636N     | PCP:BLADE UNIT, ALUM [1,1,1]     | 3        | Prop    |                 |
| BLADE                       | MV7636NB*1  | IDS ITEM, C-2131-5               | 3        | Prop    |                 |
| SPINNER                     | 836-36      | SPINNER ASSEMBLY                 | 1        | Prop    | w/ De-ice       |
| SPINNER                     | 836-36P     | SPINNER ASSEMBLY                 | 1        | Prop    | w/ De-ice       |
| SPINNER                     | 836-37      | SPINNER ASSEMBLY                 | 1        | Prop    |                 |
| SPINNER                     | 836-37P     | SPINNER ASSEMBLY                 | 1        | Prop    |                 |
| COUNTERWEIGHT SLUG A-29     |             | SLUG, COUNTERWEIGHT              | 3        | Blade   |                 |
| COUNTERWEIGHT SLUG B-3840-8 |             | SCREW, 10-32, FILLISTER HEAD     | 2        | Blade   |                 |
| DE-ICER                     | C-2131-5    | BOOT, ANTI-ICING                 | 1        | Blade   | Blade Component |
| MTG BOLT/STUD               | A-1328-2    | BOLT, MOUNTING, 1/2-20, 12 POINT | 6        | Prop    |                 |
| MTG BOLT/STUD               | A-1381      | WASHER, 1/2 " CRES               | 6        | Prop    | Washer          |

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**BEECH**

**Model:** 95-55, -A55, -B55  
**Trade Name:** BARON  
**Aircraft T.C./STC:** STC-SA126CE  
**Propeller Model:** (P)HC-A3MVF-2B  
**Propeller T.C.:** P6EA  
**Blade Model(s):** MV7636N  
**Prop Diameter:** 76.3" NO CUT OFF

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.25 +-0.25  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type | Item Number | Description                  | Quantity | Qty Per | Comments  |
|-----------|-------------|------------------------------|----------|---------|-----------|
| BLADE     | MV7636N     | PCP:BLADE UNIT, ALUM [1,1,1] | 3        | Prop    |           |
| SPINNER   | 836-36      | SPINNER ASSEMBLY             | 1        | Prop    | w/ De-ice |
| SPINNER   | 836-37      | SPINNER ASSEMBLY             | 1        | Prop    |           |

**IDS No.:** 222      **Rev.:** -      **DM Date:** 05/12/1998

**Modifier:** HARTZELL PROPELLER  
**Engine Model:** IO-470  
**Power:** 260 HP @ 2625 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:**  
**Feather/High Angle:** 85.0 +-1.0  
**Cwt Angle:** Positive

**Non-HPI Governor:** WOODWARD

**BEECH**

**Model:** 95-C55(A), D55(A), E55(A)  
**Trade Name:** BARON  
**Aircraft T.C./STC:** STC-SA773CE  
**Propeller Model:** BHC-C2YF-2C(H)(U)(F)  
**Propeller T.C.:** P-920  
**Blade Model(s):** FC8475-6\*1  
**Prop Diameter:** 78" TO 76"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 14.5 +-0.1  
**Stud Protrusion** 1.450 +-0.030

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number | Description                   | Quantity | Qty Per | Comments        |
|---------------|-------------|-------------------------------|----------|---------|-----------------|
| BLADE         | FC8475-6*1  | PCP:BLADE UNIT, B-3202H-2 CWT | 2        | Prop    |                 |
| SPINNER       | C-2285-1    | SPINNER ASSEMBLY              | 1        | Prop    |                 |
| SPINNER       | C-2285-1P   | SPINNER ASSEMBLY              | 1        | Prop    |                 |
| SPINNER       | C-2285-6    | SPINNER ASSEMBLY              | 1        | Prop    |                 |
| SPINNER       | C-2285-6P   | SPINNER ASSEMBLY              | 1        | Prop    |                 |
| SPIN MTG KIT  | A-2476-8    | SPINNER - MTG KIT             | 1        | Prop    |                 |
| COUNTERWEIGHT | B-3202H-2   | PCP:COUNTERWEIGHT             | 1        | Blade   | Blade Component |
| MTG BOLT/STUD | A-2429-4    | STUD, MOUNTING, 1/2-20        | 6        | Prop    |                 |

**IDS No.:** 223      **Rev.:** 1      **BC Date:** 07/14/2014

**Modifier:** HARTZELL PROPELLER  
**Engine Model:** IO-520-C, -CB  
**Power:** 285 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** 20.0 +-1.5  
**Feather/High Angle:** 80.0 +-0.5  
**Cwt Angle:**

**Non-HPI Governor:** WOODWARD

# HARTZELL

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**BEECH**

IDS No.: 225      Rev.: 2      IC      Date: 07/07/2015

**Model:** 95-C55(A), D55(A), E55(A)  
**Trade Name:** BARON  
**Aircraft T.C./STC:** STC-SA773CE  
**Propeller Model:** BHC-C2YF-2C(H)(U)(F)  
**Propeller T.C.:** P-920  
**Blade Model(s):** FC8475-6  
**Prop Diameter:** 78" TO 77"

**Modifier:** HARTZELL PROPELLER  
**Engine Model:** IO-520-C, -CB  
**Power:** 285 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 14.5 +-0.1  
**Stud Protrusion** 1.450 +-0.030

**Startlock Angle:** 20.0 +-1.5  
**Feather/High Angle:** 80.0 +-0.5  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:** WOODWARD

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>            | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|-------------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | C2F00180           | BHC-C2YF-2CHUF/FC8475-6       | 0               |                |                          |
| BLADE            | FC8475-6           | PCP:BLADE UNIT, B-3202H-4 CWT | 0               |                |                          |
| SPINNER          | C-2285-1           | SPINNER ASSEMBLY              | 1               | Prop           |                          |
| SPINNER          | C-2285-1P          | SPINNER ASSEMBLY              | 1               | Prop           |                          |
| SPINNER          | C-2285-6           | SPINNER ASSEMBLY              | 1               | Prop           |                          |
| SPINNER          | C-2285-6P          | SPINNER ASSEMBLY              | 1               | Prop           |                          |
| COUNTERWEIGHT    | B-3202H-4          | PCP:COUNTERWEIGHT             | 1               | Blade          |                          |
| MTG BOLT/STUD    | A-2429-4           | STUD, MOUNTING, 1/2-20        | 6               | Prop           |                          |
| OVERHAUL KIT     | BHC-C2YF-2CHUF     | O/H KIT                       | 1               | Prop           | For aftermarket use only |

# HARTZELL

## APPLICATION GUIDE

159

**BEECH**

**Model:** E55, E55A  
**Trade Name:** BARON  
**Aircraft T.C./STC:** STC-SA773CE  
**Propeller Model:** BHC-J2YF-2CU(F)  
**Propeller T.C.:** P37EA  
**Blade Model(s):** FC8475-6  
 FC8475-6\*1  
**Prop Diameter:** 78" TO 76"

**IDS No.:** 227      **Rev.:** 1      **BC Date:** 07/09/2014

**Modifier:** HARTZELL PROPELLER  
**Engine Model:** IO-520-C  
**Power:** 285 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:** Use C-2285-4(P) or C-2285-5(P) with air conditioned installation. Use C-2285-1(P) or C-2285-6(P) with non-air conditioned installation.

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 14.5 +-0.1  
**Stud Protrusion:** 1.450 +-0.030

**Startlock Angle:** 20.0 +-1.5  
**Feather/High Angle:** 80.0 +-0.5  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:** WOODWARD

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>             | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>     |
|------------------|--------------------|--------------------------------|-----------------|----------------|---------------------|
| PROPELLER        | J2F00060           | BHC-J2YF-2CUF/FC8475-6/SM8     | 2               | A/C            |                     |
| PROPELLER        | J2F00062           | BHC-J2YF-2CUF/FC8475B-6[*1/SM8 | 2               | A/C            |                     |
| BLADE            | FC8475-6           | PCP:BLADE UNIT, B-3202H-4 CWT  | 2               | Prop           |                     |
| BLADE            | FC8475-6*1         | PCP:BLADE UNIT, B-3202H-2 CWT  | 2               | Prop           |                     |
| SPINNER          | C-2285-1           | SPINNER ASSEMBLY               | 1               | Prop           |                     |
| SPINNER          | C-2285-1P          | SPINNER ASSEMBLY               | 1               | Prop           |                     |
| SPINNER          | C-2285-4           | SPINNER ASSEMBLY               | 1               | Prop           |                     |
| SPINNER          | C-2285-5           | SPINNER ASSEMBLY               | 1               | Prop           | Air conditioned     |
| SPINNER          | C-2285-6           | SPINNER ASSEMBLY               | 1               | Prop           | Non Air conditioned |
| SP MT KIT DE-ICE | A-2476-8           | SPINNER - MTG KIT              | 1               | Prop           |                     |
| COUNTERWEIGHT    | B-3202H-2          | PCP:COUNTERWEIGHT              | 1               | Blade          | Blade Component     |
| COUNTERWEIGHT    | B-3202H-4          | PCP:COUNTERWEIGHT              | 1               | Blade          | Blade Component     |
| MTG BOLT/STUD    | A-2429-4           | STUD, MOUNTING, 1/2-20         | 6               | Prop           |                     |

# HARTZELL

## APPLICATION GUIDE

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**BEECH**

**Model:** 95-55, -A55, -B55, -B55A, -B55B  
**Trade Name:** BARON  
**Aircraft T.C./STC:** STC SA432SO  
**Propeller Model:** EHC-G3YF-2UF  
**Propeller T.C.:** P55GL  
**Blade Model(s):** FC7663D-4T  
 FC7663DB-4T  
**Prop Diameter:** 74.0" NO CUT OFF

**IDS No.:** 233      **Rev.:** 1      **IC Date:** 07/15/2015

**Modifier:** COLEMILL ENTERPRISES

**Engine Model:** IO-520-E, IO-550-E

**Power:** 260 HP @ 2700 RPM

**Placard/Restr:**

**Notes:** AFMS to STC allows EHC-G3YF-2 prop and IO-550-E engine. AFMS also adds -B55A and -B55B. Colemill installed FC7663-4T blades from 1989 through 1996 although STC approval is not apparent.

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.8 +-0.1  
**Stud Protrusion** 1.450 +-0.030

**Startlock Angle:** 18.3 +-1.5

**Feather/High Angle:** 82.0 +-1.0

**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>            | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|-------------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | G3F00062           | EHC-G3YF-2UF/FC7663D-4T/SM9   | 2               | A/C            |                          |
| PROPELLER        | G3F00062KD         | EHC-G3YF-2UF/FC7663D-4T/SM9   | 2               | A/C            |                          |
| PROPELLER        | G3F00065           | EHC-G3YF-2UF/FC7663DB-4T/SM9  | 2               | A/C            |                          |
| BLADE            | FC7663D-4T         | PCP:BLADE UNIT, ALUMINUM      | 3               | Prop           |                          |
| BLADE            | FC7663DB-4T        | PCP:BLADE UNIT, ALUMINUM      | 3               | Prop           |                          |
| SPINNER          | C-3567-1           | SPINNER ASSEMBLY              | 1               | Prop           |                          |
| SPINNER          | C-3567-1P          | SPINNER ASSEMBLY              | 1               | Prop           |                          |
| SPIN MTG KIT     | A-2476-9           | SPINNER - MTG KIT             | 1               | Prop           |                          |
| COUNTERWEIGHT    | B-3202H-5          | PCP:COUNTERWEIGHT             | 1               | Blade          | Blade Component          |
| DE-ICER          | C-2131-3           | BOOT, ANTI-ICING              | 1               | Blade          | Blade Component          |
| DE-ICE KIT PR    | A-2386-1           | ANTI - ICE(BEECH 55&58) - KIT | 1               | Prop           |                          |
| MTG BOLT/STUD    | A-2429-4           | STUD, MOUNTING, 1/2-20        | 6               | Prop           |                          |
| OVERHAUL KIT     | EHC-G3YF-2UF-OH    | O/H KIT                       | 1               | Prop           | For aftermarket use only |

# HARTZELL

## APPLICATION GUIDE

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**BEECH**

**Model:** D55, D55A, E55, E55A, 95-C55, 95-C55A  
**Trade Name:** BARON  
**Aircraft T.C./STC:** STC-SA773CE  
**Propeller Model:** PHC-C3YF-2(U)(F)  
**Propeller T.C.:** P25EA  
**Blade Model(s):** FC7663-2R  
FC7663-2R\*2  
FC7663B-2R\*3  
FC7663B-2R\*4  
**Prop Diameter:** 76" TO 74"

**IDS No.:** 226      **Rev.:** 2      **IC Date:** 07/15/2015

**Modifier:** HARTZELL PROPELLER  
**Engine Model:** IO-520-C, -CB  
**Power:** 285 HP @ 2700 RPM  
**Placard/Restr:**

**Notes:** Check for balance weight/travel tube interference during assembly on props with alcohol de-ice

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.0 +-0.1  
**Stud Protrusion** 1.450 +-0.030

**Startlock Angle:** 18.5 +-1.5  
**Feather/High Angle:** 83.0 +-0.5  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:** WOODWARD D210439, 210662

**Hartzell Approved Items:**

| Item Type     | Item Number     | Description                      | Quantity | Qty Per | Comments                 |
|---------------|-----------------|----------------------------------|----------|---------|--------------------------|
| PROPELLER     | C3F00170        | PHC-C3YF-2UF/FC7663-2R/SM9       | 2        | A/C     |                          |
| PROPELLER     | C3F00170KD      | PHC-C3YF-2UF/FC7663-2R/SM9       | 2        | A/C     |                          |
| PROPELLER     | C3F00170SKDTP   | C3F00170/SM9/C-3567-1P/TWIN      | 1        | A/C     |                          |
| PROPELLER     | C3F00170SKDTP*1 | C3F00170/SM9/C-3567-4P/TWIN      | 1        | A/C     |                          |
| PROPELLER     | C3F00170STP     | C3F00170/SM9/C-3567-1P/TWIN      | 1        | A/C     |                          |
| PROPELLER     | C3F00170STP*1   | C3F00170/SM9/C-3567-4P/TWIN      | 1        | A/C     |                          |
| PROPELLER     | C3F00182        | PHC-C3YF-2UF/FC7663B-2R[*3]SM9   | 2        | A/C     |                          |
| PROPELLER     | C3F00182KD      | PHC-C3YF-2UF/FC7663B-2R[*3]SM9   | 2        | A/C     |                          |
| PROPELLER     | C3F00182SKDTP   | C3F00182/C-3567-1P/DE-ICE/TWIN   | 1        | A/C     |                          |
| PROPELLER     | C3F00182SKDTP*1 | C3F00182/C-3567-4P/DE-ICE/TWIN   | 1        | A/C     |                          |
| PROPELLER     | C3F00182STP     | C3F00182/C-3567-1P/DE-ICE/TWIN   | 1        | A/C     |                          |
| PROPELLER     | C3F00182STP*1   | C3F00182/C-3567-4P/DE-ICE/TWIN   | 1        | A/C     |                          |
| BLADE         | FC7663-2R       | PCP:BLADE UNIT, B-3202H-5        | 3        | Prop    |                          |
| BLADE         | FC7663-2R*2     | IDS ITEM, [3,1,1], B-3202H-5     | 3        | Prop    |                          |
| BLADE         | FC7663B-2R*3    | PCP:BLADE UNIT, ALUM C-2131-3    | 3        | Prop    |                          |
| BLADE         | FC7663B-2R*4    | BLADE, BLACK, C-2131-3/B-3202H-5 | 3        | Prop    |                          |
| SPINNER       | C-3567-1        | SPINNER ASSEMBLY                 | 1        | Prop    |                          |
| SPINNER       | C-3567-1P       | SPINNER ASSEMBLY                 | 1        | Prop    |                          |
| SPINNER       | C-3567-4        | SPINNER ASSEMBLY                 | 1        | Prop    |                          |
| SPINNER       | C-3567-4P       | SPINNER ASSEMBLY                 | 1        | Prop    |                          |
| SPIN MTG KIT  | A-2476-9        | SPINNER - MTG KIT                | 1        | Prop    |                          |
| COUNTERWEIGHT | B-3202H-5       | PCP:COUNTERWEIGHT                | 1        | Blade   | Blade Component          |
| DE-ICER       | C-2131-3        | BOOT, ANTI-ICING                 | 1        | Blade   | Blade Component          |
| DE-ICE KIT PR | A-2386-1        | ANTI - ICE(BEECH 55&58) - KIT    | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2429-4        | STUD, MOUNTING, 1/2-20           | 6        | Prop    | Use w/E-7167-2 Hub Only  |
| MTG BOLT/STUD | A-2429-7        | STUD, MOUNTING, 1/2-20           | 6        | Prop    | Use w/E-7167-12 Hub Only |
| OVERHAUL KIT  | PHC-C3YF-2UF*1  | O/H KIT W/O SLIMSERTS            | 1        | Prop    | For aftermarket use only |
| OVERHAUL KIT  | PHC-C3YF-2UF-OH | O/H KIT                          | 1        | Prop    | For aftermarket use only |

# HARTZELL

BEECH

**Model:** E55, E55A  
**Trade Name:** BARON  
**Aircraft T.C./STC:** STC-SA773CE  
**Propeller Model:** PHC-J3YF-2(U)(F)  
**Propeller T.C.:** P36EA  
**Blade Model(s):** FC7663-2R  
**Prop Diameter:** 76" TO 74"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.0 +-0.1  
**Stud Protrusion** 1.450 +-0.030

### Non-HPI Items:

**Non-HPI Spinner:**

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**IDS No.:** 228      **Rev.:** -      **DM Date:** 10/01/1992

**Modifier:** HARTZELL PROPELLER  
**Engine Model:** IO-520-C  
**Power:** 285 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** 18.5 +-1.5  
**Feather/High Angle:** 82.0 +-0.5  
**Cwt Angle:**

**Non-HPI Governor:** WOODWARD

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>        | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|---------------------------|-----------------|----------------|-----------------|
| BLADE            | FC7663-2R          | PCP:BLADE UNIT, B-3202H-5 | 3               | Prop           |                 |
| SPINNER          | C-3567-4P          | SPINNER ASSEMBLY          | 1               | Prop           |                 |
| COUNTERWEIGHT    | B-3202H-5          | PCP:COUNTERWEIGHT         | 1               | Blade          | Blade Component |
| MTG BOLT/STUD    | A-2429-4           | STUD, MOUNTING, 1/2-20    | 6               | Prop           |                 |

# HARTZELL

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BEECH

IDS No.: 237 Rev.: 1 D Date: 01/07/2011

**Model:** 95-55, -A55, -B55  
**Trade Name:** BARON  
**Aircraft T.C./STC:** STC-SA432SO  
**Propeller Model:** EHC-A3MVF-2B  
**Propeller T.C.:** P6EA  
**Blade Model(s):** MV7636N  
 MV7636N-2R  
 MV7636NB  
 MV7636NB-2R  
 MV7636NB-2R\*1  
 V7636NB-2R  
 V7636NB-2R\*1

**Modifier:** COLEMILL  
**Engine Model:** IO-520-E  
**Power:** 260 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:** Use B-2982 Spacer

**Prop Diameter:** 74.6"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.8 +-0.1  
**Stud Protrusion**

**Startlock Angle:** 18.3 +-1.5  
**Feather/High Angle:** 85.0 +-1.0  
**Cwt Angle:** Positive

### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u>   | <u>Item Number</u> | <u>Description</u>             | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|--------------------|--------------------|--------------------------------|-----------------|----------------|--------------------------|
| PROPELLER          | A3F10010           | EHC-A3MVF-2B/MV7636N           | 2               | A/C            |                          |
| PROPELLER          | A3F10020           | EHC-A3MVF-2B/MV7636NB          | 2               | A/C            |                          |
| BLADE              | MV7636N            | PCP:BLADE UNIT, ALUM [1,1,1]   | 3               | Prop           |                          |
| BLADE              | MV7636N-2R         | PCP:BLADE UNIT, ALUMINUM       | 3               | Prop           |                          |
| BLADE              | MV7636NB           | PCP:BLADE UNIT, ALUM, 4H1188-3 | 3               | Prop           |                          |
| BLADE              | MV7636NB-2R        | PCP:BLADE UNIT, ALUM, 4H1188-3 | 3               | Prop           |                          |
| BLADE              | MV7636NB-2R*1      | IDS ITEM, BLADE, C-2131-5 BOOT | 3               | Prop           |                          |
| BLADE              | V7636NB-2R         | BLADE UNIT, ALUMINUM, 4E1188-3 | 3               | Prop           | REPLACED BY MV7636NB-2R  |
| BLADE              | V7636NB-2R*1       | IDS ITEM, C-2131-5             | 3               | Prop           | REPLACED BY MV7636NB-2R  |
| SPINNER            | 836-36             | SPINNER ASSEMBLY               | 1               | Prop           | w/ De-ice                |
| SPINNER            | 836-36P            | SPINNER ASSEMBLY               | 1               | Prop           | w/ De-ice                |
| SPINNER            | 836-37             | SPINNER ASSEMBLY               | 1               | Prop           |                          |
| SPINNER            | 836-37P            | SPINNER ASSEMBLY               | 1               | Prop           |                          |
| COUNTERWEIGHT SLUG | A-29               | SLUG, COUNTERWEIGHT            | 3               | Blade          |                          |
| DE-ICER            | 4H1188-3           | DE-ICE BOOT                    | 1               | Blade          | Supersedes 7931-4E1188-3 |
| DE-ICER            | C-2131-5           | BOOT, ANTI-ICING               | 1               | Blade          | Blade Component          |
| DE-ICE KIT PR      | 7931-77-230        | IDS ITEM - DE-ICE KIT          | 1               | Prop           |                          |
| MTG BOLT/STUD      | A-2983             | STUD, MOUNTING, 1/2-20         | 6               | Prop           |                          |



# HARTZELL

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**BEECH**

**Model:** 95-C55, -D55, -E55; 58, 58A  
**Trade Name:** BARON  
**Aircraft T.C./STC:** STC-SA3845SW  
**Propeller Model:** PHC-J3YF-2UF  
**Propeller T.C.:** P36EA  
**Blade Model(s):** FC7663-2R  
 FC7663B-2R\*3  
**Prop Diameter:** 76"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.0 +-0.1  
**Stud Protrusion** 1.450 +-0.030

**IDS No.:** 235      **Rev.:** 1      **IC**      **Date:** 07/15/2015

**Modifier:** D'SHANNON PRODUCTS  
**Engine Model:** IO-550-C  
**Power:** 300 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** 18.5 +-1.5  
**Feather/High Angle:** 83.0 +- .5  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>             | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|--------------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | J3F00061           | PHC-J3YF-2UF/FC7663B-2R[*3]SM9 | 2               | A/C            |                          |
| BLADE            | FC7663-2R          | PCP:BLADE UNIT, B-3202H-5      | 3               | Prop           |                          |
| BLADE            | FC7663B-2R*3       | PCP:BLADE UNIT, ALUM C-2131-3  | 3               | Prop           |                          |
| SPINNER          | C-3567-1P          | SPINNER ASSEMBLY               | 1               | Prop           |                          |
| SPIN MTG KIT     | A-2476-9           | SPINNER - MTG KIT              | 1               | Prop           |                          |
| COUNTERWEIGHT    | B-3202H-5          | PCP:COUNTERWEIGHT              | 1               | Blade          | Blade Component          |
| DE-ICER          | C-2131-3           | BOOT, ANTI-ICING               | 1               | Blade          | Blade Component          |
| DE-ICE KIT PR    | A-2386             | ANTI - ICE(BEECH 55&58) - KIT  | 1               | Prop           |                          |
| MTG BOLT/STUD    | A-2429-4           | STUD, MOUNTING, 1/2-20         | 6               | Prop           |                          |
| OVERHAUL KIT     | PHC-J3YF-2UF-OH    | O/H KIT                        | 1               | Prop           | For aftermarket use only |

# HARTZELL

BEECH

**Model:** C55, D55, E55, 58  
**Trade Name:** FOXSTAR BARON  
**Aircraft T.C./STC:** STC-SA1762SO  
**Propeller Model:** HC-C4YF-2E  
**Propeller T.C.:** P52GL  
**Blade Model(s):** FC7063Q  
**Prop Diameter:** 74.25"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.5 +-0.1  
**Stud Protrusion** 1.450 +-0.030

### Non-HPI Items:

**Non-HPI Spinner:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>       | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|--------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | C4F00020           | HC-C4YF-2E/FC7063Q/SM20  | 2               | A/C            |                          |
| BLADE            | FC7063Q            | PCP:BLADE UNIT, ALUMINUM | 4               | Prop           |                          |
| SPINNER          | D-4511-P           | SPINNER ASSEMBLY         | 1               | Prop           |                          |
| SPIN MTG KIT     | A-2476-20          | SPINNER - MTG KIT        | 1               | Prop           |                          |
| COUNTERWEIGHT    | B-3202H-5          | PCP:COUNTERWEIGHT        | 1               | Blade          | Blade Component          |
| MTG BOLT/STUD    | B-1739             | STUD,MOUNTING,1/2-20     | 6               | Prop           |                          |
| OVERHAUL KIT     | HC-C4YF-2E-OH      | O/H KIT                  | 1               | Prop           | For aftermarket use only |

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**IDS No.:** 236      **Rev.:** 2      **IC Date:** 07/22/2020

**Modifier:** Mike Jones Aircraft  
**Engine Model:** IO-550-C  
**Power:** 300 HP @ 2700 RPM  
**Placard/Restr:**

**Notes:** Use B-1715 extension kit. Measure stud length from extension face.

**Startlock Angle:** 19.0 +-1.5

**Feather/High Angle:** 82.0 +-1.0

**Cwt Angle:**

**Non-HPI Governor:**

# HARTZELL

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**BEECH**

IDS No.: 239      Rev.: 1      IC      Date: 07/15/2015

**Model:** 56TC, A56TC  
**Trade Name:** TURBO BARON  
**Aircraft T.C./STC:** 3A16  
**Propeller Model:** HC-F3YR-2(U)(F)  
**Propeller T.C.:** P31EA  
**Blade Model(s):** FC7479-2R  
                          FC7479B-2R\*1  
                          FC7479B-2R\*2  
**Prop Diameter:** 74" NO CUT OFF

**Modifier:**  
**Engine Model:** TIO-541-E1B4  
**Power:** 380 HP @ 2900 RPM  
**Placard/Restr:**  
**Notes:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 14.0 +-0.2  
**Stud Protrusion**

**Startlock Angle:** 19.5 +-1.5  
**Feather/High Angle:** 81.7 +-0.5  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:** WOODWARD

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>             | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|--------------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | F3R00061           | HC-F3YR-2UF/FC7479B-2R[*1]/SM9 | 2               | A/C            |                          |
| PROPELLER        | F3R00061KD         | HC-F3YR-2UF/FC7479B-2R[*1]/SM9 | 2               | A/C            |                          |
| BLADE            | FC7479-2R          | PCP:BLADE UNIT, ALUMINUM       | 3               | Prop           |                          |
| BLADE            | FC7479B-2R*1       | PCP:BLADE UNIT, ALUM 4H1188-3  | 3               | Prop           |                          |
| BLADE            | FC7479B-2R*2       | IDS ITEM, BLADE, 4E1188-3 @ 4" | 3               | Prop           |                          |
| SPINNER          | C-3269             | IDS Item                       | 1               | Prop           |                          |
| SPINNER          | D-3273             | SPINNER ASSEMBLY               | 1               | Prop           |                          |
| SPINNER          | D-3273-P           | SPINNER ASSEMBLY               | 1               | Prop           |                          |
| SPIN MTG KIT     | A-2476-9           | SPINNER - MTG KIT              | 1               | Prop           |                          |
| COUNTERWEIGHT    | B-3202H-3          | PCP:COUNTERWEIGHT              | 1               | Blade          | Blade Component          |
| DE-ICER          | 4H1188-3           | DE-ICE BOOT                    | 1               | Blade          | Supersedes 7931-4E1188-3 |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20         | 6               | Prop           |                          |
| OVERHAUL KIT     | HC-F3YR-2UF-OH     | O/H KIT                        | 1               | Prop           | For aftermarket use only |

# HARTZELL

## APPLICATION GUIDE

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BEECH

IDS No.: 2464 Rev.: 1 IC Date: 07/15/2015

Model: 56TC  
Trade Name: BARON  
Aircraft T.C./STC: SA01270NY  
Propeller Model: HC-F3YR-2U(F)  
Propeller T.C.: P31EA  
Blade Model(s): FC8468-6R\*3  
Prop Diameter: 80

Modifier: Randolph Bazet  
Engine Model: IO-540-K1B5  
Power: 300 HP @ 2700 RPM  
Placard/Restr:

Notes: STC is limited to aircraft S/N TG-79

### Prop Setup:

Ref. Radius: 30  
Reverse Angle: NA  
Low Pitch Angle: 13.2 +-0.2

Startlock Angle: 21.0 +-1.5

Feather/High Angle: 81.0 +-1.0

Cwt Angle:

Stud Protrusion

### Non-HPI Items:

Non-HPI Spinner:

Non-HPI Governor:

### Hartzell Approved Items:

| Item Type     | Item Number    | Description                    | Quantity | Qty Per | Comments                 |
|---------------|----------------|--------------------------------|----------|---------|--------------------------|
| PROPELLER     | F3R00090       | HC-F3YR-2UF/FC8468-6R[*3]/SM9  | 2        | A/C     |                          |
| BLADE         | FC8468-6R*3    | PCP:BLADE UNIT, ALUM B-3202H-2 | 3        | Prop    |                          |
| SPINNER       | C-3269P        | IDS Item                       | 2        | A/C     |                          |
| SPINNER       | D-3273-P       | SPINNER ASSEMBLY               | 2        | A/C     |                          |
| SPIN MTG KIT  | A-2476-9       | SPINNER - MTG KIT              | 1        | Prop    |                          |
| COUNTERWEIGHT | B-3202H-2      | PCP:COUNTERWEIGHT              | 1        | Blade   | Blade Component          |
| MTG BOLT/STUD | A-2067         | STUD, MOUNTING, 1/2-20         | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-F3YR-2UF-OH | O/H KIT                        | 1        | Prop    | For aftermarket use only |

# HARTZELL

## APPLICATION GUIDE

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BEECH

IDS No.: 240 Rev.: 1 IC Date: 07/15/2015

**Model:** 58P, 58PA  
**Trade Name:** BARON  
**Aircraft T.C./STC:** A23CE  
**Propeller Model:** PHC-J3YF-2(U)F  
**Propeller T.C.:** P36EA  
**Blade Model(s):** FC8468-6R  
FC8468B-6R\*2  
**Prop Diameter:** 80" TO 79.5"

**Modifier:**  
**Engine Model:** TSIO-520-L, -LB  
**Power:** 310 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.0 +-0.2  
**Stud Protrusion** 1.450 +-0.030

**Startlock Angle:** 18.5 +-1.5  
**Feather/High Angle:** 83.0 +-0.5  
**Cwt Angle:**

### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:** BEECH

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>             | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|--------------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | J3F00089           | PHC-J3YF-2UF/FC8468-6R         | 2               | A/C            |                          |
| BLADE            | FC8468-6R          | PCP:BLADE,UNIT, ALUM B-3202H-2 | 3               | Prop           |                          |
| BLADE            | FC8468B-6R*2       | IDS ITEM, 4E1601-7, B-3202H-2  | 3               | Prop           |                          |
| SPINNER          | C-3567-1P          | SPINNER ASSEMBLY               | 1               | Prop           |                          |
| COUNTERWEIGHT    | B-3202H-2          | PCP:COUNTERWEIGHT              | 1               | Blade          | Blade Component          |
| DE-ICER          | 7931-4E1601-7      | PROP DE-ICER                   | 1               | Blade          | Blade Component          |
| DE-ICE KIT PR    | 7931-65-085-A      | DE-ICE KIT,4H1967-4 (ONE PROP) | 1               | Prop           |                          |
| MTG BOLT/STUD    | A-2429-4           | STUD, MOUNTING, 1/2-20         | 6               | Prop           |                          |
| OVERHAUL KIT     | PHC-J3YF-2UF-OH    | O/H KIT                        | 1               | Prop           | For aftermarket use only |

# HARTZELL

## APPLICATION GUIDE

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**BEECH**

IDS No.: 241      Rev.: 3      IC Date: 08/24/2018

**Model:** 58P, 58PA, 58TC, 58TCA

**Trade Name:** BARON

**Aircraft T.C./STC:** A23CE

**Propeller Model:** PHC-J3YF-2(U)F

**Propeller T.C.:** P36EA

**Blade Model(s):** FC7663DR  
FC7663DRB  
FC7663DRB\*1  
FC7663DRK

**Prop Diameter:** 78" TO 77.5"

**Prop Setup:**

**Ref. Radius:** 30

**Reverse Angle:** NA

**Low Pitch Angle:** 15.3 +-0.1

**Stud Protrusion** 1.450 +-0.030

**Modifier:**

**Engine Model:** TSIO-520-WB

**Power:** 325 HP @ 2700 RPM

**Placard/Restr:**

**Notes:** Engine Ratings Note: TSIO-520-L, -LB (310hp) Deice kits 65-085-A, 65-085-A\*1(ALTERNATE) and 67-125-3 are boots and wire harness only. See BFG Dwg for complete kit listing.

**Startlock Angle:** 20.8 +-1.5

**Feather/High Angle:** 84.0 +-0.5

**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:** BEECH

**Hartzell Approved Items:**

| Item Type     | Item Number     | Description                    | Quantity | Qty Per | Comments                  |
|---------------|-----------------|--------------------------------|----------|---------|---------------------------|
| PROPELLER     | J3F00070        | PHC-J3YF-2UF/FC7663DR/SM9      | 2        | A/C     |                           |
| PROPELLER     | J3F00070KD      | PHC-J3YF-2UF/FC7663DR/SM9      | 2        | A/C     |                           |
| PROPELLER     | J3F00080        | PHC-J3YF-2UF/FC7663DRB/SM9     | 2        | A/C     |                           |
| PROPELLER     | J3F00084        | PHC-J3YF-2UF/FC7663DRB[*1]/SM9 | 2        | A/C     |                           |
| PROPELLER     | J3F00084KD      | PHC-J3YF-2UF/FC7663DRB[*1]/SM9 | 2        | A/C     |                           |
| PROPELLER     | J3F00085        | PHC-J3YF-2UF/FC7663DRK/SM9     | 2        | A/C     |                           |
| PROPELLER     | J3F00085KD      | PHC-J3YF-2UF/FC7663DRK/SM9     | 2        | A/C     |                           |
| BLADE         | FC7663DR        | PCP:BLADE UNIT, ALUMINUM       | 3        | Prop    |                           |
| BLADE         | FC7663DRB       | FC7663DR BLADE, 4E1601-7 BOOT  | 3        | Prop    |                           |
| BLADE         | FC7663DRB*1     | PCP:BLADE UNIT,ALUM 4H1601-14  | 3        | Prop    |                           |
| BLADE         | FC7663DRK       | PCP:BLADE UNIT, ALUM 4H2271-10 | 3        | Prop    |                           |
| SPINNER       | C-3567          | SPINNER ASSEMBLY               | 1        | Prop    |                           |
| SPINNER       | C-3567-1        | SPINNER ASSEMBLY               | 1        | Prop    |                           |
| SPINNER       | C-3567-1P       | SPINNER ASSEMBLY               | 1        | Prop    |                           |
| SPIN MTG KIT  | A-2476-9        | SPINNER - MTG KIT              | 1        | Prop    |                           |
| COUNTERWEIGHT | B-3202H-5       | PCP:COUNTERWEIGHT              | 1        | Blade   | Blade Component           |
| DE-ICER       | 4H1601-14       | DE-ICE BOOT                    | 1        | Blade   | Supersedes 7931-4E1601-14 |
| DE-ICER       | 4H2271-10       | DE-ICE BOOT                    | 1        | Blade   | Supersedes 7931-4E2271-10 |
| DE-ICER       | 7931-4E1601-7   | PROP DE-ICER                   | 1        | Blade   | Blade Component           |
| DE-ICE KIT PR | 7931-65-085-A   | DE-ICE KIT,4H1967-4 (ONE PROP) | 1        | Prop    | For FC7663DRB             |
| DE-ICE KIT PR | 7931-65-085-A*1 | DE-ICE KIT,4H1967-3 (ONE PROP) | 1        | Prop    | For FC7663DRB*1           |
| DE-ICE KIT PR | 7931-67-125-3   | DE-ICE KIT (ONE PROP)          | 1        | Prop    | For FC7663DRK             |
| MTG BOLT/STUD | A-2429-4        | STUD, MOUNTING, 1/2-20         | 6        | Prop    |                           |
| OVERHAUL KIT  | PHC-J3YF-2UF-OH | O/H KIT                        | 1        | Prop    | For aftermarket use only  |

# HARTZELL

## APPLICATION GUIDE 159

**BEECH**

**Model:** 58, 58A  
**Trade Name:** BARON  
**Aircraft T.C./STC:** STC-SA773CE  
**Propeller Model:** BHC-J2YF-2CU(F)  
**Propeller T.C.:** P37EA  
**Blade Model(s):** FC8475-6  
 FC8475-6\*1  
 FC8475B-6\*1  
**Prop Diameter:** 78" TO 76"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 14.5 +-0.1  
**Stud Protrusion** 1.450 +-0.030

**Non-HPI Items:**

**Non-HPI Spinner:**

**IDS No.:** 247      **Rev.:** 1      **BC Date:** 07/14/2014

**Modifier:** HARTZELL PROPELLER  
**Engine Model:** IO-520-C  
**Power:** 285 HP @ 2700 RPM  
**Placard/Restr:**

**Notes:** Use C-2285-4(P) or C-2285-5(P) with air conditioned installation. Use C-2285(P), C-2285-1(P) or C-2285-6(P) with non-air conditioned installation.

**Startlock Angle:** 20.0 +-1.5  
**Feather/High Angle:** 80.0 +-0.5  
**Cwt Angle:**

**Non-HPI Governor:** WOODWARD

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>             | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>     |
|------------------|--------------------|--------------------------------|-----------------|----------------|---------------------|
| PROPELLER        | J2F00060           | BHC-J2YF-2CUF/FC8475-6/SM8     | 2               | A/C            |                     |
| PROPELLER        | J2F00062           | BHC-J2YF-2CUF/FC8475B-6[*1/SM8 | 2               | A/C            |                     |
| BLADE            | FC8475-6           | PCP:BLADE UNIT, B-3202H-4 CWT  | 2               | Prop           |                     |
| BLADE            | FC8475-6*1         | PCP:BLADE UNIT, B-3202H-2 CWT  | 2               | Prop           |                     |
| BLADE            | FC8475B-6*1        | PCP:BLADE UNIT, C-2131-4       | 2               | Prop           |                     |
| SPINNER          | C-2285             | SPINNER ASSEMBLY               | 1               | Prop           |                     |
| SPINNER          | C-2285-1           | SPINNER ASSEMBLY               | 1               | Prop           |                     |
| SPINNER          | C-2285-1P          | SPINNER ASSEMBLY               | 1               | Prop           |                     |
| SPINNER          | C-2285-4           | SPINNER ASSEMBLY               | 1               | Prop           |                     |
| SPINNER          | C-2285-5           | SPINNER ASSEMBLY               | 1               | Prop           | Air conditioned     |
| SPINNER          | C-2285-6           | SPINNER ASSEMBLY               | 1               | Prop           | Non air conditioned |
| SPINNER          | C-2285P            | IDS ITEM                       | 1               | Prop           |                     |
| SP MT KIT DE-ICE | A-2476-8           | SPINNER - MTG KIT              | 1               | Prop           |                     |
| COUNTERWEIGHT    | B-3202H-2          | PCP:COUNTERWEIGHT              | 1               | Blade          | Blade Component     |
| COUNTERWEIGHT    | B-3202H-4          | PCP:COUNTERWEIGHT              | 1               | Blade          | Blade Component     |
| DE-ICER          | C-2131-4           | BOOT, ANTI-ICING               | 1               | Blade          |                     |
| DE-ICE KIT PR    | A-2374             | ANTI-ICING - KIT               | 1               | Prop           |                     |
| MTG BOLT/STUD    | A-2429-4           | STUD, MOUNTING, 1/2-20         | 6               | Prop           |                     |

# HARTZELL

## APPLICATION GUIDE 159

**BEECH**

**Model:** 58, 58A  
**Trade Name:** BARON  
**Aircraft T.C./STC:** STC-SA773CE  
**Propeller Model:** BHC-J2YF-2C(U)(F)  
**Propeller T.C.:** P37EA  
**Blade Model(s):** FC8475-6  
 FC8475-6\*1  
 FC8475B-6\*1  
**Prop Diameter:** 78" TO 76"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 14.5 +-0.1  
**Stud Protrusion** 1.450 +-0.030

**Non-HPI Items:**

**Non-HPI Spinner:**

**IDS No.:** 246      **Rev.:** 1      **BC Date:** 07/14/2014

**Modifier:** HARTZELL PROPELLER  
**Engine Model:** IO-520-C  
**Power:** 285 HP @ 2700 RPM  
**Placard/Restr:**

**Notes:** Use C-2285-4(P) or C-2285-5(P) with air conditioned installation. Use C-2285(P), C-2285-1(P) or C-2285-6(P) with non-air conditioned installation.

**Startlock Angle:** 20.0 +-1.5  
**Feather/High Angle:** 80.0 +-0.5  
**Cwt Angle:**

**Non-HPI Governor:** WOODWARD

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>             | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>     |
|------------------|--------------------|--------------------------------|-----------------|----------------|---------------------|
| PROPELLER        | J2F00060           | BHC-J2YF-2CUF/FC8475-6/SM8     | 2               | A/C            |                     |
| PROPELLER        | J2F00062           | BHC-J2YF-2CUF/FC8475B-6[*1/SM8 | 2               | A/C            |                     |
| BLADE            | FC8475-6           | PCP:BLADE UNIT, B-3202H-4 CWT  | 2               | Prop           |                     |
| BLADE            | FC8475-6*1         | PCP:BLADE UNIT, B-3202H-2 CWT  | 2               | Prop           |                     |
| BLADE            | FC8475B-6*1        | PCP:BLADE UNIT, C-2131-4       | 2               | Prop           |                     |
| SPINNER          | C-2285             | SPINNER ASSEMBLY               | 1               | Prop           |                     |
| SPINNER          | C-2285-1           | SPINNER ASSEMBLY               | 1               | Prop           |                     |
| SPINNER          | C-2285-4           | SPINNER ASSEMBLY               | 1               | Prop           |                     |
| SPINNER          | C-2285-4P          | SPINNER ASSEMBLY               | 1               | Prop           |                     |
| SPINNER          | C-2285-5           | SPINNER ASSEMBLY               | 1               | Prop           | Air conditioned     |
| SPINNER          | C-2285-6           | SPINNER ASSEMBLY               | 1               | Prop           | Non air conditioned |
| SP MT KIT DE-ICE | A-2476-8           | SPINNER - MTG KIT              | 1               | Prop           |                     |
| COUNTERWEIGHT    | B-3202H-2          | PCP:COUNTERWEIGHT              | 1               | Blade          | Blade Component     |
| COUNTERWEIGHT    | B-3202H-4          | PCP:COUNTERWEIGHT              | 1               | Blade          | Blade Component     |
| DE-ICER          | C-2131-4           | BOOT, ANTI-ICING               | 1               | Blade          |                     |
| DE-ICE KIT PR    | A-2374             | ANTI-ICING - KIT               | 1               | Prop           |                     |
| MTG BOLT/STUD    | A-2429-4           | STUD, MOUNTING, 1/2-20         | 6               | Prop           |                     |



# HARTZELL

## APPLICATION GUIDE

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**BEECH**

IDS No.: 2492      Rev.: 2      IC      Date: 07/15/2015

**Model:** 58, 58A, G58  
**Trade Name:** BARON  
**Aircraft T.C./STC:** SA 10551SC  
**Propeller Model:** PHC-J3YF-2UF  
**Propeller T.C.:** P36EA  
**Blade Model(s):** FC7391D  
 FC7391DK  
**Prop Diameter:** 75"

**Modifier:** HARTZELL PROPELLER INC  
**Engine Model:** IO-550-C  
**Power:** 300 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** 12.8 +-0.2  
**Stud Protrusion** 1.450 +-0.030

**Startlock Angle:** 18.5 +-1.0  
**Feather/High Angle:** 80 +-0.5  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type      | Item Number     | Description                   | Quantity | Qty Per | Comments                  |
|----------------|-----------------|-------------------------------|----------|---------|---------------------------|
| PROPELLER      | J3F00116        | PHC-J3YF-2UF/FC7391D/SM17     | 0        |         |                           |
| PROPELLER      | J3F00116KD      | PHC-J3YF-2UF/FC7391D/SM17     | 0        |         |                           |
| PROPELLER      | J3F00116SKDTP   | J3F00116/SM17/C-3567-1P       | 1        | A/C     |                           |
| PROPELLER      | J3F00116SKDTP*1 | J3F00116/SM17/C-3567-4P       | 1        | A/C     |                           |
| PROPELLER      | J3F00116STP     | J3F00116/SM17/C-3567-1P       | 1        | A/C     |                           |
| PROPELLER      | J3F00116STP*1   | J3F00116/SM17/C-3567-4P       | 1        | A/C     |                           |
| PROPELLER      | J3F00135        | PHC-J3YF-2UF/FC7391DK/SM17    | 0        |         |                           |
| PROPELLER      | J3F00135KD      | PHC-J3YF-2UF/FC7391DK/SM17    | 0        |         |                           |
| PROPELLER      | J3F00135SKDTP   | J3F00135/SM17/C-3567-1P/TWIN  | 1        | A/C     |                           |
| PROPELLER      | J3F00135SKDTP*1 | J3F00135/SM17/C-3567-4P/TWIN  | 1        | A/C     |                           |
| PROPELLER      | J3F00135SKDTP*2 | J3F00135/SM17/C-3567-1P/TWIN  | 1        | A/C     |                           |
| PROPELLER      | J3F00135SKDTP*3 | J3F00135/SM17/C-3567-4P/TWIN  | 1        | A/C     |                           |
| PROPELLER      | J3F00135STP     | J3F00135/SM17/C-3567-1P/TWIN  | 1        | A/C     |                           |
| PROPELLER      | J3F00135STP*1   | J3F00135/SM17/C-3567-4P/TWIN  | 1        | A/C     |                           |
| PROPELLER      | J3F00135STP*2   | J3F00135/SM17/C-3567-1P/TWIN  | 1        | A/C     |                           |
| PROPELLER      | J3F00135STP*3   | J3F00135/SM17/C-3567-4P/TWIN  | 1        | A/C     |                           |
| BLADE          | FC7391D         | PCP:BLADE UNIT, ALUM [6,1,5]  | 3        | Prop    |                           |
| BLADE          | FC7391DK        | PCP:BLADE UNIT, ALUM [6,1,5]  | 3        | Prop    |                           |
| SPINNER        | C-3567-1P       | SPINNER ASSEMBLY              | 1        | Prop    |                           |
| SPINNER        | C-3567-4P       | SPINNER ASSEMBLY              | 1        | Prop    | w/ A/C                    |
| SPIN MTG KIT   | A-2476-17       | SPINNER - MTG KIT             | 1        | Prop    |                           |
| COUNTERWEIGHT  | B-3202H-1       | PCP:COUNTERWEIGHT             | 1        | Blade   | Blade Component           |
| DE-ICER        | 4H2271-15       | DE-ICE BOOT                   | 1        | Blade   | Supersedes 7931-4E2271-15 |
| DE-ICE KIT PR  | 7931-5E2793-1   | DE-ICE KIT (ONE PROP)         | 1        | Prop    |                           |
| DE-ICE KIT A/F | 7931-5E2793-4   | AIRFRAME DE-ICE NO AC MC PROP | 1        | A/C     |                           |
| DE-ICE KIT A/F | 7931-5E2793-5   | AIRFRAME DE-ICE W/AC MC PROP  | 1        | A/C     |                           |
| MTG BOLT/STUD  | A-2429-4        | STUD, MOUNTING, 1/2-20        | 6        | Prop    |                           |
| OVERHAUL KIT   | PHC-J3YF-2UF-OH | O/H KIT                       | 1        | Prop    | For aftermarket use only  |

# HARTZELL

## APPLICATION GUIDE

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**BEECH**

**IDS No.:** 2885      **Rev.:** 6      **IC Date:** 05/19/2020

**Model:** 58, 58A, G58  
**Trade Name:** BARON  
**Aircraft T.C./STC:** SA10551SC  
**Propeller Model:** PHC-J3YF-2UF  
**Propeller T.C.:** P36EA  
**Blade Model(s):** FC7391D\*1  
                           FC7391D\*2  
                           FC7391DK\*1  
                           FC7391DK\*2  
                           FC7391DK\*3  
**Prop Diameter:** 75-73"

**Modifier:** HARTZELL PROPELLER INC  
**Engine Model:** IO-550-C  
**Power:** 300 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:** APPLICABILITY IS LIMITED TO CERTAIN SERIAL NUMBER AIRCRAFT. REFER TO STC.

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** 12.8 +-0.2  
**Stud Protrusion** 1.450 +-0.030

**Startlock Angle:** 18.5 +-1.0  
**Feather/High Angle:** 80 +-0.5  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type | Item Number | Description                    | Quantity | Qty Per | Comments  |
|-----------|-------------|--------------------------------|----------|---------|---|
| PROPELLER | J3F00118S   | PHC-J3YF-2UF/FC7391D[*1]/SM17  | 2        | A/C     | Prop for use on aircraft without A/C, no de-ice, white tip stripes, includes C-3567-1P spinner  |
| PROPELLER | J3F00119S   | PHC-J3YF-2UF/FC7391D[*1]/SM17  | 2        | A/C     | Prop for use on aircraft with A/C, no de-ice, white tip stripes, includes C-3567-4P spinner     |
| PROPELLER | J3F00136S   | PHC-J3YF-2UF/FC7391DK[*1]/SM17 | 2        | A/C     | De-Iced prop for use on aircraft without A/C, white tip stripes, includes C-3567-1P spinner     |
| PROPELLER | J3F00137S   | PHC-J3YF-2UF/FC7391DK[*1]/SM17 | 2        | A/C     | De-Iced prop for use on aircraft with A/C, white tip stripes, includes C-3567-4P spinner        |
| PROPELLER | J3F10800S   | PHC-J3YF-2UF/FC7391D[*2]/SM17  | 2        | A/C     | Prop for use on aircraft with A/C, no de-ice, silver tip stripes, includes C-3567-4P spinner    |
| PROPELLER | J3F10801S   | PHC-J3YF-2UF/FC7391D[*2]/SM17  | 2        | A/C     | Prop for use on aircraft without A/C, no de-ice, silver tip stripes, includes C-3567-1P spinner |
| PROPELLER | J3F10850    | PHC-J3YF-2UF/FC7391DK[*2]/SM17 | 2        | A/C     | De-Iced prop for use on aircraft with A/C, silver tip stripes                                   |
| PROPELLER | J3F10850KD  | PHC-J3YF-2UF/FC7391DK[*2]/SM17 | 2        | A/C     | De-Iced prop for use on aircraft with A/C, silver tip stripes                                   |
| PROPELLER | J3F10850S   | PHC-J3YF-2UF/FC7391DK[*2]/SM17 | 2        | A/C     | De-Iced prop for use on aircraft with A/C, silver tip stripes, includes C-3567-4P spinner       |
| PROPELLER | J3F10851S   | PHC-J3YF-2UF/FC7391DK[*2]/SM17 | 2        | A/C     | De-Iced prop for use on aircraft without A/C, silver tip stripes, includes C-3567-1P spinner    |
| PROPELLER | J3F10880S   | PHC-J3YF-2UF/FC7391DK[*3]/SM17 | 2        | A/C     | De-Iced prop for use on aircraft with A/C, gold tip stripes, includes C-3567-4P spinner         |
| PROPELLER | J3F10881S   | PHC-J3YF-2UF/FC7391DK[*3]/SM17 | 2        | A/C     | De-Iced prop for use on aircraft without A/C, gold tip stripes, includes C-3567-1P spinner      |
| BLADE     | FC7391D*1   | PCP:BLADE UNIT, ALUM [3,1,5]   | 3        | Prop    | Blade with white tip stripes, no de-ice boot  |
| BLADE     | FC7391D*2   | PCP:BLADE UNIT, ALUM [3,24,11] | 3        | Prop    | Blade with silver tip stripes, no de-ice boot   |
| BLADE     | FC7391DK*1  | PCP:BLADE UNIT, ALUM [3,1,5]   | 3        | Prop    | Blade with white tip stripes, includes de-icer  |
| BLADE     | FC7391DK*2  | PCP:BLADE UNIT, ALUM [3,24,11] | 3        | Prop    | Blade with silver tip stripes, includes de-icer   |

|               |                 |                                |   |       |   |
|---------------|-----------------|--------------------------------|---|-------|---|
| BLADE         | FC7391DK*3      | PCP:BLADE UNIT, ALUM [3,21,11] | 3 | Prop  | Blade with gold tip stripes, includes de-icer         |
| SPINNER       | C-3567-1        | SPINNER ASSEMBLY               | 1 | Prop  | Non-polished spinner, for use on aircraft without A/C |
| SPINNER       | C-3567-1P       | SPINNER ASSEMBLY               | 1 | Prop  | Polished spinner, for use on aircraft without A/C     |
| SPINNER       | C-3567-4        | SPINNER ASSEMBLY               | 1 | Prop  | Non-polished spinner, for use on aircraft with A/C    |
| SPINNER       | C-3567-4P       | SPINNER ASSEMBLY               | 1 | Prop  | Polished spinner, for use on aircraft with A/C        |
| SPIN MTG KIT  | A-2476-17       | SPINNER - MTG KIT              | 1 | Prop  | Included with every prop on this IDS                  |
| COUNTERWEIGHT | B-3202H-1       | PCP:COUNTERWEIGHT              | 1 | Blade | Blade Component                                       |
| DE-ICER       | 4H2271-15       | DE-ICE BOOT                    | 1 | Blade | Supersedes 7931-4E2271-15                             |
| DE-ICE KIT PR | 103294-1        | DE-ICE KIT (ONE PROP)          | 1 | Prop  | Included with de-iced props on this IDS               |
| MTG BOLT/STUD | A-2429-4        | STUD, MOUNTING, 1/2-20         | 6 | Prop  | Included with every prop on this IDS                  |
| OVERHAUL KIT  | PHC-J3YF-2UF-OH | O/H KIT                        | 1 | Prop  | For aftermarket use only                              |

### BEECH

IDS No.: 2774 Rev.: 4 IC Date: 03/23/2016

**Model:** 58, 58A

**Trade Name:** BARON

**Aircraft T.C./STC:** SA02561CH-D

**Propeller Model:** PHC-J3YF-2UF

**Propeller T.C.:** P36EA

**Blade Model(s):** FC7391DB\*1

FC7391DB\*4

**Prop Diameter:** 75"-73"

#### Prop Setup:

**Ref. Radius:** 30

**Reverse Angle:**

**Low Pitch Angle:** 12.8 +- 0.2

**Stud Protrusion** 1.450 +-0.030

**Modifier:** HARTZELL PROPELLER

**Engine Model:** IO-520-C, -CB (IO-550-C, 300 HP)

**Power:** 285 HP @ 2700 RPM

**Placard/Restr:**

**Notes:**

**Startlock Angle:** 18.5 +-1.0

**Feather/High Angle:** 80.0 +- 0.5

**Cwt Angle:**

#### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:**

#### Hartzell Approved Items:

| Item Type     | Item Number     | Description                    | Quantity | Qty Per | Comments                 |
|---------------|-----------------|--------------------------------|----------|---------|--------------------------|
| PROPELLER     | J3F00130        | PHC-J3YF-2UF/FC7391DB[*1]/SM17 | 2        |         |                          |
| PROPELLER     | J3F00130KD      | PHC-J3YF-2UF/FC7391DB[*1]/SM17 | 2        |         |                          |
| PROPELLER     | J3F00132        | PHC-J3YF-2UF/FC7391DB[*4]/SM17 | 2        | A/C     |                          |
| PROPELLER     | J3F00132KD      | PHC-J3YF-2UF/FC7391DB[*4]/SM17 | 2        | A/C     |                          |
| BLADE         | FC7391DB*1      | PCP:BLADE UNIT, C-2131-3       | 3        | Prop    |                          |
| BLADE         | FC7391DB*4      | PCP:BLADE UNIT, C-2131-3       | 3        | Prop    |                          |
| SPINNER       | C-3567-7        | SPINNER ASSEMBLY               | 2        | A/C     |                          |
| SPINNER       | C-3567-7P       | SPINNER ASSEMBLY               | 2        | A/C     |                          |
| SPINNER       | C-3567-8        | SPINNER ASSEMBLY               | 2        | A/C     |                          |
| SPINNER       | C-3567-8P       | SPINNER ASSEMBLY               | 2        | A/C     |                          |
| SPIN MTG KIT  | A-2476-17       | SPINNER - MTG KIT              | 1        | Prop    |                          |
| COUNTERWEIGHT | B-3202H-1       | PCP:COUNTERWEIGHT              | 1        | Blade   |                          |
| DE-ICER       | C-2131-3        | BOOT, ANTI-ICING               | 1        | Blade   |                          |
| DE-ICE KIT PR | 102679-1        | ANTI-ICE KIT (ONE PROP)        | 1        | Prop    | Kit w/o air conditioning |
| DE-ICE KIT PR | 102679-2        | ANTI-ICE KIT (ONE PROP)        | 1        | Prop    | Kit for air conditioning |
| MTG BOLT/STUD | A-2429-4        | STUD, MOUNTING, 1/2-20         | 6        | Prop    |                          |
| OVERHAUL KIT  | PHC-J3YF-2UF-OH | O/H KIT                        | 1        | Prop    | For aftermarket use only |

# HARTZELL

## APPLICATION GUIDE

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BEECH

IDS No.: 249 Rev.: 3 IC Date: 09/16/2022

Model: 58, 58A  
 Trade Name: BARON  
 Aircraft T.C./STC: STC-SA773CE  
 Propeller Model: PHC-J3YF-2(U)(F)  
 Propeller T.C.: P36EA  
 Blade Model(s): FC7663-2R  
 Prop Diameter: 76" TO 74"

Modifier: HARTZELL PROPELLER  
 Engine Model: IO-520-C  
 Power: 285 HP @ 2700 RPM  
 Placard/Restr:  
 Notes:

**Prop Setup:**

Ref. Radius: 30  
 Reverse Angle: NA  
 Low Pitch Angle: 13.0 +-0.1  
 Stud Protrusion 1.450 +-0.030

Startlock Angle: 18.5 +-1.5  
 Feather/High Angle: 82.0 +-1.0  
 Cwt Angle:

**Non-HPI Items:**

Non-HPI Spinner:

Non-HPI Governor: WOODWARD

**Hartzell Approved Items:**

| Item Type     | Item Number     | Description                 | Quantity | Qty Per | Comments                 |
|---------------|-----------------|-----------------------------|----------|---------|--------------------------|
| PROPELLER     | J3F00060        | PHC-J3YF-2UF/FC7663-2R/SM9  | 2        | A/C     |                          |
| PROPELLER     | J3F00060KD      | PHC-J3YF-2UF/FC7663-2R/SM9  | 2        | A/C     |                          |
| PROPELLER     | J3F00060SKDTP   | J3F00060/SM9/C-3567-1P/TWIN | 2        | A/C     |                          |
| PROPELLER     | J3F00060SKDTP*1 | J3F00060/SM9/C-3567-4P/TWIN | 2        | A/C     |                          |
| BLADE         | FC7663-2R       | PCP:BLADE UNIT, B-3202H-5   | 3        | Prop    |                          |
| SPINNER       | C-3567          | SPINNER ASSEMBLY            | 1        | Prop    |                          |
| SPINNER       | C-3567-1        | SPINNER ASSEMBLY            | 1        | Prop    |                          |
| SPINNER       | C-3567-1P       | SPINNER ASSEMBLY            | 1        | Prop    |                          |
| SPINNER       | C-3567-4        | SPINNER ASSEMBLY            | 1        | Prop    | WITH AIR CONDITIONING    |
| SPINNER       | C-3567-4P       | SPINNER ASSEMBLY            | 1        | Prop    | WITH AIR CONDITIONING    |
| SPIN MTG KIT  | A-2476-9        | SPINNER - MTG KIT           | 1        | Prop    |                          |
| COUNTERWEIGHT | B-3202H-5       | PCP:COUNTERWEIGHT           | 1        | Blade   | Blade Component          |
| MTG BOLT/STUD | A-2429-4        | STUD, MOUNTING, 1/2-20      | 6        | Prop    |                          |
| OVERHAUL KIT  | PHC-J3YF-2UF-OH | O/H KIT                     | 1        | Prop    | For aftermarket use only |

# HARTZELL

## APPLICATION GUIDE

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**BEECH**

IDS No.: 248      Rev.: 2      IC Date: 07/15/2015

**Model:** 58, 58A  
**Trade Name:** BARON  
**Aircraft T.C./STC:** STC-SA773CE  
**Propeller Model:** PHC-J3YF-2UF  
**Propeller T.C.:** P36EA  
**Blade Model(s):** FC7663-2R  
                             FC7663-2R\*2  
                             FC7663B-2R\*3  
                             FC7663B-2R\*4  
**Prop Diameter:** 76" TO 74"

**Modifier:** HARTZELL PROPELLER  
**Engine Model:** IO-520-C  
**Power:** 285 HP @ 2700 RPM  
**Placard/Restr:**

**Notes:** Refer to Aircraft TC for anti-ice approval.  
 Check for balance weight/travel tube interference during assembly on props with alcohol de-ice.

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.0 +-0.2  
**Stud Protrusion** 1.450 +-0.030

**Startlock Angle:** 18.5 +-1.5  
**Feather/High Angle:** 82.0 +-1.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:** WOODWARD

**Hartzell Approved Items:**

| Item Type     | Item Number     | Description                    | Quantity | Qty Per | Comments                 |
|---------------|-----------------|--------------------------------|----------|---------|--------------------------|
| PROPELLER     | J3F00060        | PHC-J3YF-2UF/FC7663-2R/SM9     | 2        | A/C     |                          |
| PROPELLER     | J3F00060KD      | PHC-J3YF-2UF/FC7663-2R/SM9     | 2        | A/C     |                          |
| PROPELLER     | J3F00060SKDTP   | J3F00060/SM9/C-3567-1P/TWIN    | 1        | A/C     |                          |
| PROPELLER     | J3F00060SKDTP*1 | J3F00060/SM9/C-3567-4P/TWIN    | 1        | A/C     |                          |
| PROPELLER     | J3F00060STP     | J3F00060/SM9/C-3567-1P/TWIN    | 1        | A/C     |                          |
| PROPELLER     | J3F00060STP*1   | J3F00060/SM9/C-3567-4P/TWIN    | 1        | A/C     |                          |
| PROPELLER     | J3F00062        | PHC-J3YF-2UF/FC7663B-2R[*3]SM9 | 2        | A/C     |                          |
| PROPELLER     | J3F00062KD      | PHC-J3YF-2UF/FC7663B-2R[*3]SM9 | 2        | A/C     |                          |
| PROPELLER     | J3F00062SKDTP   | J3F00062/C-3567-1P/DE-ICE/TWIN | 1        | A/C     |                          |
| PROPELLER     | J3F00062SKDTP*1 | J3F00062/C-3567-4P/DE-ICE/TWIN | 1        | A/C     |                          |
| PROPELLER     | J3F00062STP     | J3F00062/C-3567-1P/DE-ICE/TWIN | 1        | A/C     |                          |
| PROPELLER     | J3F00062STP*1   | J3F00062/C-3567-4P/DE-ICE/TWIN | 1        | A/C     |                          |
| BLADE         | FC7663-2R       | PCP:BLADE UNIT, B-3202H-5      | 3        | Prop    |                          |
| BLADE         | FC7663-2R*2     | IDS ITEM, [3,1,1], B-3202H-5   | 3        | Prop    |                          |
| BLADE         | FC7663B-2R*3    | PCP:BLADE UNIT, ALUM C-2131-3  | 3        | Prop    |                          |
| BLADE         | FC7663B-2R*4    | BLADE,BLACK,C-2131-3/B-3202H-5 | 3        | Prop    |                          |
| SPINNER       | C-3567          | SPINNER ASSEMBLY               | 1        | Prop    |                          |
| SPINNER       | C-3567-1        | SPINNER ASSEMBLY               | 1        | Prop    |                          |
| SPINNER       | C-3567-1P       | SPINNER ASSEMBLY               | 1        | Prop    |                          |
| SPINNER       | C-3567-4        | SPINNER ASSEMBLY               | 1        | Prop    | w/ A/C                   |
| SPINNER       | C-3567-4P       | SPINNER ASSEMBLY               | 1        | Prop    |                          |
| SPIN MTG KIT  | A-2476-9        | SPINNER - MTG KIT              | 1        | Prop    |                          |
| COUNTERWEIGHT | B-3202H-5       | PCP:COUNTERWEIGHT              | 1        | Blade   | Blade Component          |
| DE-ICER       | C-2131-3        | BOOT, ANTI-ICING               | 1        | Blade   | Blade Component          |
| DE-ICE KIT PR | A-2386          | ANTI - ICE(BEECH 55&58) - KIT  | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2429-4        | STUD, MOUNTING, 1/2-20         | 6        | Prop    |                          |
| OVERHAUL KIT  | PHC-J3YF-2UF-OH | O/H KIT                        | 1        | Prop    | For aftermarket use only |

# HARTZELL

## APPLICATION GUIDE

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BEECH

IDS No.: 245      Rev.: 2      IC Date: 07/15/2015

**Model:** 58P, 58TC  
**Trade Name:** BARON  
**Aircraft T.C./STC:** STC-SA1207NW  
**Propeller Model:** PHC-J3YF-2UF  
**Propeller T.C.:** P36EA  
**Blade Model(s):** FC7663DRB  
 FC7663DRB\*1  
**Prop Diameter:** 78" NO CUT OFF

**Modifier:** RAM AIRCRAFT CORP  
**Engine Model:** TSIO-520-WB  
**Power:** 325 HP @ 2700 RPM  
**Placard/Restr:**

**Notes:** For Model 58TC, the STC only applies to aircraft S/N TK-1 through TK-84

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 15.3 +-0.1  
**Stud Protrusion** 1.450 +-0.030

**Startlock Angle:** 20.8 +-1.5  
**Feather/High Angle:** 84.0 +-0.5  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type     | Item Number     | Description                    | Quantity | Qty Per | Comments   |
|---------------|-----------------|--------------------------------|----------|---------|--|
| PROPELLER     | J3F00080        | PHC-J3YF-2UF/FC7663DRB/SM9     | 2        | A/C     |  |
| PROPELLER     | J3F00084        | PHC-J3YF-2UF/FC7663DRB[*1]/SM9 | 2        | A/C     | Prop equipped with de-ice kit and de-ice boots     |
| PROPELLER     | J3F00084KD      | PHC-J3YF-2UF/FC7663DRB[*1]/SM9 | 2        | A/C     | Same as J3F00084 except dis-assembled for shipment |
| BLADE         | FC7663DRB       | FC7663DR BLADE, 4E1601-7 BOOT  | 3        | Prop    |  |
| BLADE         | FC7663DRB*1     | PCP:BLADE UNIT,ALUM 4H1601-14  | 3        | Prop    | Blade with de-ice boot                             |
| SPINNER       | C-3567-1P       | SPINNER ASSEMBLY               | 1        | Prop    | Polished spinner, sold separately                  |
| SPIN MTG KIT  | A-2476-9        | SPINNER - MTG KIT              | 1        | Prop    |  |
| COUNTERWEIGHT | B-3202H-5       | PCP:COUNTERWEIGHT              | 1        | Blade   | Blade Component                                    |
| DE-ICER       | 4H1601-14       | DE-ICE BOOT                    | 1        | Blade   | Supersedes 7931-4E1601-14                          |
| DE-ICER       | 4H1601-7        | DE-ICE BOOT                    | 1        | Blade   | Supersedes 7931-4E1601-7                           |
| DE-ICE KIT PR | 7931-65-085-A   | DE-ICE KIT,4H1967-4 (ONE PROP) | 1        | Prop    | For FC7663DRB                                      |
| DE-ICE KIT PR | 7931-65-085-A*1 | DE-ICE KIT,4H1967-3 (ONE PROP) | 1        | Prop    | For FC7663DRB*1                                    |
| MTG BOLT/STUD | A-2429-4        | STUD, MOUNTING, 1/2-20         | 6        | Prop    | Included in all prop assemblies on this IDS        |
| OVERHAUL KIT  | PHC-J3YF-2UF-OH | O/H KIT                        | 1        | Prop    | For aftermarket use only                           |

# HARTZELL

## APPLICATION GUIDE

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**BEECH**

**Model:** 58, 58A, G58  
**Trade Name:** BARON  
**Aircraft T.C./STC:** STC-SA5533NM  
**Propeller Model:** PHC-J3YF-2UF  
**Propeller T.C.:** P36EA  
**Blade Model(s):** FC7663-2R  
 FC7663K-2R  
**Prop Diameter:** 76" TO 74"

**IDS No.:** 244      **Rev.:** 2      **IC Date:** 07/15/2015

**Modifier:** HARTZELL PROPELLER  
**Engine Model:** IO-550-C  
**Power:** 300 HP @ 2700 RPM  
**Placard/Restr:**

**Notes:** Aftermarket installation - Refer to IDS no. 1599 for OEM installation.

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.0 +-0.2  
**Stud Protrusion** 1.450 +-0.030

**Startlock Angle:** 18.5 +-1.5  
**Feather/High Angle:** 82.0 +-0.5  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:** WOODWARD

**Hartzell Approved Items:**

| Item Type      | Item Number     | Description                    | Quantity | Qty Per | Comments                       |
|----------------|-----------------|--------------------------------|----------|---------|--------------------------------|
| PROPELLER      | J3F00058        | PHC-J3YF-2UF/FC7663-2R/SM9     | 2        | A/C     |                                |
| PROPELLER      | J3F00058KD      | PHC-J3YF-2UF/FC7663-2R/SM9     | 2        | A/C     |                                |
| PROPELLER      | J3F00058SKDTP   | J3F00058/SM9/C-3567-1P/TWIN    | 1        | A/C     |                                |
| PROPELLER      | J3F00058SKDTP*1 | J3F00058/SM9/C-3567-4P/TWIN    | 1        | A/C     |                                |
| PROPELLER      | J3F00058STP     | J3F00058/SM9/C-3567-1P/TWIN    | 1        | A/C     |                                |
| PROPELLER      | J3F00058STP*1   | J3F00058/SM9/C-3567-4P/TWIN    | 1        | A/C     |                                |
| PROPELLER      | J3F00088        | PHC-J3YF-2UF/FC7663K-2R/SM9    | 2        | A/C     |                                |
| PROPELLER      | J3F00088KD      | PHC-J3YF-2UF/FC7663K-2R/SM9    | 2        | A/C     |                                |
| PROPELLER      | J3F00088SKDTP   | J3F00088/C-3567-1P/DE-ICE/TWIN | 1        | A/C     |                                |
| PROPELLER      | J3F00088SKDTP*1 | J3F00088/C-3567-4P/DE-ICE/TWIN | 1        | A/C     |                                |
| PROPELLER      | J3F00088STP     | J3F00088/C-3567-1P/DE-ICE/TWIN | 1        | A/C     |                                |
| PROPELLER      | J3F00088STP*1   | J3F00088/C-3567-4P/DE-ICE/TWIN | 1        | A/C     |                                |
| BLADE          | FC7663-2R       | PCP:BLADE UNIT, B-3202H-5      | 3        | Prop    |                                |
| BLADE          | FC7663K-2R      | PCP:BLADE UNIT, ALUMINUM       | 3        | Prop    |                                |
| SPINNER        | C-3567-1        | SPINNER ASSEMBLY               | 1        | Prop    |                                |
| SPINNER        | C-3567-1P       | SPINNER ASSEMBLY               | 1        | Prop    |                                |
| SPINNER        | C-3567-4        | SPINNER ASSEMBLY               | 1        | Prop    |                                |
| SPINNER        | C-3567-4P       | SPINNER ASSEMBLY               | 1        | Prop    |                                |
| SPIN MTG KIT   | A-2476-9        | SPINNER - MTG KIT              | 1        | Prop    |                                |
| COUNTERWEIGHT  | B-3202H-5       | PCP:COUNTERWEIGHT              | 1        | Blade   | Blade Component                |
| DE-ICER        | 102746          | DE-ICE BOOT                    | 1        | Blade   | Supersedes 4H2271-13&4E2271-13 |
| DE-ICE KIT PR  | 7931-67-940-1   | DE-ICE KIT (ONE PROP)          | 1        | Prop    |                                |
| DE-ICE KIT A/F | 7931-67-940-2   | AIRFRAME DE-ICE W/O AC         | 1        | A/C     | w/o A/C                        |
| DE-ICE KIT A/F | 7931-67-940-3   | AIRFRAME DE-ICE W/AC           | 1        | A/C     | w/ A/C                         |
| MTG BOLT/STUD  | A-2429-4        | STUD, MOUNTING, 1/2-20         | 6        | Prop    |                                |
| OVERHAUL KIT   | PHC-J3YF-2UF-OH | O/H KIT                        | 1        | Prop    | For aftermarket use only       |

# HARTZELL

## APPLICATION GUIDE

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**BEECH**

**Model:** 58, 58A, G58  
**Trade Name:** BARON  
**Aircraft T.C./STC:** STC-SA5533NM  
**Propeller Model:** PHC-J3YF-2UF  
**Propeller T.C.:** P36EA  
**Blade Model(s):** FC7663-2R  
 FC7663K-2R  
**Prop Diameter:** 76" TO 74"

**IDS No.:** 1599      **Rev.:** 4      **IC Date:** 07/15/2015

**Modifier:** HARTZELL PROPELLER  
**Engine Model:** IO-550-C  
**Power:** 300 HP @ 2700 RPM  
**Placard/Restr:**

**Notes:** Raytheon OEM - Refer to IDS no. 244 for aftermarket installation.

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.0 +-0.2  
**Stud Protrusion:** 1.450 +-0.030

**Startlock Angle:** 18.5 +-1.5  
**Feather/High Angle:** 82.0 +-0.5  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:** WOODWARD

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>            | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>   |
|------------------|--------------------|-------------------------------|-----------------|----------------|---|
| PROPELLER        | J3F00059           | PHC-J3YF-2UF/FC7663-2R/SM9    | 0               |                | Basic prop (no spinner, no de-ice)                                    |
| PROPELLER        | J3F00059-11        | PHC-J3YF-2UF/FC7663K-2R/+SPIN | 0               |                | Prop for use on aircraft with A/C, de-iced, with C-3567-4P spinner    |
| PROPELLER        | J3F00059-80        | PHC-J3YF-2UF/FC7663-2R/+SPIN  | 0               |                | Prop for use on aircraft without A/C, de-iced, with C-3567-1P spinner |
| PROPELLER        | J3F00059-81        | PHC-J3YF-2UF/FC7663K-2R/+SPIN | 0               |                | Prop for use on aircraft without A/C, de-iced, with C-3567-1P spinner |
| BLADE            | FC7663-2R          | PCP:BLADE UNIT, B-3202H-5     | 3               | Prop           | Blade (no de-icer), included on all non de-iced props on this IDS     |
| BLADE            | FC7663K-2R         | PCP:BLADE UNIT, ALUMINUM      | 3               | Prop           | Blade with de-ice boot, included on all de-iced props on this IDS     |
| SPINNER          | C-3567-1P          | SPINNER ASSEMBLY              | 1               | Prop           | Polished Spinner for use on aircraft without A/C                      |
| SPINNER          | C-3567-4P          | SPINNER ASSEMBLY              | 1               | Prop           | Polished Spinner for use on aircraft with A/C                         |
| SPIN MTG KIT     | A-2476-9           | SPINNER - MTG KIT             | 1               | Prop           | Included with every propeller on this IDS                             |
| COUNTERWEIGHT    | B-3202H-5          | PCP:COUNTERWEIGHT             | 1               | Blade          | Blade Component   |
| DE-ICER          | 102746             | DE-ICE BOOT                   | 1               | Blade          | Component on de-iced blade, Supersedes 4H2271-13 & 4E2271-13          |
| DE-ICE KIT PR    | 7931-67-940-1      | DE-ICE KIT (ONE PROP)         | 1               | Prop           | Included on -11 and -81 props   |
| DE-ICE KIT A/F   | 7931-67-940-2      | AIRFRAME DE-ICE W/O AC        | 1               | A/C            | For use on aircraft without A/C                                       |
| DE-ICE KIT A/F   | 7931-67-940-3      | AIRFRAME DE-ICE W/AC          | 1               | A/C            | For use on aircraft with A/C  |
| MTG BOLT/STUD    | A-2429-4           | STUD, MOUNTING, 1/2-20        | 6               | Prop           | Included on every prop on this IDS                                    |
| OVERHAUL KIT     | PHC-J3YF-2UF-OH    | O/H KIT                       | 1               | Prop           | For aftermarket use only  |



# HARTZELL

## APPLICATION GUIDE 159

**BEECH**

**Model:** 58P, 58TC  
**Trade Name:** BARON  
**Aircraft T.C./STC:** STC-SA538GL  
**Propeller Model:** PHC-A3MVF-5R  
**Propeller T.C.:**  
**Blade Model(s):** MV7636NRB  
**Prop Diameter:** 76.6"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** -15.0 +-0.5  
**Low Pitch Angle:** 17.0 +-0.2  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type                     | Item Number | Description              | Quantity | Qty Per | Comments |
|-------------------------------|-------------|--------------------------|----------|---------|----------|
| BLADE                         | MV7636NRB   | PCP:BLADE UNIT, ALUMINUM | 3        | Prop    |          |
| SPINNER                       | D-5243      | IDS Item                 | 1        | Prop    |          |
| COUNTERWEIGHT SLUG A-890-12   |             | PCP:SLUG, COUNTERWEIGHT  | 1        | Blade   |          |
| COUNTERWEIGHT SLUG B-3384-12H |             | BOLT, 1/4-28, HEX HEAD   | 2        | Blade   |          |

**IDS No.:** 243      **Rev.:** -      **DM Date:** 05/12/1998

**Modifier:** THAMER (TARD INC.)  
**Engine Model:** TSIO-520-L, -LB, -WB  
**Power:** 310 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** 21.0 +-1.0  
**Feather/High Angle:** 78.0 +-1.0  
**Cwt Angle:** Positive

**Non-HPI Governor:**

**BEECH**

**Model:** 58P, 58TC  
**Trade Name:** BARON  
**Aircraft T.C./STC:** STC-SA538GL  
**Propeller Model:** PHC-83VF-5R, PHC-A3VF-5R  
**Propeller T.C.:**  
**Blade Model(s):** V7636NRB  
**Prop Diameter:** 76.6"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** -15.0 +-0.5  
**Low Pitch Angle:** 17.0 +-0.2  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type                     | Item Number | Description             | Quantity | Qty Per | Comments |
|-------------------------------|-------------|-------------------------|----------|---------|----------|
| BLADE                         | V7636NRB    | BLADE                   | 3        | Prop    |          |
| SPINNER                       | D-5243      | IDS Item                | 1        | Prop    |          |
| COUNTERWEIGHT SLUG A-890-12   |             | PCP:SLUG, COUNTERWEIGHT | 1        | Blade   |          |
| COUNTERWEIGHT SLUG B-3384-12H |             | BOLT, 1/4-28, HEX HEAD  | 2        | Blade   |          |

**IDS No.:** 2108      **Rev.:** -      **DM Date:** 11/20/2003

**Modifier:** THAMER (TARD INC.)  
**Engine Model:** TSIO-520-L, -LB, -WB  
**Power:** 310 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** 21.0 +-1.0  
**Feather/High Angle:** 78.0 +-1.0  
**Cwt Angle:** Positive

**Non-HPI Governor:**

# HARTZELL

## APPLICATION GUIDE

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BEECH

IDS No.: 2630 Rev.: 1 IC Date: 07/15/2015

Model: 58, 58A  
 Trade Name: BARON  
 Aircraft T.C./STC: SA 10551SC  
 Propeller Model: PHC-J3YF-2UF  
 Propeller T.C.: P36EA  
 Blade Model(s): FC7391D  
 Prop Diameter: 75"

Modifier: HARTZELL PROPELLER INC  
 Engine Model: IO-520-C, -CB  
 Power: 285 HP @ 2700 RPM  
 Placard/Restr:  
 Notes:

**Prop Setup:**

Ref. Radius: 30  
 Reverse Angle:  
 Low Pitch Angle: 12.5 +-0.2  
 Stud Protrusion 1.450 +-0.030

Startlock Angle: 18.5 +-1.0  
 Feather/High Angle: 80.0 +-0.5  
 Cwt Angle:

**Non-HPI Items:**

Non-HPI Spinner:

Non-HPI Governor:

**Hartzell Approved Items:**

| Item Type     | Item Number     | Description                  | Quantity | Qty Per | Comments                 |
|---------------|-----------------|------------------------------|----------|---------|--------------------------|
| PROPELLER     | J3F00117        | PHC-J3YF-2UF/FC7391D/SM17    | 2        | A/C     |                          |
| BLADE         | FC7391D         | PCP:BLADE UNIT, ALUM [6,1,5] | 3        | Prop    |                          |
| SPINNER       | C-3567-1        | SPINNER ASSEMBLY             | 1        | Prop    |                          |
| SPINNER       | C-3567-1P       | SPINNER ASSEMBLY             | 1        | Prop    |                          |
| SPINNER       | C-3567-4        | SPINNER ASSEMBLY             | 1        | Prop    |                          |
| SPINNER       | C-3567-4P       | SPINNER ASSEMBLY             | 1        | Prop    | w/ A/C                   |
| SPIN MTG KIT  | A-2476-17       | SPINNER - MTG KIT            | 1        | Prop    |                          |
| COUNTERWEIGHT | B-3202H-1       | PCP:COUNTERWEIGHT            | 1        | Blade   | Blade Component          |
| MTG BOLT/STUD | A-2429-4        | STUD, MOUNTING, 1/2-20       | 6        | Prop    |                          |
| OVERHAUL KIT  | PHC-J3YF-2UF-OH | O/H KIT                      | 1        | Prop    | For aftermarket use only |

# HARTZELL

## APPLICATION GUIDE

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BEECH

IDS No.: 250      Rev.: 1      IC Date: 07/15/2015

**Model:** 60, A60, B60  
**Trade Name:** DUKE  
**Aircraft T.C./STC:** A12CE  
**Propeller Model:** HC-F3YR-2, -2F, -2UF  
**Propeller T.C.:** P31EA  
**Blade Model(s):** FC7479-2R  
                          FC7479B-2R  
                          FC7479B-2R\*1  
                          FC7479K-2R  
**Prop Diameter:** 74.0" TO 73.5"

**Modifier:**  
**Engine Model:** TIO-541-E1A4, -E1C4  
**Power:** 380 HP @ 2900 RPM  
**Placard/Restr:**  
**Notes:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.5 +-0.2  
**Stud Protrusion**

**Startlock Angle:** 19.0 +-1.5  
**Feather/High Angle:** 81.7 +-0.5  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type     | Item Number    | Description                    | Quantity | Qty Per | Comments                      |
|---------------|----------------|--------------------------------|----------|---------|-------------------------------|
| PROPELLER     | F3R00050       | HC-F3YR-2UF/FC7479-2R/SM9      | 2        | A/C     |                               |
| PROPELLER     | F3R00060       | HC-F3YR-2UF/FC7479B-2R/SM9     | 2        | A/C     |                               |
| PROPELLER     | F3R00060KD     | HC-F3YR-2UF/FC7479B-2R/SM9     | 2        | A/C     |                               |
| BLADE         | FC7479-2R      | PCP:BLADE UNIT, ALUMINUM       | 3        | Prop    |                               |
| BLADE         | FC7479B-2R     | PCP:BLADE UNIT, ALUM 4H1601-7  | 3        | Prop    |                               |
| BLADE         | FC7479B-2R*1   | PCP:BLADE UNIT, ALUM 4H1188-3  | 3        | Prop    |                               |
| BLADE         | FC7479K-2R     | PCP:BLADE UNIT, ALUM 4H2271-10 | 3        | Prop    |                               |
| SPINNER       | D-3273         | SPINNER ASSEMBLY               | 1        | Prop    |                               |
| SPINNER       | D-3273-P       | SPINNER ASSEMBLY               | 1        | Prop    |                               |
| SPIN MTG KIT  | A-2476-9       | SPINNER - MTG KIT              | 1        | Prop    |                               |
| COUNTERWEIGHT | B-3202H-3      | PCP:COUNTERWEIGHT              | 1        | Blade   | Blade Component               |
| DE-ICER       | 4H1188-3       | DE-ICE BOOT                    | 1        | Blade   | Supersedes 7931-4E1188-3      |
| DE-ICER       | 4H2271-10      | DE-ICE BOOT                    | 1        | Blade   | Supersedes 7931-4E2271-10     |
| DE-ICER       | 7931-4E1601-7  | PROP DE-ICER                   | 1        | Blade   | Blade Component               |
| DE-ICE KIT PR | 7931-67-240-1  | DE-ICE KIT                     | 1        | Prop    | For use with FC7479K-2R blade |
| DE-ICE KIT PR | 7931-77-040    | IDS ITEM                       | 1        | Prop    |                               |
| DE-ICE KIT PR | 7931-77-045-1  | DE-ICE KIT (ONE PROP)          | 1        | Prop    |                               |
| DE-ICE KIT PR | 7931-77-170    | IDS ITEM                       | 1        | Prop    |                               |
| MTG BOLT/STUD | A-2067         | STUD, MOUNTING, 1/2-20         | 6        | Prop    |                               |
| OVERHAUL KIT  | HC-F3YR-2UF-OH | O/H KIT                        | 1        | Prop    | For aftermarket use only      |

# HARTZELL

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**BEECH**

IDS No.: 2613      Rev.: 3      IC Date: 08/14/2015

**Model:** B60 (only)  
**Trade Name:**  
**Aircraft T.C./STC:** STC SA01672SE  
**Propeller Model:** HC-E4N-3N  
**Propeller T.C.:** P10NE

**Modifier:** Northwest Turbine, LLC  
**Engine Model:** PT6A-35, PT6A-21  
**Power:** 525 HP @ 2190 RPM  
**Placard/Restr:** Stabilized ground operation is prohibited between 450 and 1250 RPM. The propeller may be operated while feathered at or below 450 RPM.

**Blade Model(s):** D8292-2  
 D8292B-2

**Notes:** Modified by Rocket Engineering

**Prop Diameter:** 80.5"- 80"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** -10.0 +-0.5  
**Low Pitch Angle:** 19.7 +-0.1  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 83.2 +-0.5  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>             | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>           |
|------------------|--------------------|--------------------------------|-----------------|----------------|---------------------------|
| PROPELLER        | E4N00530S          | HC-E4N-3N/D8292-2/D-630-1P     | 2               | A/C            |                           |
| PROPELLER        | E4N00530SKD        | HC-E4N-3N/D8292-2/D-630-1P     | 2               | A/C            |                           |
| PROPELLER        | E4N00550S          | HC-E4N-3N/D8292B-2/D-630-1P    | 2               | A/C            |                           |
| BLADE            | D8292-2            | PCP:BLADE UNIT, ALUMINUM       | 4               | Prop           |                           |
| BLADE            | D8292B-2           | PCP:BLADE UNIT, ALUM [1,1,1]   | 4               | Prop           |                           |
| SPINNER          | D-630-1            | SPINNER ASSEMBLY               | 1               | Prop           |                           |
| SPINNER          | D-630-1P           | SPINNER ASSEMBLY               | 1               | Prop           |                           |
| SPIN MTG KIT     | B-3384-2H          | BOLT, 1/4-28, HEX HEAD         | 8               | Prop           |                           |
| SPIN MTG KIT     | B-3851-0432        | WASHER                         | 8               | Prop           |                           |
| SP MT KIT DE-ICE | A-2070-7           | SCREW, 1/4-28, BUTTON HEAD     | 8               | Prop           |                           |
| COUNTERWEIGHT    | C-472-3            | PCP:COUNTERWEIGHT              | 1               | Blade          |                           |
| DE-ICER          | 4H1601-10          | DE-ICE BOOT                    | 1               | Blade          | Supersedes 7931-4E1601-10 |
| DE-ICE KIT PR    | 7931-5E2804-1      | DE-ICE KIT (ONE PROP)          | 1               | Prop           |                           |
| MTG BOLT/STUD    | B-3339-1           | BOLT,MOUNTING,9/16-18,12 POINT | 8               | Prop           |                           |
| MISC ACCES       | A-3044             | BLOCK, BETA FEEDBACK- ASSEMBLY | 1               | Prop           |                           |
| OVERHAUL KIT     | HC-E4N-3N-OH       | O/H KIT                        | 1               | Prop           | For aftermarket use only  |

# HARTZELL

## APPLICATION GUIDE

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BEECH

IDS No.: 251      Rev.: 1      D      Date: 01/07/2011

**Model:** 65  
**Trade Name:** QUEEN AIR  
**Aircraft T.C./STC:** 3A20  
**Propeller Model:** HC-93Z20-2C1  
**Propeller T.C.:** P-891  
**Blade Model(s):** 10151-8R  
                           10151B-8R  
                           10151N-8R  
                           10151NB-8R

**Modifier:**  
**Engine Model:** IGSO-480-A1A6, -A1E6  
**Power:** 340 HP @ 2182 RPM  
**Placard/Restr:**  
**Notes:**

**Prop Diameter:** 93" TO 90"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 16.0 +/-0.2  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 87.0 +/-0.5  
**Cwt Angle:** Positive

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:** WOODWARD

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>             | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|--------------------------------|-----------------|----------------|--------------------------|
| BLADE            | 10151-8R           | BLADE UNIT, ALUMINUM           | 3               | Prop           |                          |
| BLADE            | 10151B-8R          | BLADE UNIT, ALUMINUM, 4H1188-3 | 3               | Prop           |                          |
| BLADE            | 10151N-8R          | PCP:BLADE UNIT, ALUMINUM       | 3               | Prop           |                          |
| BLADE            | 10151NB-8R         | PCP:BLADE UNIT, ALUM 4H1188-3  | 3               | Prop           |                          |
| SPINNER          | 836-20SPR          | SPINNER ASSEMBLY               | 1               | Prop           |                          |
| SPINNER          | 836-21SPR          | SPINNER ASSEMBLY               | 1               | Prop           |                          |
| DE-ICER          | 4H1188-3           | DE-ICE BOOT                    | 1               | Blade          | Supersedes 7931-4E1188-3 |
| MTG BOLT/STUD    | A-63B              | PCP: NUT, SHAFT, 20 SPLINE     | 1               | Prop           |                          |
| MTG BOLT/STUD    | A-63-B             | NUT,SHAFT,20 SPLINE            | 1               | Prop           |                          |

# HARTZELL

## APPLICATION GUIDE

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BEECH

IDS No.: 252      Rev.: 1      D      Date: 01/07/2011

**Model:** A65, 70  
**Trade Name:** QUEEN AIR  
**Aircraft T.C./STC:** 3A20  
**Propeller Model:** HC-B3Z20-2A  
**Propeller T.C.:** P907  
**Blade Model(s):** 10151-8R  
                           10151B-8R  
                           10151N-8R  
                           10151NB-8R  
**Prop Diameter:** 93" TO 90"

**Modifier:**  
**Engine Model:** IGSO-480-A1E6, -A1B6  
**Power:** 340 HP @ 2182 RPM  
**Placard/Restr:**  
**Notes:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 16.0 +/-0.2  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 87.0 +/-0.5  
**Cwt Angle:** Positive

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:** WOODWARD

**Hartzell Approved Items:**

| <u>Item Type</u>            | <u>Item Number</u> | <u>Description</u>             | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|-----------------------------|--------------------|--------------------------------|-----------------|----------------|--------------------------|
| PROPELLER                   | B3300100           | HC-B3Z20-2A/10151B-8R          | 2               | A/C            |                          |
| BLADE                       | 10151-8R           | BLADE UNIT, ALUMINUM           | 3               | Prop           |                          |
| BLADE                       | 10151B-8R          | BLADE UNIT, ALUMINUM, 4H1188-3 | 3               | Prop           |                          |
| BLADE                       | 10151N-8R          | PCP:BLADE UNIT, ALUMINUM       | 3               | Prop           |                          |
| BLADE                       | 10151NB-8R         | PCP:BLADE UNIT, ALUM 4H1188-3  | 3               | Prop           |                          |
| SPINNER                     | 836-20SPR          | SPINNER ASSEMBLY               | 1               | Prop           |                          |
| SPINNER                     | 836-21SPR          | SPINNER ASSEMBLY               | 1               | Prop           |                          |
| COUNTERWEIGHT SLUG A-619-2  |                    | SLUG, COUNTERWEIGHT            | 2               | Blade          |                          |
| COUNTERWEIGHT SLUG B-3840-8 |                    | SCREW, 10-32, FILLISTER HEAD   | 2               | Blade          |                          |
| DE-ICER                     | 4H1188-3           | DE-ICE BOOT                    | 1               | Blade          | Supersedes 7931-4E1188-3 |
| MTG BOLT/STUD               | A-63B              | PCP: NUT, SHAFT, 20 SPLINE     | 1               | Prop           |                          |
| MTG BOLT/STUD               | A-63-B             | NUT,SHAFT,20 SPLINE            | 1               | Prop           |                          |

# HARTZELL

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**BEECH**

**Model:** 65, A65, 65-(B)80, 65-A80-8800, 70  
**Trade Name:** QUEEN AIR  
**Aircraft T.C./STC:** STC-SA444SW  
**Propeller Model:** HC-A3MVK-2A  
**Propeller T.C.:** P6EA  
**Blade Model(s):** MV8433N-2R  
 MV8433N-4Q  
 MV8433N-4R  
**Prop Diameter:** 82.625 to 80.625

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 14.0 +-0.1  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number    | Description                   | Quantity | Qty Per | Comments                 |
|---------------|----------------|-------------------------------|----------|---------|--------------------------|
| PROPELLER     | A3K10080       | HC-A3MVK-2A/MV8433N-2R        | 2        | A/C     |                          |
| PROPELLER     | A3K10080KD     | HC-A3MVK-2A/MV8433N-2R        | 2        | A/C     |                          |
| BLADE         | MV8433N-2R     | PCP:BLADE UNIT, ALUMINUM      | 3        | Prop    |                          |
| BLADE         | MV8433N-4Q     | PCP:BLADE UNIT, ALUMINUM      | 3        | Prop    |                          |
| BLADE         | MV8433N-4R     | PCP:BLADE UNIT, ALUMINUM      | 3        | Prop    |                          |
| SPINNER       | C-2513-2       | SPINNER ASSEMBLY              | 1        | Prop    |                          |
| SPINNER       | C-2513-2P      | SPINNER ASSEMBLY              | 1        | Prop    |                          |
| MTG BOLT/STUD | A-1328         | BOLT,MOUNTING,1/2-20,12 POINT | 3        | Prop    |                          |
| MTG BOLT/STUD | A-1333-3       | BOLT,MOUNTING,1/2-20,HEX HEAD | 3        | Prop    |                          |
| OVERHAUL KIT  | HC-A3MVK-2A-OH | O/H KIT                       | 1        | Prop    | For aftermarket use only |

**IDS No.:** 254      **Rev.:** 3      **IC Date:** 07/07/2015

**Modifier:** EXCALIBER AIRCRAFT  
**Engine Model:** IO-720-A1A, -A1B  
**Power:** 400 HP @ 2650 RPM  
**Placard/Restr:**  
**Notes:** STC Holder: Bemidji Aviation Services, Inc.

**Startlock Angle:** NA  
**Feather/High Angle:** 82.0 +-1.0  
**Cwt Angle:** Positive

**Non-HPI Governor:**

**BEECH**

**Model:** 65, A65, 65-(B)80, 65-A80-8800, 70  
**Trade Name:** QUEEN AIR  
**Aircraft T.C./STC:** STC-SA444SW  
**Propeller Model:** HC-A3XK-2A  
**Propeller T.C.:** P6EA  
**Blade Model(s):**  
**Prop Diameter:** 82.6" TO 82" ???80.625?

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 14.0 +-0.1  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number | Description                   | Quantity | Qty Per | Comments |
|---------------|-------------|-------------------------------|----------|---------|----------|
| SPINNER       | C-2531-P    | DOMES, 2 - BLADE              | 1        | Prop    |          |
| MTG BOLT/STUD | A-1328      | BOLT,MOUNTING,1/2-20,12 POINT | 3        | Prop    |          |
| MTG BOLT/STUD | A-1333-3    | BOLT,MOUNTING,1/2-20,HEX HEAD | 3        | Prop    |          |

**IDS No.:** 2312      **Rev.:** -      **DM Date:** 11/23/2003

**Modifier:** EXCALIBER AIRCRAFT  
**Engine Model:** IO-720-A1A, -A1B  
**Power:** 400 HP @ 2650 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 82.0 +-1.0  
**Cwt Angle:** Positive

**Non-HPI Governor:**

# HARTZELL

## APPLICATION GUIDE

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**BEECH**

**Model:** 65, A65, 65-(B)80, 65-A80-8800, 70  
**Trade Name:** QUEEN AIR  
**Aircraft T.C./STC:** STC-SA444SW  
**Propeller Model:** HC-A3VK-2A  
**Propeller T.C.:** P6EA  
**Blade Model(s):** V8433-2R  
V8433-4R  
V8433N-2R  
V8433N-4Q  
V8433N-4R

**Prop Diameter:** 82.6" TO 82" ???80.625?

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 14.0 +-0.1  
**Stud Protrusion**

**IDS No.:** 2109      **Rev.:** -      **DM Date:** 11/20/2003

**Modifier:** EXCALIBER AIRCRAFT  
**Engine Model:** IO-720-A1A, -A1B  
**Power:** 400 HP @ 2650 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 82.0 +-1.0  
**Cwt Angle:** Positive

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type     | Item Number | Description                   | Quantity | Qty Per | Comments |
|---------------|-------------|-------------------------------|----------|---------|----------|
| BLADE         | V8433-2R    | BLADE                         | 3        | Prop    |          |
| BLADE         | V8433-4R    | BLADE                         | 3        | Prop    |          |
| BLADE         | V8433N-2R   | BLADE                         | 3        | Prop    |          |
| BLADE         | V8433N-4Q   | BLADE                         | 3        | Prop    |          |
| BLADE         | V8433N-4R   | BLADE                         | 3        | Prop    |          |
| SPINNER       | C-2531-P    | DOME, 2 - BLADE               | 1        | Prop    |          |
| MTG BOLT/STUD | A-1328      | BOLT,MOUNTING,1/2-20,12 POINT | 3        | Prop    |          |
| MTG BOLT/STUD | A-1333-3    | BOLT,MOUNTING,1/2-20,HEX HEAD | 3        | Prop    |          |

**BEECH**

**Model:** 65, A65, A65-8200, 70  
**Trade Name:** QUEEN AIR  
**Aircraft T.C./STC:** STC-SA2365WE  
**Propeller Model:** HC-83X20-2, HC-A3X20-2  
**Propeller T.C.:** P6EA  
**Blade Model(s):** 9333C-3  
**Prop Diameter:** 90.6"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:**  
**Stud Protrusion**

**IDS No.:** 2110      **Rev.:** -      **DM Date:** 11/20/2003

**Modifier:** BERNARD GALLAGHER  
**Engine Model:**  
**Power:** HP @ RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:**  
**Feather/High Angle:**  
**Cwt Angle:** Positive

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type                    | Item Number | Description                | Quantity | Qty Per | Comments |
|------------------------------|-------------|----------------------------|----------|---------|----------|
| BLADE                        | 9333C-3     | BLADE                      | 3        | Prop    |          |
| COUNTERWEIGHT SLUG A-890     |             | PCP:SLUG, COUNTERWEIGHT    | 1        | Blade   |          |
| COUNTERWEIGHT SLUG B-3384-7H |             | BOLT, 1/4-28, HEX HEAD     | 2        | Blade   |          |
| MTG BOLT/STUD                | A-63B       | PCP: NUT, SHAFT, 20 SPLINE | 1        | Prop    |          |
| MTG BOLT/STUD                | A-63-B      | NUT,SHAFT,20 SPLINE        | 1        | Prop    |          |



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**BEECH**

**Model:** 65, A65, A65-8200, 70  
**Trade Name:** QUEEN AIR  
**Aircraft T.C./STC:** STC-SA2365WE  
**Propeller Model:** HC-83V20-2, HC-A3V20-2  
**Propeller T.C.:** P6EA  
**Blade Model(s):** V9333C-3  
V9333N-3  
**Prop Diameter:** 90.6"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:**  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 2111      **Rev.:** -      **DM Date:** 11/20/2003

**Modifier:** BERNARD GALLAGHER  
**Engine Model:**  
**Power:** HP @ RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:**  
**Feather/High Angle:**  
**Cwt Angle:** Positive

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u>             | <u>Item Number</u> | <u>Description</u>         | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------------------|--------------------|----------------------------|-----------------|----------------|-----------------|
| BLADE                        | V9333C-3           | BLADE                      | 3               | Prop           |                 |
| BLADE                        | V9333N-3           | BLADE                      | 3               | Prop           |                 |
| COUNTERWEIGHT SLUG A-890     |                    | PCP:SLUG, COUNTERWEIGHT    | 1               | Blade          |                 |
| COUNTERWEIGHT SLUG B-3384-7H |                    | BOLT, 1/4-28, HEX HEAD     | 2               | Blade          |                 |
| MTG BOLT/STUD                | A-63B              | PCP: NUT, SHAFT, 20 SPLINE | 1               | Prop           |                 |
| MTG BOLT/STUD                | A-63-B             | NUT,SHAFT,20 SPLINE        | 1               | Prop           |                 |

**BEECH**

**Model:** 65, A65, A65-8200, 70  
**Trade Name:** QUEEN AIR  
**Aircraft T.C./STC:** STC-SA2365WE  
**Propeller Model:** HC-A3MV20-2  
**Propeller T.C.:** P6EA  
**Blade Model(s):** MV9333N-3  
**Prop Diameter:** 90.6"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** UNKNOWN  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 255      **Rev.:** 1      **D Date:** 01/07/2011

**Modifier:** BERNARD GALLAGHER  
**Engine Model:** UNKNOWN  
**Power:** HP @ RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:**  
**Feather/High Angle:** UNKNOWN  
**Cwt Angle:** Positive

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u>             | <u>Item Number</u> | <u>Description</u>         | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------------------|--------------------|----------------------------|-----------------|----------------|-----------------|
| BLADE                        | MV9333N-3          | PCP:BLADE UNIT, ALUMINUM   | 3               | Prop           |                 |
| COUNTERWEIGHT SLUG A-890     |                    | PCP:SLUG, COUNTERWEIGHT    | 1               | Blade          |                 |
| COUNTERWEIGHT SLUG B-3384-7H |                    | BOLT, 1/4-28, HEX HEAD     | 2               | Blade          |                 |
| MTG BOLT/STUD                | A-63B              | PCP: NUT, SHAFT, 20 SPLINE | 1               | Prop           |                 |
| MTG BOLT/STUD                | A-63-B             | NUT,SHAFT,20 SPLINE        | 1               | Prop           |                 |

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BEECH

IDS No.: 256 Rev.: 1 IC Date: 07/07/2015

**Model:** 76 (left side)  
**Trade Name:** DUCHESS  
**Aircraft T.C./STC:** A29CE  
**Propeller Model:** HC-M2YR-2CEUF  
**Propeller T.C.:** P43GL  
**Blade Model(s):** FC7666A  
**Prop Diameter:** 76.0" TO 74.0"

**Modifier:**  
**Engine Model:** O-360-A1G6D  
**Power:** 180 HP @ 2700 RPM  
**Placard/Restr:**

**Notes:** Set chamber pressure to 22 +-2 PSI at 70-100 Deg. F or 17 +-2 at 40-70 Deg. F (Ref. HC-SL-61-197)

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.1 +-0.1  
**Stud Protrusion**

**Startlock Angle:** 18.5 +-1.5  
**Feather/High Angle:** 81.0 +-1.0  
**Cwt Angle:**

### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:** WOODWARD

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>            | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|-------------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | M2R00060           | HC-M2YR-2CEUF/FC7666A/SM4     | 1               | A/C            |                          |
| BLADE            | FC7666A            | PCP:BLADE UNIT, B-3202H-9 CWT | 2               | Prop           |                          |
| SPINNER          | C-2285-3P          | SPINNER ASSEMBLY              | 1               | Prop           |                          |
| SPINNER          | D-4826             | SPINNER ASSEMBLY              | 1               | Prop           |                          |
| SPIN MTG KIT     | A-2476-4           | SPINNER - MTG KIT             | 1               | Prop           |                          |
| COUNTERWEIGHT    | B-3202H-9          | PCP:COUNTERWEIGHT             | 1               | Blade          | Blade Component          |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20        | 6               | Prop           |                          |
| OVERHAUL KIT     | HC-M2YR-2CEUF      | O/H KIT                       | 1               | Prop           | For aftermarket use only |

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BEECH

**Model:** 76 (right side)  
**Trade Name:** DUCHESS  
**Aircraft T.C./STC:** A29CE  
**Propeller Model:** HC-M2YR-2CLEUF  
**Propeller T.C.:** P43GL  
**Blade Model(s):** FJC7666A  
**Prop Diameter:** 76.0" TO 74.0"

**IDS No.:** 257      **Rev.:** 1      **IC Date:** 07/07/2015

**Modifier:**  
**Engine Model:** LO-360-A1G6D  
**Power:** 180 HP @ 2700 RPM  
**Placard/Restr:**

**Notes:** Set chamber pressure to 22 +-2 PSI at 70-100 Deg. F or 17 +-2 at 40-70 Deg. F (Ref. HC-SL-61-197)

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.1 +-0.1  
**Stud Protrusion**

**Startlock Angle:** 18.5 +-1.5  
**Feather/High Angle:** 81.0 +-1.0  
**Cwt Angle:**

### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:** WOODWARD

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>          | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|-----------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | M2R00080           | HC-M2YR-2CLEUF/FJC7666A/SM4 | 1               | A/C            |                          |
| BLADE            | FJC7666A           | PCP:BLADE UNIT, ALUMINUM    | 2               | Prop           |                          |
| SPINNER          | C-2285-3LP         | SPINNER ASSEMBLY            | 1               | Prop           |                          |
| SPINNER          | D-4826LP           | SPINNER ASSEMBLY            | 1               | Prop           |                          |
| SPIN MTG KIT     | A-2476-4           | SPINNER - MTG KIT           | 1               | Prop           |                          |
| COUNTERWEIGHT    | B-3202H-9L         | PCP:COUNTERWEIGHT           | 1               | Blade          | Blade Component          |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20      | 6               | Prop           |                          |
| OVERHAUL KIT     | HC-M2YR-2CLEUF     | O/H KIT                     | 1               | Prop           | For aftermarket use only |

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BEECH

IDS No.: 253      Rev.: 1      D      Date: 01/07/2011

**Model:** 65-80, 65-A80, 65-B80, 65-88

**Trade Name:** QUEEN AIR

**Aircraft T.C./STC:** 3A20

**Propeller Model:** HC-B3Z30-2B

**Propeller T.C.:** P-907

**Blade Model(s):** 10151-8  
10151-8R  
10151B-8  
10151N-8  
10151N-8R  
10151NB-8  
L10151N-8

**Prop Diameter:** 93.5" TO 90"

**Prop Setup:**

**Ref. Radius:** 30

**Reverse Angle:** NA

**Low Pitch Angle:** 18.25 +-0.25

**Stud Protrusion**

**Modifier:**

**Engine Model:** IGSO-540-A1A, -A1D

**Power:** 380 HP @ 2182 RPM

**Placard/Restr:**

**Notes:**

**Startlock Angle:** NA

**Feather/High Angle:** 87.0 +-0.5

**Cwt Angle:** Positive

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:** WOODWARD

**Hartzell Approved Items:**

| <u>Item Type</u>   | <u>Item Number</u> | <u>Description</u>           | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|--------------------|--------------------|------------------------------|-----------------|----------------|-----------------|
| BLADE              | 10151-8            | BLADE UNIT, ALUMINUM         | 3               | Prop           |                 |
| BLADE              | 10151-8R           | BLADE UNIT, ALUMINUM         | 3               | Prop           |                 |
| BLADE              | 10151B-8           | PCP:BLADE UNIT, ALUM, C-2131 | 3               | Prop           |                 |
| BLADE              | 10151N-8           | PCP:BLADE UNIT, ALUMINUM     | 3               | Prop           |                 |
| BLADE              | 10151N-8R          | PCP:BLADE UNIT, ALUMINUM     | 3               | Prop           |                 |
| BLADE              | 10151NB-8          | BLADE UNIT, ALUMINUM, C-2131 | 3               | Prop           |                 |
| BLADE              | L10151N-8          | PCP:BLADE UNIT, ALUMINUM     | 3               | Prop           |                 |
| SPINNER            | 836-31SPR          | SPINNER ASSEMBLY             | 1               | Prop           |                 |
| SPINNER            | 836-32SPR          | SPINNER ASSEMBLY             | 1               | Prop           |                 |
| COUNTERWEIGHT SLUG | A-619-2            | SLUG, COUNTERWEIGHT          | 2               | Blade          |                 |
| COUNTERWEIGHT SLUG | B-3840-8           | SCREW, 10-32, FILLISTER HEAD | 2               | Blade          |                 |
| DE-ICER            | C-2131             | BOOT, ANTI-ICING             | 1               | Blade          | Blade Component |
| MTG BOLT/STUD      | B-1894             | PCP: NUT,SHAFT, 30 SPLINE    | 1               | Prop           |                 |

# HARTZELL

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BEECH

IDS No.: 258 Rev.: 2 IC Date: 07/15/2015

**Model:** 65-90, 65-A90, C90, B90, E90, C90A

**Trade Name:** KING AIR

**Aircraft T.C./STC:** 3A20

**Propeller Model:** HC-B3TN-2(B)

**Propeller T.C.:** P15EA

**Blade Model(s):** T10173-8  
T10173B-8  
T10173N-8  
T10173NB-8

**Prop Diameter:** 93.5 TO 90 3/8(91.5:65-90)

**Prop Setup:**

**Ref. Radius:** 30

**Reverse Angle:** NA

**Low Pitch Angle:** 19.0

**Stud Protrusion**

**Modifier:**

**Engine Model:** PT6A-20, -28, -21

**Power:** 550 HP @ 2200 RPM

**Placard/Restr:**

**Notes:**

**Startlock Angle:** NA

**Feather/High Angle:** 87.0

**Cwt Angle:** Positive

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type          | Item Number     | Description                       | Quantity | Qty Per | Comments                       |
|--------------------|-----------------|-----------------------------------|----------|---------|--------------------------------|
| BLADE              | T10173-8        | BLADE                             | 3        | Prop    |                                |
| BLADE              | T10173B-8       | BLADE, 4E1188-5 BOOT              | 3        | Prop    |                                |
| BLADE              | T10173N-8       | PCP:BLADE UNIT, ALUM [1,1,1]      | 3        | Prop    |                                |
| BLADE              | T10173NB-8      | PCP:BLADE UNIT, ALUM, 4H1188-5    | 3        | Prop    |                                |
| SPINNER            | C-3006P         | IDS Item                          | 1        | Prop    |                                |
| SPINNER            | C-3065          | SPINNER ASSEMBLY                  | 1        | Prop    |                                |
| SP MT KIT DE-ICE   | A-2070-7        | SCREW, 1/4-28, BUTTON HEAD        | 12       | Prop    |                                |
| SP MT KIT DE-ICE   | B-3837-0432     | WASHER, CORROSION RESISTANT       | 12       | Prop    |                                |
| SP MT KIT DE-ICE   | B-7077-52       | BELLEVILLE SPRING WASHER          | 24       | Prop    |                                |
| COUNTERWEIGHT SLUG | A-619-3         | SLUG, COUNTERWEIGHT               | 1        | Blade   |                                |
| COUNTERWEIGHT SLUG | B-3840-10       | SCREW, 10-32, FILLISTER HEAD      | 2        | Blade   |                                |
| COUNTERWEIGHT SLUG | B-3840-2        | IDS Item                          | 2        | Blade   |                                |
| DE-ICER            | 4H1188-5        | DE-ICE BOOT                       | 1        | Blade   | Supersedes 7931-4E1188-5       |
| DE-ICE KIT PR      | 7931-65-100-1A  | DE-ICE KIT (ONE PROP)             | 1        | Prop    |                                |
| DE-ICE KIT PR      | 7931-65-100-1B1 | DE-ICE KIT (ONE PROP)             | 1        | Prop    |                                |
| DE-ICE KIT PR      | 7931-65-100-1B2 | DE-ICE KIT (ONE PROP)             | 1        | Prop    |                                |
| DE-ICE KIT PR      | 7931-65-100-1BM | DE-ICE KIT (LEFT PROP) SYNCHRO    | 1        | Prop    | SYNCH MASTER W/ 4E1555-3 S'RIN |
| DE-ICE KIT PR      | 7931-65-100-1BS | DE-ICE KIT (RIGHT PROP) SYNCHR    | 1        | Prop    | SYNCH SLAVE W/ 4E1555-2 S'RIN  |
| MTG BOLT/STUD      | B-3339          | BOLT, MOUNTING, 9/16-18, 12 POINT | 8        | Prop    |                                |
| OVERHAUL KIT       | HC-B3TN-2-OH    | O/H KIT                           | 1        | Prop    | For aftermarket use only       |

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**BEECH**

IDS No.: 259      Rev.: 1      D      Date: 01/07/2011

**Model:** 65-90, -A90, -A90-1, -A90-2, -A90-4

**Trade Name:** KING AIR

**Aircraft T.C./STC:** 3A20

**Propeller Model:** HC-B3TN-3B, -3M

**Propeller T.C.:** P15EA

**Blade Model(s):** T10173-8  
T10173B-8  
T10173E-8  
T10173N-8  
T10173NB-8  
T10173NE-8

**Prop Diameter:** 93.5" TO 90 3/8"

**Prop Setup:**

**Ref. Radius:** 30

**Reverse Angle:** -11.0 +/-0.5

**Low Pitch Angle:** 20.2 +/-0.2

**Stud Protrusion**

**Modifier:**

**Engine Model:** PT6A-20, -21, -28, -34B

**Power:** 550 HP @ 2200 RPM

**Placard/Restr:**

**Notes:** Low Pitch Angle is approximate. Refer to Raytheon maintenance instructions for on-wing adjustment procedures.

**Startlock Angle:** NA

**Feather/High Angle:** 87.0 +/-0.5

**Cwt Angle:** Positive

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type                      | Item Number     | Description                       | Quantity | Qty Per | Comments                       |
|--------------------------------|-----------------|-----------------------------------|----------|---------|--------------------------------|
| BLADE                          | T10173-8        | BLADE                             | 3        | Prop    |                                |
| BLADE                          | T10173B-8       | BLADE, 4E1188-5 BOOT              | 3        | Prop    |                                |
| BLADE                          | T10173E-8       | BLADE, 4E1188-3 BOOT              | 3        | Prop    |                                |
| BLADE                          | T10173N-8       | PCP:BLADE UNIT, ALUM [1,1,1]      | 3        | Prop    |                                |
| BLADE                          | T10173NB-8      | PCP:BLADE UNIT, ALUM, 4H1188-5    | 3        | Prop    |                                |
| BLADE                          | T10173NE-8      | BLADE UNIT, ALUMINUM, 4E1188-3    | 3        | Prop    |                                |
| SPINNER                        | C-3006P         | IDS Item                          | 1        | Prop    |                                |
| SPINNER                        | C-3065          | SPINNER ASSEMBLY                  | 1        | Prop    |                                |
| SPIN MTG KIT                   | B-3384-4H       | BOLT, 1/4-28, HEX HEAD            | 12       | Prop    |                                |
| SPIN MTG KIT                   | B-3808-4        | NUT,HEX,SELF-LOCKING              | 12       | Prop    |                                |
| SPIN MTG KIT                   | B-3851-0432     | WASHER                            | 24       | Prop    |                                |
| SP MT KIT DE-ICE               | A-2070-7        | SCREW, 1/4-28, BUTTON HEAD        | 12       | Prop    |                                |
| SP MT KIT DE-ICE               | B-3808-4        | NUT,HEX,SELF-LOCKING              | 12       | Prop    |                                |
| SP MT KIT DE-ICE               | B-3837-0432     | WASHER, CORROSION RESISTANT       | 12       | Prop    |                                |
| SP MT KIT DE-ICE               | B-7077-52       | BELLEVILLE SPRING WASHER          | 24       | Prop    |                                |
| COUNTERWEIGHT SLUG A-3039      |                 | SLUG, COUNTERWEIGHT               | 1        | Blade   |                                |
| COUNTERWEIGHT SLUG A-890-8     |                 | PCP:SLUG, COUNTERWEIGHT           | 1        | Blade   |                                |
| COUNTERWEIGHT SLUG B-3384-18H  |                 | BOLT, 1/4-28, HEX HEAD            | 2        | Blade   |                                |
| COUNTERWEIGHT SLUG B-3851-0432 |                 | WASHER                            | 2        | Blade   | Optional                       |
| COUNTERWEIGHT SLUG B-3851-0463 |                 | WASHER                            | 2        | Blade   | Optional                       |
| DE-ICER                        | 4H1188-5        | DE-ICE BOOT                       | 1        | Blade   | Supersedes 7931-4E1188-5       |
| DE-ICER                        | 7931-4E1188-3   | PROP DE-ICER                      | 1        | Blade   | Blade Component                |
| DE-ICE KIT PR                  | 7931-65-100-1A  | DE-ICE KIT (ONE PROP)             | 1        | Prop    |                                |
| DE-ICE KIT PR                  | 7931-65-100-1B1 | DE-ICE KIT (ONE PROP)             | 1        | Prop    |                                |
| DE-ICE KIT PR                  | 7931-65-100-1B2 | DE-ICE KIT (ONE PROP)             | 1        | Prop    |                                |
| DE-ICE KIT PR                  | 7931-65-100-1BM | DE-ICE KIT (LEFT PROP) SYNCHRO    | 1        | Prop    | SYNCH MASTER W/ 4E1555-3 S'RIN |
| DE-ICE KIT PR                  | 7931-65-100-1BS | DE-ICE KIT (RIGHT PROP) SYNCHR    | 1        | Prop    | SYNCH SLAVE W/ 4E1555-2 S'RIN  |
| MTG BOLT/STUD                  | B-3339          | BOLT, MOUNTING, 9/16-18, 12 POINT | 8        | Prop    |                                |

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**BEECH**

IDS No.: 260      Rev.: 2      IC      Date: 07/15/2015

**Model:** B90  
**Trade Name:** KING AIR  
**Aircraft T.C./STC:** 3A20  
**Propeller Model:** HC-B3TN-3(B,M)  
**Propeller T.C.:** P15EA  
**Blade Model(s):** T10173-8  
 T10173B-8  
 T10173E-8  
 T10173K-8  
 T10173N-8  
 T10173NB-8  
 T10173NE-8

**Modifier:**  
**Engine Model:** PT6A-20  
**Power:** 550 HP @ 2200 RPM  
**Placard/Restr:**

**Notes:** Fit one A-3044 Carbon Block Assembly per customer request; Low Pitch Angle is approximate. Refer to Raytheon maintenance instructions for on-wing adjustment procedures.

**Prop Diameter:** 93.5" TO 90 3/8"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** -11.0 +/-0.5  
**Low Pitch Angle:** 20.2 +/-0.2  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 87.0 +/-0.5  
**Cwt Angle:** Positive

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type                      | Item Number     | Description                       | Quantity | Qty Per | Comments                       |
|--------------------------------|-----------------|-----------------------------------|----------|---------|--------------------------------|
| PROPELLER                      | B3N10181        | HC-B3TN-3B/T10173NB-8/DE-ICE      | 2        | A/C     |                                |
| PROPELLER                      | B3N10181KD      | HC-B3TN-3B/T10173NB-8/DE-ICE      | 2        | A/C     |                                |
| PROPELLER                      | B3N12160        | HC-B3TN-3M/T10173N-8              | 2        | A/C     |                                |
| PROPELLER                      | B3N12171        | HC-B3TN-3M/T10173NB-8             | 2        | A/C     |                                |
| BLADE                          | T10173-8        | BLADE                             | 3        | Prop    |                                |
| BLADE                          | T10173B-8       | BLADE, 4E1188-5 BOOT              | 3        | Prop    |                                |
| BLADE                          | T10173E-8       | BLADE, 4E1188-3 BOOT              | 3        | Prop    |                                |
| BLADE                          | T10173K-8       | BLADE, 4E2200-10 BOOT             | 3        | Prop    |                                |
| BLADE                          | T10173N-8       | PCP:BLADE UNIT, ALUM [1,1,1]      | 3        | Prop    |                                |
| BLADE                          | T10173NB-8      | PCP:BLADE UNIT, ALUM, 4H1188-5    | 3        | Prop    |                                |
| BLADE                          | T10173NE-8      | BLADE UNIT, ALUMINUM, 4E1188-3    | 3        | Prop    |                                |
| SPINNER                        | C-3065-13P      | SPINNER ASSEMBLY                  | 1        | Prop    |                                |
| SPIN MTG KIT                   | B-3384-4H       | BOLT, 1/4-28, HEX HEAD            | 12       | Prop    |                                |
| SPIN MTG KIT                   | B-3808-4        | NUT,HEX,SELF-LOCKING              | 12       | Prop    |                                |
| SPIN MTG KIT                   | B-3851-0432     | WASHER                            | 24       | Prop    |                                |
| SP MT KIT DE-ICE               | A-2070-7        | SCREW, 1/4-28, BUTTON HEAD        | 12       | Prop    |                                |
| SP MT KIT DE-ICE               | B-3808-4        | NUT,HEX,SELF-LOCKING              | 12       | Prop    |                                |
| SP MT KIT DE-ICE               | B-3837-0432     | WASHER, CORROSION RESISTANT       | 12       | Prop    |                                |
| SP MT KIT DE-ICE               | B-7077-52       | BELLEVILLE SPRING WASHER          | 24       | Prop    |                                |
| COUNTERWEIGHT SLUG A-3039      |                 | SLUG, COUNTERWEIGHT               | 1        | Blade   |                                |
| COUNTERWEIGHT SLUG A-890-8     |                 | PCP:SLUG, COUNTERWEIGHT           | 1        | Blade   |                                |
| COUNTERWEIGHT SLUG B-3384-18H  |                 | BOLT, 1/4-28, HEX HEAD            | 2        | Blade   |                                |
| COUNTERWEIGHT SLUG B-3851-0432 |                 | WASHER                            | 2        | Blade   | Optional                       |
| COUNTERWEIGHT SLUG B-3851-0463 |                 | WASHER                            | 2        | Blade   | Optional                       |
| DE-ICER                        | 4H1188-5        | DE-ICE BOOT                       | 1        | Blade   | Supersedes 7931-4E1188-5       |
| DE-ICER                        | 7931-4E1188-3   | PROP DE-ICER                      | 1        | Blade   | Blade Component                |
| DE-ICE KIT PR                  | 7931-65-100-1A  | DE-ICE KIT (ONE PROP)             | 1        | Prop    | See A/C TCDS for applicability |
| DE-ICE KIT PR                  | 7931-65-100-1B1 | DE-ICE KIT (ONE PROP)             | 1        | Prop    | See A/C TCDS for applicability |
| DE-ICE KIT PR                  | 7931-65-100-1B2 | DE-ICE KIT (ONE PROP)             | 1        | Prop    | See A/C TCDS for applicability |
| DE-ICE KIT PR                  | 7931-65-100-1BM | DE-ICE KIT (LEFT PROP) SYNCHRO    | 1        | Prop    | Replaces 65-100-1B2            |
| DE-ICE KIT PR                  | 7931-65-100-1BS | DE-ICE KIT (RIGHT PROP) SYNCHR    | 1        | Prop    | Replaces 65-100-1B2            |
| MTG BOLT/STUD                  | B-3339          | BOLT, MOUNTING, 9/16-18, 12 POINT | 8        | Prop    |                                |
| MISC ACCES                     | A-3044          | BLOCK, BETA FEEDBACK- ASSEMBLY    | 1        | Prop    |                                |
| OVERHAUL KIT                   | HC-B3TN-3M-OH   | O/H KIT                           | 1        | Prop    | For aftermarket use only       |

# HARTZELL

## APPLICATION GUIDE

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BEECH

IDS No.: 261      Rev.: 1      D      Date: 01/07/2011

**Model:** H90  
**Trade Name:** KING AIR  
**Aircraft T.C./STC:** 3A20  
**Propeller Model:** HC-B3TN-3B  
**Propeller T.C.:** P15EA  
**Blade Model(s):** T10173B-8  
    T10173NB-8  
**Prop Diameter:** 93.5" TO 90.375"

**Modifier:**  
**Engine Model:** PT6A-34B  
**Power:** 550 HP @ 2200 RPM  
**Placard/Restr:**

**Notes:** Low Pitch Angle is approximate. Refer to Raytheon maintenance instructions for on-wing adjustment procedures.

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** -11.0 +/-0.5  
**Low Pitch Angle:** 20.2 +/-0.2  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 87.0 +/-0.5  
**Cwt Angle:** Positive

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u>               | <u>Item Number</u> | <u>Description</u>                | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|--------------------------------|--------------------|-----------------------------------|-----------------|----------------|--------------------------|
| BLADE                          | T10173B-8          | BLADE, 4E1188-5 BOOT              | 3               | Prop           |                          |
| BLADE                          | T10173NB-8         | PCP:BLADE UNIT, ALUM, 4H1188-5    | 3               | Prop           |                          |
| SPINNER                        | C-3065             | SPINNER ASSEMBLY                  | 1               | Prop           |                          |
| COUNTERWEIGHT SLUG A-3039      |                    | SLUG, COUNTERWEIGHT               | 1               | Blade          |                          |
| COUNTERWEIGHT SLUG A-890-8     |                    | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          |                          |
| COUNTERWEIGHT SLUG B-3384-18H  |                    | BOLT, 1/4-28, HEX HEAD            | 2               | Blade          |                          |
| COUNTERWEIGHT SLUG B-3851-0432 |                    | WASHER                            | 2               | Blade          | Optional                 |
| COUNTERWEIGHT SLUG B-3851-0463 |                    | WASHER                            | 2               | Blade          | Optional                 |
| DE-ICER                        | 4H1188-5           | DE-ICE BOOT                       | 1               | Blade          | Supersedes 7931-4E1188-5 |
| MTG BOLT/STUD                  | B-3339             | BOLT, MOUNTING, 9/16-18, 12 POINT | 8               | Prop           |                          |



# HARTZELL

## APPLICATION GUIDE

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**BEECH**

IDS No.: 2623      Rev.: 4      IC Date: 03/15/2022

**Model:** C90  
**Trade Name:** KING AIR  
**Aircraft T.C./STC:** 3A20  
**Propeller Model:** HC-B3TN-3(B,M)  
**Propeller T.C.:** P15EA  
**Blade Model(s):** T10173NB-8  
                           T10173NE-8  
                           T10173NK-8  
                           T10173NK-8\*2

**Modifier:**  
**Engine Model:** PT6A-20, -21, -6/20, -20A  
**Power:** 550 HP @ 2200 RPM  
**Placard/Restr:**  
**Notes:** Fit one A-3044 Carbon Block Assembly per customer request. Low pitch angle is approximate. Refer to Raytheon maintenance instructions for on-wing adjustment procedures.

**Prop Diameter:** 93.5" TO 90 3/8"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** -11.0 +/-0.5  
**Low Pitch Angle:** 20.2 +/-0.2  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 87.0 +/-0.5  
**Cwt Angle:** Positive

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type                      | Item Number     | Description                       | Quantity | Qty Per | Comments   |
|--------------------------------|-----------------|-----------------------------------|----------|---------|--|
| #Error                         | B3N12185S       | HC-B3TN-3M/T10173NK-8*2/SPIN      | 2        | A/C     |  |
| #Error                         | B3N12185SKD     | HC-B3TN-3M/T10173NK-8*2/SPIN      | 2        | A/C     |  |
| PROPELLER                      | B3N10181        | HC-B3TN-3B/T10173NB-8/DE-ICE      | 2        | A/C     |  |
| PROPELLER                      | B3N10181KD      | HC-B3TN-3B/T10173NB-8/DE-ICE      | 2        | A/C     |  |
| PROPELLER                      | B3N12171        | HC-B3TN-3M/T10173NB-8             | 2        | A/C     |  |
| PROPELLER                      | B3N12181S       | HC-B3TN-3M/T10173NK-8/3065-13P    | 2        | A/C     |  |
| PROPELLER                      | B3N12182        | HC-B3TN-3M/T10173NK-8/BULK/DEI    | 2        | A/C     |  |
| PROPELLER                      | B3N12182KD      | HC-B3TN-3M/T10173NK-8/BULK/DEI    | 2        | A/C     | Prop, bulkhead, prop deice Kit knocked down for shipment |
| BLADE                          | T10173NB-8      | PCP:BLADE UNIT, ALUM, 4H1188-5    | 3        | Prop    |  |
| BLADE                          | T10173NE-8      | BLADE UNIT, ALUMINUM, 4E1188-3    | 3        | Prop    |  |
| BLADE                          | T10173NK-8      | PCP:BLADE UNIT, ALUM 4H2200-10    | 3        | Prop    |  |
| BLADE                          | T10173NK-8*2    | PCP: BLADE UNIT, ALUM 4H2200-10   | 3        | Prop    |  |
| SPINNER                        | C-3065-13P      | SPINNER ASSEMBLY                  | 1        | Prop    |  |
| SP MT KIT DE-ICE               | A-2070-10       | SCREW, 1/4-28, BUTTON HEAD        | 12       | Prop    | "K" De-Ice   |
| SP MT KIT DE-ICE               | A-2070-7        | SCREW, 1/4-28, BUTTON HEAD        | 12       | Prop    | "B" De-ice   |
| SP MT KIT DE-ICE               | B-3808-4        | NUT,HEX,SELF-LOCKING              | 12       | Prop    | "B" & "K" De-ice   |
| SP MT KIT DE-ICE               | B-3837-0432     | WASHER, CORROSION RESISTANT       | 12       | Prop    | "B" & "K" De-Ice   |
| SP MT KIT DE-ICE               | B-7077-52       | BELLEVILLE SPRING WASHER          | 24       | Prop    | "B" & "K" De-Ice   |
| COUNTERWEIGHT SLUG A-3039      |                 | SLUG, COUNTERWEIGHT               | 1        | Blade   |  |
| COUNTERWEIGHT SLUG A-890-8     |                 | PCP:SLUG, COUNTERWEIGHT           | 1        | Blade   |  |
| COUNTERWEIGHT SLUG B-3384-18H  |                 | BOLT, 1/4-28, HEX HEAD            | 2        | Blade   |  |
| COUNTERWEIGHT SLUG B-3851-0432 |                 | WASHER                            | 2        | Blade   | Optional   |
| COUNTERWEIGHT SLUG B-3851-0463 |                 | WASHER                            | 2        | Blade   | Optional   |
| DE-ICER                        | 4H1188-5        | DE-ICE BOOT                       | 1        | Blade   | Supersedes 7931-4E1188-5                                 |
| DE-ICER                        | 4H2200-10       | DE-ICE BOOT                       | 1        | Blade   | Supersedes 7931-4E2200-10                                |
| DE-ICER                        | 7931-4E1188-3   | PROP DE-ICER                      | 1        | Blade   | Blade Component  |
| DE-ICE KIT PR                  | 7931-65-100-1A  | DE-ICE KIT (ONE PROP)             | 1        | Prop    | See A/C TCDS for applicability                           |
| DE-ICE KIT PR                  | 7931-65-100-1B1 | DE-ICE KIT (ONE PROP)             | 1        | Prop    | See A/C TCDS for applicability                           |
| DE-ICE KIT PR                  | 7931-65-100-1B2 | DE-ICE KIT (ONE PROP)             | 1        | Prop    | See A/C TCDS for applicability                           |
| DE-ICE KIT PR                  | 7931-67-280-2   | DE-ICE KIT (ONE PROP)             | 1        | Prop    | For "K" de-icer  |
| MTG BOLT/STUD                  | B-3339          | BOLT, MOUNTING, 9/16-18, 12 POINT | 8        | Prop    |  |
| MISC ACCES                     | A-3044          | BLOCK, BETA FEEDBACK- ASSEMBLY    | 1        | Prop    |  |
| OVERHAUL KIT                   | HC-B3TN-3M-OH   | O/H KIT                           | 1        | Prop    | For aftermarket use only                                 |

# HARTZELL

## APPLICATION GUIDE 159

BEECH

IDS No.: 262 Rev.: 4 IC Date: 11/06/2020

**Model:** F90  
**Trade Name:** KING AIR  
**Aircraft T.C./STC:** A31CE  
**Propeller Model:** HC-B4TN-3A, -3B  
**Propeller T.C.:** P40EA

**Modifier:**  
**Engine Model:** PT6A-135, -135A  
**Power:** 750 HP @ 1900 RPM  
**Placard/Restr:** Avoid continuous ground operation below 1200 RPM.

**Blade Model(s):** T10173FB-10.5  
 T10173FK-10.5  
 T10173FN-10.5  
 T10173FNB-10.5  
 T10173FNK-10.5  
**Prop Diameter:** 92" NO CUT OFF

**Notes:** Low Pitch Angle is approximate. Refer to Raytheon maintenance instructions for on-wing adjustment procedures.

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** -8.5 +/-0.4  
**Low Pitch Angle:** 18.5 +/-0.1  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 87.5 +/-0.5  
**Cwt Angle:** Positive

### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| Item Type                     | Item Number    | Description                         | Quantity | Qty Per | Comments                     |
|-------------------------------|----------------|-------------------------------------|----------|---------|------------------------------|
| PROPELLER                     | B4N10057       | HC-B4TN-3A/T10173FNK-10.5/DEI       | 2        | A/C     |                              |
| PROPELLER                     | B4N10097       | HC-B4TN-3B/T10173FNB-10.5/DEI       | 2        | A/C     |                              |
| BLADE                         | T10173FB-10.5  | BLADE, 4E1188-5 BOOT                | 4        | Prop    |                              |
| BLADE                         | T10173FK-10.5  | BLADE, 4E2200-10 BOOT               | 4        | Prop    |                              |
| BLADE                         | T10173FN-10.5  | PCP:BLADE UNIT, ALUMINUM            | 4        | Prop    |                              |
| BLADE                         | T10173FNB-10.5 | PCP: BLADE UNIT, ALUMINUM, 4H1188-5 | 4        | Prop    |                              |
| BLADE                         | T10173FNK-10.5 | PCP: BLADE UNIT, 4H2200-10 BOOT     | 4        | Prop    |                              |
| SPINNER                       | C-3425-1P      | SPINNER ASSEMBLY                    | 1        | Prop    |                              |
| SPINNER                       | C-3425-2P      | SPINNER ASSEMBLY                    | 1        | Prop    |                              |
| SPINNER                       | C-3425-3P      | SPINNER ASSEMBLY                    | 1        | Prop    |                              |
| SPINNER                       | C-3425-P       | SPINNER ASSEMBLY                    | 1        | Prop    |                              |
| COUNTERWEIGHT SLUG A-3039     |                | SLUG, COUNTERWEIGHT                 | 1        | Blade   |                              |
| COUNTERWEIGHT SLUG A-890-13   |                | PCP:SLUG, COUNTERWEIGHT             | 1        | Blade   |                              |
| COUNTERWEIGHT SLUG B-3384-18H |                | BOLT, 1/4-28, HEX HEAD              | 2        | Blade   |                              |
| DE-ICER                       | 4H1188-5       | DE-ICE BOOT                         | 1        | Blade   | Supersedes 7931-4E1188-5     |
| DE-ICER                       | 4H2200-10      | DE-ICE BOOT                         | 1        | Blade   | Supersedes 7931-4E2200-10    |
| DE-ICE KIT PR                 | 7931-67-250-2  | DE-ICE KIT                          | 1        | Prop    | Hardware kit for "K" system  |
| DE-ICE KIT PR                 | 7931-77-900-1A | DE-ICE KIT (ONE PROP)               | 1        | Prop    | De-icers only for "B" system |
| MTG BOLT/STUD                 | B-3339         | BOLT, MOUNTING, 9/16-18, 12 POINT   | 8        | Prop    |                              |

# HARTZELL

## APPLICATION GUIDE

159

BEECH

IDS No.: 2622 Rev.: 3 IC Date: 07/15/2015

**Model:** C90A  
**Trade Name:** KING AIR  
**Aircraft T.C./STC:** 3A20  
**Propeller Model:** HC-B3TN-3(B,M)  
**Propeller T.C.:** P15EA  
**Blade Model(s):** T10173K-8  
 T10173NK-8  
**Prop Diameter:** 93.5" TO 90 3/8"

**Modifier:**  
**Engine Model:** PT6A-21  
**Power:** 550 HP @ 2200 RPM  
**Placard/Restr:**  
**Notes:** Fit one A-3044 Carbon Block Assembly per customer request. Low pitch angle is approximate. Refer to Raytheon maintenance instructions for on-wing adjustment procedures.

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** -11.0 +-0.5  
**Low Pitch Angle:** 20.2 +-0.2  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 87.0 +-0.5  
**Cwt Angle:** Positive

### Non-HPI Items:

Non-HPI Spinner:

Non-HPI Governor:

### Hartzell Approved Items:

| Item Type                      | Item Number   | Description                       | Quantity | Qty Per | Comments   |
|--------------------------------|---------------|-----------------------------------|----------|---------|--|
| PROPELLER                      | B3N12181S     | HC-B3TN-3M/T10173NK-8/3065-13P    | 2        | A/C     |  |
| PROPELLER                      | B3N12182      | HC-B3TN-3M/T10173NK-8/BULK/DEI    | 2        | A/C     |  |
| PROPELLER                      | B3N12182KD    | HC-B3TN-3M/T10173NK-8/BULK/DEI    | 2        | A/C     | Prop, bulkhead, prop deice Kit knocked down for shipment |
| BLADE                          | T10173K-8     | BLADE, 4E2200-10 BOOT             | 3        | Prop    |  |
| BLADE                          | T10173NK-8    | PCP:BLADE UNIT, ALUM 4H2200-10    | 3        | Prop    |  |
| SPINNER                        | C-3065-13P    | SPINNER ASSEMBLY                  | 1        | Prop    |  |
| SP MT KIT DE-ICE               | A-2070-10     | SCREW, 1/4-28, BUTTON HEAD        | 12       | Prop    |  |
| SP MT KIT DE-ICE               | B-3808-4      | NUT,HEX,SELF-LOCKING              | 12       | Prop    |  |
| SP MT KIT DE-ICE               | B-3837-0432   | WASHER, CORROSION RESISTANT       | 12       | Prop    |  |
| SP MT KIT DE-ICE               | B-7077-52     | BELLEVILLE SPRING WASHER          | 24       | Prop    |  |
| COUNTERWEIGHT SLUG A-3039      |               | SLUG, COUNTERWEIGHT               | 1        | Blade   |  |
| COUNTERWEIGHT SLUG A-890-8     |               | PCP:SLUG, COUNTERWEIGHT           | 1        | Blade   |  |
| COUNTERWEIGHT SLUG B-3384-18H  |               | BOLT, 1/4-28, HEX HEAD            | 2        | Blade   |  |
| COUNTERWEIGHT SLUG B-3851-0432 |               | WASHER                            | 2        | Blade   | Optional   |
| COUNTERWEIGHT SLUG B-3851-0463 |               | WASHER                            | 2        | Blade   | Optional   |
| DE-ICER                        | 4H2200-10     | DE-ICE BOOT                       | 1        | Blade   | Supersedes 7931-4E2200-10                                |
| DE-ICE KIT PR                  | 7931-67-280-2 | DE-ICE KIT (ONE PROP)             | 1        | Prop    | For "K" de-icer  |
| MTG BOLT/STUD                  | B-3339        | BOLT, MOUNTING, 9/16-18, 12 POINT | 8        | Prop    |  |
| MISC ACCES                     | A-3044        | BLOCK, BETA FEEDBACK- ASSEMBLY    | 1        | Prop    |  |
| OVERHAUL KIT                   | HC-B3TN-3M-OH | O/H KIT                           | 1        | Prop    | For aftermarket use only                                 |

# HARTZELL

## APPLICATION GUIDE 159

**BEECH**

IDS No.: 2624      Rev.: 3      IC Date: 07/15/2015

**Model:** E90  
**Trade Name:** KING AIR  
**Aircraft T.C./STC:** 3A20  
**Propeller Model:** HC-B3TN-3(B,M)  
**Propeller T.C.:** P15EA  
**Blade Model(s):** T10173NB-8  
                           T10173NE-8  
                           T10173NK-8  
**Prop Diameter:** 93.5" TO 90 3/8"

**Modifier:**  
**Engine Model:** PT6A-28  
**Power:** 550 HP @ 2200 RPM  
**Placard/Restr:**  
**Notes:** ("K" de-ice applies to certain aircraft serial nos.; see aircraft TCDS for applicability). Fit one A-3044 Carbon Block Assembly per customer request; Low pitch angle is approximate. Refer to Raytheon maintenance instructions for on-wing adjustment procedures.

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** -11.0 +/-0.5  
**Low Pitch Angle:** 20.2 +/-0.2  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 87.0 +/-0.5  
**Cwt Angle:** Positive

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type                      | Item Number     | Description                       | Quantity | Qty Per | Comments   |
|--------------------------------|-----------------|-----------------------------------|----------|---------|--|
| PROPELLER                      | B3N10180        | HC-B3TN-3B/T10173NB-8/DE-ICE      | 2        | A/C     |  |
| PROPELLER                      | B3N10181        | HC-B3TN-3B/T10173NB-8/DE-ICE      | 2        | A/C     |  |
| PROPELLER                      | B3N10181KD      | HC-B3TN-3B/T10173NB-8/DE-ICE      | 2        | A/C     |  |
| PROPELLER                      | B3N12171        | HC-B3TN-3M/T10173NB-8             | 2        | A/C     |  |
| PROPELLER                      | B3N12181S       | HC-B3TN-3M/T10173NK-8/3065-13P    | 2        | A/C     |  |
| PROPELLER                      | B3N12182        | HC-B3TN-3M/T10173NK-8/BULK/DEI    | 2        | A/C     |  |
| PROPELLER                      | B3N12182KD      | HC-B3TN-3M/T10173NK-8/BULK/DEI    | 2        | A/C     | Prop, bulkhead, prop deice Kit knocked down for shipment |
| BLADE                          | T10173NB-8      | PCP:BLADE UNIT, ALUM, 4H1188-5    | 3        | Prop    |  |
| BLADE                          | T10173NE-8      | BLADE UNIT, ALUMINUM, 4E1188-3    | 3        | Prop    |  |
| BLADE                          | T10173NK-8      | PCP:BLADE UNIT, ALUM 4H2200-10    | 3        | Prop    |  |
| SPINNER                        | C-3065-13P      | SPINNER ASSEMBLY                  | 1        | Prop    |  |
| SP MT KIT DE-ICE               | A-2070-10       | SCREW, 1/4-28, BUTTON HEAD        | 12       | Prop    | "K" De-Ice   |
| SP MT KIT DE-ICE               | A-2070-7        | SCREW, 1/4-28, BUTTON HEAD        | 12       | Prop    | "B" De-ice   |
| SP MT KIT DE-ICE               | B-3808-4        | NUT,HEX,SELF-LOCKING              | 12       | Prop    | "B" & "K" De-ice   |
| SP MT KIT DE-ICE               | B-3837-0432     | WASHER, CORROSION RESISTANT       | 12       | Prop    | "B" & "K" De-Ice   |
| SP MT KIT DE-ICE               | B-7077-52       | BELLEVILLE SPRING WASHER          | 24       | Prop    | "B" & "K" De-Ice   |
| COUNTERWEIGHT SLUG A-3039      |                 | SLUG, COUNTERWEIGHT               | 1        | Blade   |  |
| COUNTERWEIGHT SLUG A-890-8     |                 | PCP:SLUG, COUNTERWEIGHT           | 1        | Blade   |  |
| COUNTERWEIGHT SLUG B-3384-18H  |                 | BOLT, 1/4-28, HEX HEAD            | 2        | Blade   |  |
| COUNTERWEIGHT SLUG B-3851-0432 |                 | WASHER                            | 2        | Blade   | Optional   |
| COUNTERWEIGHT SLUG B-3851-0463 |                 | WASHER                            | 2        | Blade   | Optional   |
| DE-ICER                        | 4H1188-5        | DE-ICE BOOT                       | 1        | Blade   | Supersedes 7931-4E1188-5                                 |
| DE-ICER                        | 4H2200-10       | DE-ICE BOOT                       | 1        | Blade   | Supersedes 7931-4E2200-10                                |
| DE-ICER                        | 7931-4E1188-3   | PROP DE-ICER                      | 1        | Blade   | Blade Component "E"                                      |
| DE-ICER                        | 7931-4E2200-10  | PROP DE-ICER THERMAL EFFICIENT    | 1        | Blade   | Blade Component "K"                                      |
| DE-ICE KIT PR                  | 7931-65-100-1A  | DE-ICE KIT (ONE PROP)             | 1        | Prop    | -5 Boots Only, term clmps&scrw                           |
| DE-ICE KIT PR                  | 7931-65-100-1B1 | DE-ICE KIT (ONE PROP)             | 1        | Prop    | Hdwe Only,no boots,non-sync sr                           |
| DE-ICE KIT PR                  | 7931-67-280-2   | DE-ICE KIT (ONE PROP)             | 1        | Prop    | For "K" de-icer  |
| MTG BOLT/STUD                  | B-3339          | BOLT, MOUNTING, 9/16-18, 12 POINT | 8        | Prop    |  |
| MISC ACCES                     | A-3044          | BLOCK, BETA FEEDBACK- ASSEMBLY    | 1        | Prop    |  |
| OVERHAUL KIT                   | HC-B3TN-3M-OH   | O/H KIT                           | 1        | Prop    | For aftermarket use only                                 |

# HARTZELL

## APPLICATION GUIDE 159

**BEECH**

**Model:** 65-A90  
**Trade Name:** KING AIR  
**Aircraft T.C./STC:** STC-SA3593NM  
**Propeller Model:** HC-D4N-3C  
**Propeller T.C.:** P10NE

**IDS No.:** 263      **Rev.:** 6      **IC Date:** 02/01/2016  
**Modifier:** RAISBECK  
**Engine Model:** PT6A-20, -28  
**Power:** 500 HP @ 2200 RPM  
**Placard/Restr:** Stabilized ground operation prohibited below 1100 RPM, except with propeller feathered; operation at or below 400 RPM is permissible.

**Blade Model(s):** D9290K  
**Prop Diameter:** 93.0" TO 92.0"

**Notes:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** -9.0 +-0.5  
**Low Pitch Angle:** 20.1 +-0.1  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 84.5 +-0.5  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type     | Item Number   | Description                    | Quantity | Qty Per | Comments                              |
|---------------|---------------|--------------------------------|----------|---------|---------------------------------------|
| PROPELLER     | D4N00146      | HC-D4N-3C/D9290K/BULKHEAD/DEIC | 2        | A/C     |                                       |
| PROPELLER     | D4N00146KD    | HC-D4N-3C/D9290K/BULKHEAD/DEIC | 2        | A/C     |                                       |
| PROPELLER     | D4N00148      | HC-D4N-3C/D9290K/BULKHEAD/DEIC | 2        | A/C     | w/ dyn bal & univ sync holes          |
| PROPELLER     | D4N00148KD    | HC-D4N-3C/D9290K/BULKHEAD/DEIC | 2        | A/C     | w/ dyn bal & univ sync holes          |
| PROPELLER     | D4N00148S     | HC-D4N-3C/D9290K/D-630-7P      | 2        | A/C     |                                       |
| PROPELLER     | D4N00148SKD   | HC-D4N-3C/D9290K/D-630-7P      | 2        | A/C     |                                       |
| BLADE         | D9290K        | PCP:BLADE UNIT, ALUM 4H2271-12 | 4        | Prop    |                                       |
| SPINNER       | D-630-7       | SPINNER ASSEMBLY               | 1        | Prop    | w/ dyn bal & univ sync holes          |
| SPINNER       | D-630-7P      | SPINNER ASSEMBLY               | 1        | Prop    | w/ dyn bal & univ sync holes          |
| SPINNER       | D-630-P       | SPINNER ASSEMBLY               | 1        | Prop    |                                       |
| SPIN MTG KIT  | A-2070-7      | SCREW, 1/4-28, BUTTON HEAD     | 8        | Prop    |                                       |
| COUNTERWEIGHT | C-472-1       | PCP:COUNTERWEIGHT              | 1        | Blade   |                                       |
| DE-ICER       | 4H2271-12     | DE-ICE BOOT                    | 1        | Blade   | Supersedes 4H2271-10 & 7931-4E2271-10 |
| DE-ICE KIT PR | 106298        | DE-ICE KIT (ONE PROP)          | 1        | Prop    | Supersedes 7931-67-450-1              |
| DE-ICE KIT PR | 7931-67-450-1 | DE-ICE KIT (ONE PROP)          | 1        | Prop    | Superseded by 106298                  |
| MTG BOLT/STUD | B-3339-1      | BOLT,MOUNTING,9/16-18,12 POINT | 8        | Prop    |                                       |
| MISC ACCES    | A-3044        | BLOCK, BETA FEEDBACK- ASSEMBLY | 1        | Prop    |                                       |
| OVERHAUL KIT  | 106298-OH     | DE-ICE O/H KIT, 4H2271-12 BOOT | 1        | Prop    | For aftermarket use only              |
| OVERHAUL KIT  | HC-D4N-3C-OH  | O/H KIT                        | 1        | Prop    | For aftermarket use only              |

# HARTZELL

## APPLICATION GUIDE

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BEECH

IDS No.: 181      Rev.: 5      IC      Date: 02/01/2016

**Model:** B90  
**Trade Name:** KING AIR  
**Aircraft T.C./STC:** STC-SA3593NM  
**Propeller Model:** HC-D4N-3C  
**Propeller T.C.:** P10NE

**Modifier:** RAISBECK  
**Engine Model:** PT6A-20, PT6A-28, PT6A-34  
**Power:** 550 HP @ 2200 RPM  
**Placard/Restr:** Stabilized ground operation prohibited below 1100 RPM, except with propeller feathered; operation at or below 400 RPM is permissible.

**Blade Model(s):** D9290K  
**Prop Diameter:** 93.0" TO 92.0"

**Notes:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** -9.0 +-0.5  
**Low Pitch Angle:** 20.1 +- 0.1  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 84.5 +- 0.5  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>             | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>                       |
|------------------|--------------------|--------------------------------|-----------------|----------------|---------------------------------------|
| BLADE            | D9290K             | PCP:BLADE UNIT, ALUM 4H2271-12 | 4               | Prop           |                                       |
| SPINNER          | D-630-7            | SPINNER ASSEMBLY               | 1               | Prop           | w/ dyn bal & univ sync holes          |
| SPINNER          | D-630-7P           | SPINNER ASSEMBLY               | 1               | Prop           | w/ dyn bal & univ sync holes          |
| SPINNER          | D-630-P            | SPINNER ASSEMBLY               | 1               | Prop           |                                       |
| COUNTERWEIGHT    | C-472-1            | PCP:COUNTERWEIGHT              | 1               | Blade          |                                       |
| DE-ICER          | 4H2271-12          | DE-ICE BOOT                    | 1               | Blade          | Supersedes 4H2271-10 & 7931-4E2271-10 |
| DE-ICE KIT PR    | 106298             | DE-ICE KIT (ONE PROP)          | 1               | Prop           | Supersedes 7931-67-450-1              |
| DE-ICE KIT PR    | 7931-67-450-1      | DE-ICE KIT (ONE PROP)          | 1               | Prop           | Superseded by 106298                  |
| MTG BOLT/STUD    | B-3339-1           | BOLT,MOUNTING,9/16-18,12 POINT | 8               | Prop           |                                       |
| OVERHAUL KIT     | 106298-OH          | DE-ICE O/H KIT, 4H2271-12 BOOT | 1               | Prop           | For aftermarket use only              |

# HARTZELL

## APPLICATION GUIDE

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**BEECH**

**Model:** E90  
**Trade Name:** KING AIR  
**Aircraft T.C./STC:** STC-SA3593NM  
**Propeller Model:** HC-D4N-3C  
**Propeller T.C.:** P10NE

**IDS No.:** 1165      **Rev.:** 6      **IC Date:** 02/01/2016  
**Modifier:** RAISBECK  
**Engine Model:** PT6A-28, PT6A -34  
**Power:** 550 HP @ 2200 RPM  
**Placard/Restr:** Stabilized ground operation prohibited below 1100 RPM, except with propeller feathered; operation at or below 400 RPM is permissible. The aircraft gross weight limit is 6400 lbs. minimum.

**Blade Model(s):** D9290K  
**Prop Diameter:** 93.0" TO 92.0"

**Notes:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** -9.0 +-0.5  
**Low Pitch Angle:** 20.1 +-0.1  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 84.5 +-0.5  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>             | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>                       |
|------------------|--------------------|--------------------------------|-----------------|----------------|---------------------------------------|
| PROPELLER        | D4N00148           | HC-D4N-3C/D9290K/BULKHEAD/DEIC | 0               |                |                                       |
| PROPELLER        | D4N00148KD         | HC-D4N-3C/D9290K/BULKHEAD/DEIC | 0               |                |                                       |
| PROPELLER        | D4N00148S          | HC-D4N-3C/D9290K/D-630-7P      | 0               |                |                                       |
| PROPELLER        | D4N00148SKD        | HC-D4N-3C/D9290K/D-630-7P      | 0               |                |                                       |
| BLADE            | D9290K             | PCP:BLADE UNIT, ALUM 4H2271-12 | 4               | Prop           |                                       |
| SPINNER          | D-630-7            | SPINNER ASSEMBLY               | 1               | Prop           | w/ dyn bal & univ sync holes          |
| SPINNER          | D-630-7P           | SPINNER ASSEMBLY               | 1               | Prop           | w/ dyn bal & univ sync holes          |
| SPINNER          | D-630-P            | SPINNER ASSEMBLY               | 1               | Prop           |                                       |
| COUNTERWEIGHT    | C-472-1            | PCP:COUNTERWEIGHT              | 1               | Blade          |                                       |
| DE-ICER          | 4H2271-12          | DE-ICE BOOT                    | 1               | Blade          | Supersedes 4H2271-10 & 7931-4E2271-10 |
| DE-ICE KIT PR    | 106298             | DE-ICE KIT (ONE PROP)          | 1               | Prop           | Supersedes 7931-67-450-1              |
| DE-ICE KIT PR    | 7931-67-450-1      | DE-ICE KIT (ONE PROP)          | 1               | Prop           | Superseded by 106298                  |
| MTG BOLT/STUD    | B-3339-1           | BOLT,MOUNTING,9/16-18,12 POINT | 8               | Prop           |                                       |
| MISC ACCES       | A-3044             | BLOCK, BETA FEEDBACK- ASSEMBLY | 1               | Prop           |                                       |
| OVERHAUL KIT     | 106298-OH          | DE-ICE O/H KIT, 4H2271-12 BOOT | 1               | Prop           | For aftermarket use only              |
| OVERHAUL KIT     | HC-D4N-3C-OH       | O/H KIT                        | 1               | Prop           | For aftermarket use only              |

# HARTZELL

## APPLICATION GUIDE

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BEECH

IDS No.: 264 Rev.: 6 IC Date: 02/01/2016

Model: F90  
Trade Name: KING AIR  
Aircraft T.C./STC: STC-SA4131NM  
Propeller Model: HC-D4N-3C  
Propeller T.C.: P10NE  
Blade Model(s): D9290S  
D9290SK  
Prop Diameter: 93" TO 92"

Modifier: RAISBECK  
Engine Model: PT6A-135, -135A  
Power: 750 HP @ 1900 RPM  
Placard/Restr:  
Notes:

### Prop Setup:

Ref. Radius: 30  
Reverse Angle: -9.0 +-0.5  
Low Pitch Angle: 20.0 +-0.1  
Stud Protrusion

Startlock Angle: NA  
Feather/High Angle: 84.5 +-0.5  
Cwt Angle:

### Non-HPI Items:

Non-HPI Spinner:

Non-HPI Governor:

### Hartzell Approved Items:

| Item Type     | Item Number   | Description                    | Quantity | Qty Per | Comments                              |
|---------------|---------------|--------------------------------|----------|---------|---------------------------------------|
| PROPELLER     | D4N00149S     | HC-D4N-3C/D9290SK/D-630-7P     | 2        | A/C     |                                       |
| PROPELLER     | D4N00149SKD   | HC-D4N-3C/D9290SK/D-630-7P     | 2        | A/C     |                                       |
| PROPELLER     | D4N00191S     | HC-D4N-3C/D9290SK/D-630-P      | 2        | A/C     |                                       |
| PROPELLER     | D4N00191SKD   | HC-D4N-3C/D9290SK/D-630-P      | 2        | A/C     |                                       |
| BLADE         | D9290S        | PCP:BLADE UNIT, ALUMINUM       | 4        | Prop    |                                       |
| BLADE         | D9290SK       | PCP:BLADE UNIT, ALUMINUM       | 4        | Prop    |                                       |
| SPINNER       | D-630-7       | SPINNER ASSEMBLY               | 1        | Prop    | w/ dyn bal & univ sync holes          |
| SPINNER       | D-630-7P      | SPINNER ASSEMBLY               | 1        | Prop    | w/ dyn bal & univ sync holes          |
| SPINNER       | D-630-P       | SPINNER ASSEMBLY               | 1        | Prop    |                                       |
| SPIN MTG KIT  | A-2070-7      | SCREW, 1/4-28, BUTTON HEAD     | 8        | Prop    |                                       |
| COUNTERWEIGHT | C-472-1       | PCP:COUNTERWEIGHT              | 1        | Blade   |                                       |
| DE-ICER       | 4H2271-12     | DE-ICE BOOT                    | 1        | Blade   | Supersedes 4H2271-10 & 7931-4E2271-10 |
| DE-ICE KIT PR | 106298        | DE-ICE KIT (ONE PROP)          | 1        | Prop    | Supersedes 7931-67-450-1              |
| DE-ICE KIT PR | 7931-67-450-1 | DE-ICE KIT (ONE PROP)          | 1        | Prop    | Superseded by 106298                  |
| MTG BOLT/STUD | B-3339-1      | BOLT,MOUNTING,9/16-18,12 POINT | 8        | Prop    |                                       |
| MISC ACCES    | A-3044        | BLOCK, BETA FEEDBACK- ASSEMBLY | 1        | Prop    |                                       |
| OVERHAUL KIT  | 106298-OH     | DE-ICE O/H KIT, 4H2271-12 BOOT | 1        | Prop    | For aftermarket use only              |
| OVERHAUL KIT  | HC-D4N-3C-OH  | O/H KIT                        | 1        | Prop    | For aftermarket use only              |



# HARTZELL

## APPLICATION GUIDE

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BEECH

IDS No.: 359      Rev.: 5      IC      Date: 02/01/2016

**Model:** C90  
**Trade Name:** KING AIR  
**Aircraft T.C./STC:** STC-SA3593NM  
**Propeller Model:** HC-D4N-3C  
**Propeller T.C.:** P10NE

**Modifier:** RAISBECK  
**Engine Model:** PT6A-20, -20A, -21, -28, -34, -35, -6/20  
**Power:** 550 HP @ 2200 RPM  
**Placard/Restr:** Stabilized ground operation prohibited below 1100 RPM, except with propeller feathered; operation at or below 400 RPM is permissible.

**Blade Model(s):** D9290K  
**Prop Diameter:** 93.0" TO 92.0"

**Notes:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** -9.0 +-0.5  
**Low Pitch Angle:** 20.1 +-0.1  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 84.5 +-0.5  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>             | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>                       |
|------------------|--------------------|--------------------------------|-----------------|----------------|---------------------------------------|
| BLADE            | D9290K             | PCP:BLADE UNIT, ALUM 4H2271-12 | 4               | Prop           |                                       |
| SPINNER          | D-630-7            | SPINNER ASSEMBLY               | 1               | Prop           | w/ dyn bal & univ sync holes          |
| SPINNER          | D-630-7P           | SPINNER ASSEMBLY               | 1               | Prop           | w/ dyn bal & univ sync holes          |
| SPINNER          | D-630-P            | SPINNER ASSEMBLY               | 1               | Prop           |                                       |
| COUNTERWEIGHT    | C-472-1            | PCP:COUNTERWEIGHT              | 1               | Blade          |                                       |
| DE-ICER          | 4H2271-12          | DE-ICE BOOT                    | 1               | Blade          | Supersedes 4H2271-10 & 7931-4E2271-10 |
| DE-ICE KIT PR    | 106298             | DE-ICE KIT (ONE PROP)          | 1               | Prop           | Supersedes 7931-67-450-1              |
| DE-ICE KIT PR    | 7931-67-450-1      | DE-ICE KIT (ONE PROP)          | 1               | Prop           | Superseded by 106298                  |
| MTG BOLT/STUD    | B-3339-1           | BOLT,MOUNTING,9/16-18,12 POINT | 8               | Prop           |                                       |
| OVERHAUL KIT     | 106298-OH          | DE-ICE O/H KIT, 4H2271-12 BOOT | 1               | Prop           | For aftermarket use only              |

# HARTZELL

## APPLICATION GUIDE 159

**BEECH**

IDS No.: 3700      Rev.: -      IC      Date: 05/28/2019

**Model:** C90GT, C90GTi  
**Trade Name:** KING AIR  
**Aircraft T.C./STC:** STC-SA3593NM  
**Propeller Model:** HC-D4N-3C  
**Propeller T.C.:** P10NE

**Modifier:** RAISBECK  
**Engine Model:** PT6A-135A  
**Power:** 550 HP @ 1900 RPM  
**Placard/Restr:** Stabilized ground operation prohibited below 1100 RPM, except with propeller feathered; operation at or below 400 RPM is permissible.

**Blade Model(s):** D9290K  
**Prop Diameter:** 93.0" TO 92.0"

**Notes:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** -9.0 +-0.5  
**Low Pitch Angle:** 20.1 +-0.1  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 84.5 +-0.5  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>             | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>                       |
|------------------|--------------------|--------------------------------|-----------------|----------------|---------------------------------------|
| PROPELLER        | D4N00148           | HC-D4N-3C/D9290K/BULKHEAD/DEIC | 1               | Prop           |                                       |
| PROPELLER        | D4N00148KD         | HC-D4N-3C/D9290K/BULKHEAD/DEIC | 1               | Prop           |                                       |
| PROPELLER        | D4N00148S          | HC-D4N-3C/D9290K/D-630-7P      | 1               | Prop           |                                       |
| PROPELLER        | D4N00148SKD        | HC-D4N-3C/D9290K/D-630-7P      | 1               | Prop           |                                       |
| BLADE            | D9290K             | PCP:BLADE UNIT, ALUM 4H2271-12 | 4               | Prop           |                                       |
| SPINNER          | D-630-7            | SPINNER ASSEMBLY               | 1               | Prop           | w/ dyn bal & univ sync holes          |
| SPINNER          | D-630-7P           | SPINNER ASSEMBLY               | 1               | Prop           | w/ dyn bal & univ sync holes          |
| SPINNER          | D-630-P            | SPINNER ASSEMBLY               | 1               | Prop           |                                       |
| SP MT KIT DE-ICE | A-2070-7           | SCREW, 1/4-28, BUTTON HEAD     | 8               | Prop           |                                       |
| COUNTERWEIGHT    | C-472-1            | PCP:COUNTERWEIGHT              | 1               | Blade          |                                       |
| DE-ICER          | 4H2271-12          | DE-ICE BOOT                    | 1               | Blade          | Supersedes 4H2271-10 & 7931-4E2271-10 |
| DE-ICE KIT PR    | 106298             | DE-ICE KIT (ONE PROP)          | 1               | Prop           | Supersedes 7931-67-450-1              |
| DE-ICE KIT PR    | 7931-67-450-1      | DE-ICE KIT (ONE PROP)          | 1               | Prop           | Superseded by 106298                  |
| MTG BOLT/STUD    | B-3339-1           | BOLT,MOUNTING,9/16-18,12 POINT | 8               | Prop           |                                       |
| OVERHAUL KIT     | 106298-OH          | DE-ICE O/H KIT, 4H2271-12 BOOT | 1               | Prop           | For aftermarket use only              |

# HARTZELL

## APPLICATION GUIDE

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BEECH

IDS No.: 1166 Rev.: 5 IC Date: 02/01/2016

Model: C90A  
 Trade Name: KING AIR  
 Aircraft T.C./STC: STC-SA3593NM  
 Propeller Model: HC-D4N-3C  
 Propeller T.C.: P10NE

Modifier: RAISBECK  
 Engine Model: PT6A-21, -35  
 Power: 550 HP @ 2200 RPM  
 Placard/Restr: Stabilized ground operation prohibited below 1100 RPM, except with propeller feathered; operation at or below 400 RPM is permissible.

Blade Model(s): D9290K  
 Prop Diameter: 93.0" TO 92.0"

Notes: PT6A-35 engine installed per STC SA 02238AT

### Prop Setup:

Ref. Radius: 30  
 Reverse Angle: -9.0 +-0.5  
 Low Pitch Angle: 20.1 +-0.1  
 Stud Protrusion

Startlock Angle: NA  
 Feather/High Angle: 84.5 +-0.5  
 Cwt Angle:

### Non-HPI Items:

Non-HPI Spinner:

Non-HPI Governor:

### Hartzell Approved Items:

| Item Type     | Item Number   | Description                    | Quantity | Qty Per | Comments                              |
|---------------|---------------|--------------------------------|----------|---------|---------------------------------------|
| BLADE         | D9290K        | PCP:BLADE UNIT, ALUM 4H2271-12 | 4        | Prop    |                                       |
| SPINNER       | D-630-7       | SPINNER ASSEMBLY               | 1        | Prop    | w/ dyn bal & univ sync holes          |
| SPINNER       | D-630-7P      | SPINNER ASSEMBLY               | 1        | Prop    | w/ dyn bal & univ sync holes          |
| SPINNER       | D-630-P       | SPINNER ASSEMBLY               | 1        | Prop    |                                       |
| COUNTERWEIGHT | C-472-1       | PCP:COUNTERWEIGHT              | 1        | Blade   |                                       |
| DE-ICER       | 4H2271-12     | DE-ICE BOOT                    | 1        | Blade   | Supersedes 4H2271-10 & 7931-4E2271-10 |
| DE-ICE KIT PR | 106298        | DE-ICE KIT (ONE PROP)          | 1        | Prop    | Supersedes 7931-67-450-1              |
| DE-ICE KIT PR | 7931-67-450-1 | DE-ICE KIT (ONE PROP)          | 1        | Prop    | Superseded by 106298                  |
| MTG BOLT/STUD | B-3339-1      | BOLT,MOUNTING,9/16-18,12 POINT | 8        | Prop    |                                       |
| OVERHAUL KIT  | 106298-OH     | DE-ICE O/H KIT, 4H2271-12 BOOT | 1        | Prop    | For aftermarket use only              |

# HARTZELL

## APPLICATION GUIDE

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BEECH

IDS No.: 1533 Rev.: 3 IC Date: 08/14/2015

Model: C90A  
 Trade Name: KING AIR  
 Aircraft T.C./STC: STC-SA00966CH  
 Propeller Model: HC-E4N-3N  
 Propeller T.C.: P10NE

Modifier: HARTZELL PROPELLER  
 Engine Model: PT6A-21  
 Power: 550 HP @ 2200 RPM  
 Placard/Restr: "Stabilized ground operation is prohibited between 500 and 1070 RPM. The propeller may be operated feathered at or below 500 RPM."

Blade Model(s): D8990  
 D8990K  
 Prop Diameter: 90.0" to 89.0"

Notes: Installation limited to aircraft serial number LJ-1540 and after; For additional details see drawing D-6981

### Prop Setup:

Ref. Radius: 30  
 Reverse Angle: -10.0 +0.2  
 Low Pitch Angle: 20.9 +0.1  
 Stud Protrusion

Startlock Angle: NA  
 Feather/High Angle: 85.8 +0.5  
 Cwt Angle:

### Non-HPI Items:

Non-HPI Spinner:

Non-HPI Governor: WOODWARD

### Hartzell Approved Items:

| Item Type        | Item Number   | Description                     | Quantity | Qty Per | Comments                  |
|------------------|---------------|---------------------------------|----------|---------|---------------------------|
| PROPELLER        | E4N00131      | HC-E4N-3N/D8990K                | 2        | A/C     |                           |
| PROPELLER        | E4N00131-10   | HC-E4N-3N/D8990K/D-630-4P       | 2        | A/C     |                           |
| PROPELLER        | E4N00131-11   | HC-E4N-3N/D8990K/D-630-4P/DEICE | 2        | A/C     |                           |
| PROPELLER        | E4N00131KD    | HC-E4N-3N/D8990K                | 2        | A/C     |                           |
| PROPELLER        | E4N00131S     | HC-E4N-3N/D8990K/D-630-4P       | 2        | A/C     |                           |
| BLADE            | D8990         | PCP:BLADE UNIT, ALUMINUM        | 4        | Prop    |                           |
| BLADE            | D8990K        | PCP:BLADE UNIT, 4H2271-10       | 4        | Prop    |                           |
| SPINNER          | D-630-4P      | SPINNER ASSEMBLY                | 1        | Prop    |                           |
| SP MT KIT DE-ICE | A-2070-7      | SCREW, 1/4-28, BUTTON HEAD      | 8        | Prop    |                           |
| COUNTERWEIGHT    | C-472-3       | PCP:COUNTERWEIGHT               | 1        | Blade   |                           |
| DE-ICER          | 4H2271-10     | DE-ICE BOOT                     | 1        | Blade   | Supersedes 7931-4E2271-10 |
| DE-ICE KIT PR    | 106298        | DE-ICE KIT (ONE PROP)           | 1        | Prop    | Supersedes 7931-67-942-1  |
| DE-ICE KIT PR    | 7931-67-942-1 | DE-ICE KIT (ONE PROP)           | 1        | Prop    | Superseded by 106298      |
| DE-ICE KIT A/F   | 7931-67-942-2 | AIRFRAME DE-ICE KIT             | 1        | A/C     |                           |
| MTG BOLT/STUD    | B-3339-1      | BOLT,MOUNTING,9/16-18,12 POINT  | 8        | Prop    |                           |
| OVERHAUL KIT     | HC-E4N-3N-OH  | O/H KIT                         | 1        | Prop    | For aftermarket use only  |

# HARTZELL

## APPLICATION GUIDE 159

**BEECH**

**Model:** A90, B90, C90, C90A, C90B, E90  
**Trade Name:** KING AIR  
**Aircraft T.C./STC:** SA2740SW  
**Propeller Model:** HC-E4N-3N  
**Propeller T.C.:** P10NE

**IDS No.:** 2014      **Rev.:** 3      **IC Date:** 08/14/2015  
**Modifier:** BLACKHAWK MODIFICATIONS, INC.  
**Engine Model:** PT6A-135A  
**Power:** 550 HP @ 1900 RPM  
**Placard/Restr:** Stabilized ground operation is prohibited between 500 and 1070 RPM. The propeller may be operated feathered at or below 500 RPM.

**Blade Model(s):** D8990S  
D8990SK  
**Prop Diameter:** 90.0" TO 89.0"

**Notes:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** -10.0 +-0.5  
**Low Pitch Angle:** 20.1 +-0.1  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 85.8 +-0.5  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:** WOODWARD

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>             | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>   |
|------------------|--------------------|--------------------------------|-----------------|----------------|---|
| PROPELLER        | E4N00135S          | HC-E4N-3N/D8990SK/D-630-4P     | 2               | A/C            |   |
| BLADE            | D8990S             | PCP:BLADE UNIT, ALUMINUM       | 0               |                | De-Ice boot must be installed on blade for the prop to conform to the aircraft Type Certificate |
| BLADE            | D8990SK            | PCP:BLADE UNIT, ALUM,4H2271-12 | 4               | Prop           |   |
| SPINNER          | D-630-4P           | SPINNER ASSEMBLY               | 1               | Prop           |   |
| SP MT KIT DE-ICE | A-2070-7           | SCREW, 1/4-28, BUTTON HEAD     | 8               | Prop           |   |
| COUNTERWEIGHT    | C-472-3            | PCP:COUNTERWEIGHT              | 1               | Blade          |   |
| DE-ICER          | 4H2271-12          | DE-ICE BOOT                    | 1               | Blade          | Supersedes 7931-4E2271-12   |
| DE-ICE KIT PR    | 106298             | DE-ICE KIT (ONE PROP)          | 1               | Prop           | Supersedes 7931-5E2767-1  |
| DE-ICE KIT PR    | 7931-5E2767-1      | DE-ICE KIT (ONE PROP)          | 1               | Prop           | Superseded by 106298  |
| MTG BOLT/STUD    | B-3339-1           | BOLT,MOUNTING,9/16-18,12 POINT | 8               | Prop           |   |
| OVERHAUL KIT     | HC-E4N-3N-OH       | O/H KIT                        | 1               | Prop           | For aftermarket use only  |

# HARTZELL

## APPLICATION GUIDE

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BEECH

IDS No.: 2015 Rev.: 1 IC Date: 08/13/2015

Model: C90A  
 Trade Name: KING AIR  
 Aircraft T.C./STC: STC SA10219SC  
 Propeller Model: HC-E4W-3  
 Propeller T.C.: P10NE

Modifier: Bert A. Nelson  
 Engine Model: M601E-11S, -11AS  
 Power: 550 HP @ 2080 RPM  
 Placard/Restr: Stabilized ground operation is prohibited between 500 and 1070 RPM. The propeller may be operated feathered at or below 500 RPM.

Blade Model(s): D8990K\*1  
 Prop Diameter: 90

Notes: STC is for propeller only. Requires previous installation of Walter engine.

### Prop Setup:

Ref. Radius: 30  
 Reverse Angle: -10.0 +/-0.5  
 Low Pitch Angle: 20.9 +/-0.1  
 Stud Protrusion 1.710 +/-0.010

Startlock Angle: NA  
 Feather/High Angle: 86.0 +/-0.5  
 Cwt Angle:

### Non-HPI Items:

Non-HPI Spinner:

Non-HPI Governor: JILHOSTROJ

### Hartzell Approved Items:

| Item Type        | Item Number | Description                     | Quantity | Qty Per | Comments                  |
|------------------|-------------|---------------------------------|----------|---------|---------------------------|
| PROPELLER        | E4W00010S   | HC-E4W-3/D8990K[*1]/D-630-5P    | 2        | A/C     |                           |
| BLADE            | D8990K*1    | PCP:BLADE UNIT, 4H2271-12 BOOT  | 4        | Prop    |                           |
| SPINNER          | D-630-5P    | SPINNER ASSEMBLY                | 1        | Prop    |                           |
| SP MT KIT DE-ICE | A-2070-7    | SCREW, 1/4-28, BUTTON HEAD      | 8        | Prop    |                           |
| COUNTERWEIGHT    | C-472-3     | PCP:COUNTERWEIGHT               | 1        | Blade   |                           |
| DE-ICER          | 4H2271-12   | DE-ICE BOOT                     | 1        | Blade   | Supersedes 7931-4E2271-12 |
| DE-ICE KIT PR    | 106298      | DE-ICE KIT (ONE PROP)           | 1        | Prop    | Supersedes BN4PW3060-1    |
| DE-ICE KIT PR    | BN4PW3060-1 | DE-ICE KIT (ONE PROP)           | 1        | Prop    | Superseded by 106298      |
| MTG BOLT/STUD    | A-3254      | STUD, MOUNTING, 9/16-18         | 8        | Prop    |                           |
| MTG BOLT/STUD    | B-7458      | NUT, 9/16-18, HEX, SELF-LOCKING | 8        | Prop    |                           |
| MTG BOLT/STUD    | B-7624      | WASHER, MOUNTING, 9/16 "        | 8        | Prop    |                           |

# HARTZELL

## APPLICATION GUIDE 159

BEECH

IDS No.: 2600 Rev.: 8 IC Date: 06/07/2019

**Model:** C90GT  
**Trade Name:** KING AIR  
**Aircraft T.C./STC:** 3A20  
**Propeller Model:** HC-E4N-3N  
**Propeller T.C.:** P10NE

**Modifier:**  
**Engine Model:** PT6A-135A  
**Power:** 550 HP @ 1900 RPM  
**Placard/Restr:** Stabilized ground operation is prohibited between 500 and 1070 RPM. The propeller may be operated feathered at or below 500 RPM.

**Blade Model(s):** D8990S  
 D8990SK  
 D8990SK\*1  
 D8990SK\*2  
**Prop Diameter:** 90.0" TO 89.0"

**Notes:** Low Pitch Angle is approximate. Refer to Raytheon maintenance instructions for on-wing adjustment procedures.

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** -10.0 +/-0.5  
**Low Pitch Angle:** 19.8 +/-0.1  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 85.8 +/-0.5  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:** Woodward

**Hartzell Approved Items:**

| Item Type        | Item Number   | Description                    | Quantity | Qty Per | Comments  |
|------------------|---------------|--------------------------------|----------|---------|---|
| PROPELLER        | E4N00136      | HC-E4N-3N/D8990SK/BULK/DE-ICE  | 2        | A/C     | De-iced propeller less spinner dome   |
| PROPELLER        | E4N00136KD    | HC-E4N-3N/D8990SK/BULK/DE-ICE  | 2        | A/C     | De-iced propeller less spinner dome, knocked down   |
| PROPELLER        | E4N00136S     | HC-E4N-3N/D8990SK/D-630-4P     | 2        | A/C     | De-Iced propeller with complete spinner   |
| PROPELLER        | E4N00136SKD   | HC-E4N-3N/D8990SK/D-630-4P     | 2        | A/C     | De-Iced propeller with complete spinner, dis-assembled for shipment                             |
| PROPELLER        | E4N00138S     | HC-E4N-3N/D8990SK[*2]/D-630-4P | 2        | A/C     | De-Iced propeller with complete spinner   |
| BLADE            | D8990S        | PCP:BLADE UNIT, ALUMINUM       | 0        |         | De-Ice boot must be installed on blade for the prop to conform to the aircraft Type Certificate |
| BLADE            | D8990SK       | PCP:BLADE UNIT, ALUM,4H2271-12 | 4        | Prop    | Included with propellers E4N00136 and E4N00136S, supersedes D8990SK*1                           |
| BLADE            | D8990SK*1     | PCP:BLADE UNIT, ALUM,4H2271-10 | 4        | Prop    | Inactive for new production, superseded by D8990SK  |
| BLADE            | D8990SK*2     | PCP:BLADE,ALUM,4H2271-12[3,1,1 | 4        | Prop    | Included in propeller E4N00138S   |
| SPINNER          | D-630-4P      | SPINNER ASSEMBLY               | 1        | Prop    | Polished spinner  |
| SP MT KIT DE-ICE | A-2070-7      | SCREW, 1/4-28, BUTTON HEAD     | 8        | Prop    | Included with every prop on this IDS (in de-ice kit)  |
| COUNTERWEIGHT    | C-472-3       | PCP:COUNTERWEIGHT              | 1        | Blade   | Included with every prop on this IDS  |
| DE-ICER          | 4H2271-10     | DE-ICE BOOT                    | 1        | Blade   | Inactive for new production, superseded by 4H2271-12  |
| DE-ICER          | 4H2271-12     | DE-ICE BOOT                    | 1        | Blade   | Included with every prop on this IDS. Supersedes 4H2271-10                                      |
| DE-ICE KIT PR    | 106298        | DE-ICE KIT (ONE PROP)          | 1        | Prop    | Supersedes 7931-5E2797-1  |
| DE-ICE KIT PR    | 7931-5E2797-1 | DE-ICE KIT (ONE PROP)          | 1        | Prop    | Superseded by 106298  |
| MTG BOLT/STUD    | B-3339-1      | BOLT,MOUNTING,9/16-18,12 POINT | 8        | Prop    | Included with every prop on this IDS  |
| MISC ACCES       | A-3044        | BLOCK, BETA FEEDBACK- ASSEMBLY | 1        | Prop    | Included with every prop on this IDS  |
| OVERHAUL KIT     | HC-E4N-3N-OH  | O/H KIT                        | 1        | Prop    | For aftermarket use only  |

# HARTZELL

## APPLICATION GUIDE

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**BEECH**

IDS No.: 266      Rev.: 2      IC      Date: 07/06/2015

**Model:** 95, B95, B95A, D95A, E95  
**Trade Name:** TRAVEL AIR  
**Aircraft T.C./STC:** 3A16  
**Propeller Model:** HC-92ZK-2A,-2B; HC-92WK-2B  
**Propeller T.C.:** SEE NOTES  
**Blade Model(s):** 8447-12A

**Modifier:**  
**Engine Model:** O-360-A1A; IO-360-B1A, -B1B  
**Power:** 180 HP @ 2700 RPM  
**Placard/Restr:**

**Notes:** TC Number: P16EA, date: 4/3/64 for 92WK-2B; TC Number: P892, date: 7/22/55 for 92ZK-2A and date: 2/26/59 for 92ZK-2B.

- 8447-12R
- 8447A-12A
- 8447A-12R
- 8447AB-12A
- 8447AB-12R
- 8447AN-12A
- 8447AN-12R
- 8447ANB-12A
- 8447ANB-12R
- 8447B-12A
- 8447B-12R
- 8447N-12A
- 8447N-12R
- 8447NB-12A
- 8447NB-12R
- W8447-12A
- W8447-12R
- W8447A-12A
- W8447A-12R
- W8447AB-12A
- W8447AB-12R
- W8447AN-12A
- W8447AN-12R
- W8447ANB-12A
- W8447ANB-12R
- W8447B-12A
- W8447B-12R
- W8447N-12A
- W8447N-12R
- W8447NB-12A

**Prop Diameter:** 72.0" TO 70.0", -12A; 72.0" TO 71.0", -12R

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 14.0 +-0.2  
**Stud Protrusion**

**Startlock Angle:**  
**Feather/High Angle:** 84.0 +-0.5  
**Cwt Angle:** Positive

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:** WOODWARD

**Hartzell Approved Items:**

| Item Type | Item Number | Description           | Quantity | Qty Per | Comments |
|-----------|-------------|-----------------------|----------|---------|----------|
| PROPELLER | 92K00060    | HC-92WK-2B/W8447N-12A | 2        | A/C     |          |
| BLADE     | 8447-12A    | BLADE UNIT, ALUMINUM  | 2        | Prop    |          |
| BLADE     | 8447-12R    | BLADE                 | 2        | Prop    |          |
| BLADE     | 8447A-12A   | BLADE UNIT, ALUMINUM  | 2        | Prop    |          |
| BLADE     | 8447A-12R   | IDS Item              | 2        | Prop    |          |



|               |               |                                |   |       |                          |
|---------------|---------------|--------------------------------|---|-------|--------------------------|
| BLADE         | 8447AB-12A    | IDS ITEM, BLADE, C-2131-3 BOOT | 2 | Prop  | REPLACED BY 8447ANB-12A  |
| BLADE         | 8447AB-12R    | IDS ITEM, BLADE, C-2131-3 BOOT | 2 | Prop  | REPLACED BY 8447ANB-12R  |
| BLADE         | 8447AN-12A    | PCP:BLADE UNIT, ALUMINUM       | 2 | Prop  |                          |
| BLADE         | 8447AN-12R    | IDS Item                       | 2 | Prop  |                          |
| BLADE         | 8447ANB-12A   | IDS ITEM, BLADE, C-2131-3 BOOT | 2 | Prop  |                          |
| BLADE         | 8447ANB-12R   | IDS ITEM, BLADE, C-2131-3 BOOT | 2 | Prop  |                          |
| BLADE         | 8447B-12A     | IDS ITEM, BLADE, C-2131-3 BOOT | 2 | Prop  | REPLACED BY 8447NB-12A   |
| BLADE         | 8447B-12R     | IDS ITEM, BLADE, C-2131-3 BOOT | 2 | Prop  | REPLACED BY 8447NB-12R   |
| BLADE         | 8447N-12A     | PCP:BLADE UNIT, ALUMINUM       | 2 | Prop  |                          |
| BLADE         | 8447N-12R     | BLADE                          | 2 | Prop  |                          |
| BLADE         | 8447NB-12A    | IDS ITEM, BLADE, C-2131-3 BOOT | 2 | Prop  |                          |
| BLADE         | 8447NB-12R    | IDS ITEM, BLADE, C-2131-3 BOOT | 2 | Prop  |                          |
| BLADE         | W8447-12A     | BLADE UNIT, ALUMINUM           | 2 | Prop  | REPLACED BY W8447N-12A   |
| BLADE         | W8447-12R     | BLADE UNIT, ALUMINUM           | 2 | Prop  |                          |
| BLADE         | W8447A-12A    | BLADE UNIT, ALUMINUM           | 2 | Prop  |                          |
| BLADE         | W8447A-12R    | IDS ITEM, BLADE                | 2 | Prop  | REPLACED BY W8447AN-12R  |
| BLADE         | W8447AB-12A   | IDS ITEM, BLADE, C-2131-3 BOOT | 2 | Prop  | REPLACED BY W8447ANB-12A |
| BLADE         | W8447AB-12R   | IDS ITEM, BLADE, C-2131-3 BOOT | 2 | Prop  | REPLACED BY W8447ANB-12R |
| BLADE         | W8447AN-12A   | PCP:BLADE UNIT, ALUMINUM       | 2 | Prop  |                          |
| BLADE         | W8447AN-12R   | IDS ITEM, BLADE                | 2 | Prop  |                          |
| BLADE         | W8447ANB-12A  | IDS ITEM, BLADE, C-2131-3 BOOT | 2 | Prop  |                          |
| BLADE         | W8447ANB-12R  | IDS ITEM, BLADE, C-2131-3 BOOT | 2 | Prop  | REPLACED BY W8447ANB-12R |
| BLADE         | W8447B-12A    | IDS ITEM, BLADE, C-2131-3 BOOT | 2 | Prop  | REPLACED BY W8447NB-12A  |
| BLADE         | W8447B-12R    | BLADE UNIT, ALUMINUM           | 2 | Prop  |                          |
| BLADE         | W8447N-12A    | PCP:BLADE UNIT, ALUMINUM       | 2 | Prop  |                          |
| BLADE         | W8447N-12R    | PCP:BLADE UNIT, ALUMINUM       | 2 | Prop  |                          |
| BLADE         | W8447NB-12A   | IDS ITEM, BLADE, C-2131-3 BOOT | 2 | Prop  | REPLACED BY W8447NB-12A  |
| SPINNER       | 835-30        | SPINNER ASSEMBLY               | 1 | Prop  |                          |
| SPINNER       | 835-6         | IDS Item                       | 1 | Prop  | Superceded by 835-30     |
| DE-ICER       | C-2131-3      | BOOT, ANTI-ICING               | 1 | Blade | Blade Component          |
| MTG BOLT/STUD | A-1328        | BOLT,MOUNTING,1/2-20,12 POINT  | 4 | Prop  |                          |
| MTG BOLT/STUD | A-1333        | BOLT,MOUNTING,1/2-20,HEX HEAD  | 2 | Prop  | Primary                  |
| MTG BOLT/STUD | A-1333-3      | BOLT,MOUNTING,1/2-20,HEX HEAD  | 2 | Prop  | Secondary                |
| OVERHAUL KIT  | HC-92WK-2B-OH | O/H KIT                        | 1 | Prop  | For aftermarket use only |

# HARTZELL

## APPLICATION GUIDE

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BEECH

**Model:** 95, B95, B95A, D95A, E95

**Trade Name:** TRAVEL AIR

**Aircraft T.C./STC:** STC-SA00722CH

**Propeller Model:** HC-C2YK-2CUF

**Propeller T.C.:** P-920

**Blade Model(s):** FC7666C-4  
FC7666C-4\*1  
FC7666CB-4  
FC7666CB-4\*1

**Prop Diameter:** 72" NO CUT OFF

### Prop Setup:

**Ref. Radius:** 30

**Reverse Angle:** NA

**Low Pitch Angle:** 14.0 +- 0.2 (SEE NOTE)

**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 1203

**Rev.:** 3

**IC Date:** 09/21/2015

**Modifier:** HARTZELL PROPELLER

**Engine Model:** O-360-A1A

**Power:** 180 HP @ 2700 RPM

**Placard/Restr:** Avoid continuous operation between 2000 and 2350 RPM.

**Notes:** Check for balance weight/travel tube interference during assembly of props with alcohol de-ice; Minimal hub/fork clearance exists at low pitch.

**Startlock Angle:** 19.5 +-1.5

**Feather/High Angle:** 82.0 +-0.5

**Cwt Angle:**

**Non-HPI Governor:** WOODWARD

### Hartzell Approved Items:

| Item Type     | Item Number     | Description                  | Quantity | Qty Per | Comments                 |
|---------------|-----------------|------------------------------|----------|---------|--------------------------|
| PROPELLER     | C2K00487        | HC-C2YK-2CUF/FC7666C-4       | 2        | A/C     |                          |
| PROPELLER     | C2K00487STP     | C2K00487/836-29P/TWIN        | 1        | A/C     |                          |
| PROPELLER     | C2K00488        | HC-C2YK-2CUF/FC7666CB-4      | 2        | A/C     |                          |
| PROPELLER     | C2K00488STP     | C2K00488/836-29P/DE-ICE/TWIN | 1        | A/C     |                          |
| BLADE         | FC7666C-4       | PCP:BLADE UNIT, ALUMINUM     | 2        | Prop    |                          |
| BLADE         | FC7666C-4*1     | IDS ITEM [3,1,1,] B-3202H-4  | 2        | Prop    |                          |
| BLADE         | FC7666CB-4      | PCP:BLADE UNIT, ALUMINUM     | 2        | Prop    |                          |
| BLADE         | FC7666CB-4*1    | IDS ITEM [3,1,1] C-2131-6    | 2        | Prop    |                          |
| SPINNER       | 836-29          | SPINNER ASSEMBLY             | 1        | Prop    |                          |
| SPINNER       | 836-29P         | SPINNER ASSEMBLY             | 1        | Prop    |                          |
| COUNTERWEIGHT | B-3202H-4       | PCP:COUNTERWEIGHT            | 1        | Blade   | Blade Component          |
| DE-ICER       | C-2131-6        | BOOT, ANTI-ICING             | 1        | Blade   | Blade Component          |
| DE-ICE KIT PR | D-6774          | ANTI-ICE - INSTL KIT         | 0        |         |                          |
| MTG BOLT/STUD | A-2067          | STUD, MOUNTING, 1/2-20       | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-C2YK-2CUF-OH | O/H KIT                      | 1        | Prop    | For aftermarket use only |

# HARTZELL

## APPLICATION GUIDE

159

BEECH

IDS No.: 267 Rev.: 1 D Date: 01/07/2011

**Model:** 99, 99A, A99, A99A, B99

**Trade Name:** AIRLINER

**Aircraft T.C./STC:** A14CE

**Propeller Model:** HC-B3TN-3B

**Propeller T.C.:** P15EA

**Blade Model(s):** T10173-8  
T10173B-8  
T10173E-8  
T10173N-8  
T10173NB-8  
T10173NE-8

**Prop Diameter:** 93.5" TO 90 3/8"

**Prop Setup:**

**Ref. Radius:** 30

**Reverse Angle:** -11.0 +0.5

**Low Pitch Angle:** 20.2 +-0.1

**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Modifier:**

**Engine Model:** PT6A-20, -27, -28

**Power:** 680 HP @ 2200 RPM

**Placard/Restr:**

**Notes:** Low Pitch Angle is approximate. Refer to Raytheon maintenance instructions for on-wing adjustment procedures.

**Startlock Angle:** NA

**Feather/High Angle:** 87.0 +-0.5

**Cwt Angle:** Positive

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u>               | <u>Item Number</u> | <u>Description</u>                | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|--------------------------------|--------------------|-----------------------------------|-----------------|----------------|--------------------------|
| BLADE                          | T10173-8           | BLADE                             | 3               | Prop           |                          |
| BLADE                          | T10173B-8          | BLADE, 4E1188-5 BOOT              | 3               | Prop           |                          |
| BLADE                          | T10173E-8          | BLADE, 4E1188-3 BOOT              | 3               | Prop           |                          |
| BLADE                          | T10173N-8          | PCP:BLADE UNIT, ALUM [1,1,1]      | 3               | Prop           |                          |
| BLADE                          | T10173NB-8         | PCP:BLADE UNIT, ALUM, 4H1188-5    | 3               | Prop           |                          |
| BLADE                          | T10173NE-8         | BLADE UNIT, ALUMINUM, 4E1188-3    | 3               | Prop           |                          |
| SPINNER                        | C-3065-P           | SPINNER ASSEMBLY                  | 1               | Prop           |                          |
| COUNTERWEIGHT SLUG A-3039      |                    | SLUG, COUNTERWEIGHT               | 1               | Blade          |                          |
| COUNTERWEIGHT SLUG A-890-8     |                    | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          |                          |
| COUNTERWEIGHT SLUG B-3384-18H  |                    | BOLT, 1/4-28, HEX HEAD            | 2               | Blade          |                          |
| COUNTERWEIGHT SLUG B-3851-0432 |                    | WASHER                            | 2               | Blade          | Optional                 |
| COUNTERWEIGHT SLUG B-3851-0463 |                    | WASHER                            | 2               | Blade          | Optional                 |
| DE-ICER                        | 4H1188-5           | DE-ICE BOOT                       | 1               | Blade          | Supersedes 7931-4E1188-5 |
| MTG BOLT/STUD                  | B-3339             | BOLT, MOUNTING, 9/16-18, 12 POINT | 8               | Prop           |                          |

# HARTZELL

## APPLICATION GUIDE 159

**BEECH**

IDS No.: 268      Rev.: 2      IC      Date: 07/15/2015

**Model:** C99  
**Trade Name:** AIRLINER  
**Aircraft T.C./STC:** A14CE  
**Propeller Model:** HC-B3TN-3B, -3M  
**Propeller T.C.:** P15EA  
**Blade Model(s):** T10173K-8  
 T10173NK-8  
**Prop Diameter:** 93.5" TO 90 3/8"

**Modifier:**  
**Engine Model:** PT6A-36  
**Power:** 715 HP @ 2200 RPM  
**Placard/Restr:**

**Notes:** Low Pitch Angle is approximate. Refer to Raytheon maintenance instructions for on-wing adjustment procedures.

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** -11.0 +/-0.5  
**Low Pitch Angle:** 20.2 +/-0.1  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 87.0 +/-0.5  
**Cwt Angle:** Positive

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u>               | <u>Item Number</u> | <u>Description</u>                | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>                                |
|--------------------------------|--------------------|-----------------------------------|-----------------|----------------|--|
| PROPELLER                      | B3N10150           | HC-B3TN-3B/T10173NK-8             | 2               | A/C            |  |
| BLADE                          | T10173K-8          | BLADE, 4E2200-10 BOOT             | 3               | Prop           |  |
| BLADE                          | T10173NK-8         | PCP:BLADE UNIT, ALUM 4H2200-10    | 3               | Prop           |  |
| SPINNER                        | C-3065-P           | SPINNER ASSEMBLY                  | 1               | Prop           |  |
| SP MT KIT DE-ICE               | A-2070-10          | SCREW, 1/4-28, BUTTON HEAD        | 12              | Prop           |  |
| SP MT KIT DE-ICE               | B-3808-4           | NUT,HEX,SELF-LOCKING              | 12              | Prop           |  |
| SP MT KIT DE-ICE               | B-3837-0432        | WASHER, CORROSION RESISTANT       | 12              | Prop           |  |
| SP MT KIT DE-ICE               | B-7077-52          | BELLEVILLE SPRING WASHER          | 24              | Prop           |  |
| COUNTERWEIGHT SLUG A-3039      |                    | SLUG, COUNTERWEIGHT               | 1               | Blade          |  |
| COUNTERWEIGHT SLUG A-890-8     |                    | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          |  |
| COUNTERWEIGHT SLUG B-3384-18H  |                    | BOLT, 1/4-28, HEX HEAD            | 2               | Blade          |  |
| COUNTERWEIGHT SLUG B-3851-0432 |                    | WASHER                            | 2               | Blade          | Optional                                       |
| COUNTERWEIGHT SLUG B-3851-0463 |                    | WASHER                            | 2               | Blade          | Optional                                       |
| DE-ICER                        | 4H2200-10          | DE-ICE BOOT                       | 1               | Blade          | Supersedes 7931-4E2200-10                      |
| DE-ICE KIT PR                  | 7931-67-280-2      | DE-ICE KIT (ONE PROP)             | 1               | Prop           |  |
| MTG BOLT/STUD                  | B-3339             | BOLT, MOUNTING, 9/16-18, 12 POINT | 8               | Prop           |  |
| OVERHAUL KIT                   | HC-B3TN-3B-OH      | O/H KIT                           | 1               | Prop           | For aftermarket use only(ALSO REPLACES A-2741) |

# HARTZELL

## APPLICATION GUIDE

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**BEECH**

IDS No.: 269      Rev.: 2      IC      Date: 07/15/2015

**Model:** 100  
**Trade Name:** KING AIR  
**Aircraft T.C./STC:** A14CE  
**Propeller Model:** HC-B3TN-3B, -3M  
**Propeller T.C.:** P15EA  
**Blade Model(s):** T10173-8  
 T10173B-8  
 T10173E-8  
 T10173N-8  
 T10173NB-8  
 T10173NE-8

**Modifier:**  
**Engine Model:** PT6A-28  
**Power:** 680 HP @ 2200 RPM  
**Placard/Restr:**

**Notes:** Low Pitch Angle is approximate. Refer to Raytheon maintenance instructions for on-wing adjustment procedures.

**Prop Diameter:** 93.5" TO 90 3/8"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** -11.0 +/-0.5  
**Low Pitch Angle:** 20.2 +/-0.1  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 87.0 +/-0.5  
**Cwt Angle:** Positive

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type                      | Item Number     | Description                       | Quantity | Qty Per | Comments                                       |
|--------------------------------|-----------------|-----------------------------------|----------|---------|--|
| PROPELLER                      | B3N10181        | HC-B3TN-3B/T10173NB-8/DE-ICE      | 2        | A/C     |  |
| PROPELLER                      | B3N10181KD      | HC-B3TN-3B/T10173NB-8/DE-ICE      | 2        | A/C     |  |
| BLADE                          | T10173-8        | BLADE                             | 3        | Prop    |  |
| BLADE                          | T10173B-8       | BLADE, 4E1188-5 BOOT              | 3        | Prop    |  |
| BLADE                          | T10173E-8       | BLADE, 4E1188-3 BOOT              | 3        | Prop    |  |
| BLADE                          | T10173N-8       | PCP:BLADE UNIT, ALUM [1,1,1]      | 3        | Prop    |  |
| BLADE                          | T10173NB-8      | PCP:BLADE UNIT, ALUM, 4H1188-5    | 3        | Prop    |  |
| BLADE                          | T10173NE-8      | BLADE UNIT, ALUMINUM, 4E1188-3    | 3        | Prop    |  |
| SPINNER                        | C-3065-P        | SPINNER ASSEMBLY                  | 1        | Prop    |  |
| SPIN MTG KIT                   | B-3384-4H       | BOLT, 1/4-28, HEX HEAD            | 12       | Prop    |  |
| SPIN MTG KIT                   | B-3808-4        | NUT,HEX,SELF-LOCKING              | 12       | Prop    |  |
| SPIN MTG KIT                   | B-3851-0432     | WASHER                            | 12       | Prop    |  |
| SP MT KIT DE-ICE               | A-2070-7        | SCREW, 1/4-28, BUTTON HEAD        | 12       | Prop    |  |
| SP MT KIT DE-ICE               | B-3808-4        | NUT,HEX,SELF-LOCKING              | 12       | Prop    |  |
| SP MT KIT DE-ICE               | B-3837-0432     | WASHER, CORROSION RESISTANT       | 12       | Prop    |  |
| SP MT KIT DE-ICE               | B-7077-52       | BELLEVILLE SPRING WASHER          | 24       | Prop    |  |
| COUNTERWEIGHT SLUG A-3039      |                 | SLUG, COUNTERWEIGHT               | 1        | Blade   |  |
| COUNTERWEIGHT SLUG A-890-8     |                 | PCP:SLUG, COUNTERWEIGHT           | 1        | Blade   |  |
| COUNTERWEIGHT SLUG B-3384-18H  |                 | BOLT, 1/4-28, HEX HEAD            | 2        | Blade   |  |
| COUNTERWEIGHT SLUG B-3851-0432 |                 | WASHER                            | 2        | Blade   | Optional                                       |
| COUNTERWEIGHT SLUG B-3851-0463 |                 | WASHER                            | 2        | Blade   | Optional                                       |
| DE-ICER                        | 4H1188-5        | DE-ICE BOOT                       | 1        | Blade   | Supersedes 7931-4E1188-5                       |
| DE-ICER                        | 7931-4E1188-3   | PROP DE-ICER                      | 1        | Blade   | Blade Component                                |
| DE-ICE KIT PR                  | 7931-65-100-1A  | DE-ICE KIT (ONE PROP)             | 1        | Prop    |  |
| DE-ICE KIT PR                  | 7931-65-100-1B1 | DE-ICE KIT (ONE PROP)             | 1        | Prop    |  |
| DE-ICE KIT PR                  | 7931-65-100-1B2 | DE-ICE KIT (ONE PROP)             | 1        | Prop    |  |
| MTG BOLT/STUD                  | B-3339          | BOLT, MOUNTING, 9/16-18, 12 POINT | 8        | Prop    |  |
| OVERHAUL KIT                   | HC-B3TN-3B-OH   | O/H KIT                           | 1        | Prop    | For aftermarket use only(ALSO REPLACES A-2741) |

# HARTZELL

## APPLICATION GUIDE

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BEECH

IDS No.: 270      Rev.: 1      D      Date: 01/07/2011

**Model:** A100, A100A (U-21F)  
**Trade Name:** KING AIR  
**Aircraft T.C./STC:** A14CE  
**Propeller Model:** HC-B4TN-3, -3A  
**Propeller T.C.:** P40EA

**Modifier:**  
**Engine Model:** PT6A-28, -28A(700hp), -34  
**Power:** 680 HP @ 2200 RPM

**Blade Model(s):** T10173FN-12.5  
 T10173FNB-12.5  
 T10173FNK-12.5

**Placard/Restr:** Avoid continuous operation below 1200 RPM with crosswinds above 30 knots.

**Prop Diameter:** 90" NO CUT OFF

**Notes:** Low Pitch Angle is approximate. Refer to Raytheon maintenance instructions for on-wing adjustment procedures.

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** -11.0 +-0.5  
**Low Pitch Angle:** 19.0 +-0.1

**Startlock Angle:** NA  
**Feather/High Angle:** 86.5 +-0.5  
**Cwt Angle:** Positive

**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u>              | <u>Item Number</u> | <u>Description</u>                | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>           |
|-------------------------------|--------------------|-----------------------------------|-----------------|----------------|---------------------------|
| BLADE                         | T10173FN-12.5      | PCP:BLADE UNIT, ALUMINUM          | 4               | Prop           |                           |
| BLADE                         | T10173FNB-12.5     | PCP:BLADE UNIT, ALUMINUM          | 4               | Prop           |                           |
| BLADE                         | T10173FNK-12.5     | PCP:BLADE UNIT, ALUM 4H2200-10    | 4               | Prop           |                           |
| SPINNER                       | C-3425-P           | SPINNER ASSEMBLY                  | 1               | Prop           |                           |
| COUNTERWEIGHT SLUG A-3039     |                    | SLUG, COUNTERWEIGHT               | 1               | Blade          |                           |
| COUNTERWEIGHT SLUG A-890-13   |                    | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          |                           |
| COUNTERWEIGHT SLUG B-3384-17H |                    | BOLT, 1/4-28, HEX HEAD            | 1               | Blade          |                           |
| DE-ICER                       | 4H1188-5           | DE-ICE BOOT                       | 1               | Blade          | Supersedes 7931-4E1188-5  |
| DE-ICER                       | 4H2200-10          | DE-ICE BOOT                       | 1               | Blade          | Supersedes 7931-4E2200-10 |
| MTG BOLT/STUD                 | B-3339             | BOLT, MOUNTING, 9/16-18, 12 POINT | 8               | Prop           |                           |

# HARTZELL

## APPLICATION GUIDE

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**BEECH**

IDS No.: 1183      Rev.: 5      IC Date: 01/27/2020

**Model:** B100  
**Trade Name:** KING AIR  
**Aircraft T.C./STC:** STC SA455CH-D  
**Propeller Model:** HC-B4TN-5F  
**Propeller T.C.:** P40EA  
**Blade Model(s):** T10173AN-12.5  
                           T10173ANB-12.5  
                           T10173ANK-12.5

**Modifier:** Garrett Aviation Services  
**Engine Model:** TPE331-10  
**Power:** 715 HP @ 2000 RPM  
**Placard/Restr:**  
**Notes:** "K" boots de-ice kits: 67-929-1, prop; 67-929-2, airframe

**Prop Diameter:** 90"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** -10.0 +0.5  
**Low Pitch Angle:** NA  
**Stud Protrusion**

**Startlock Angle:** 2.5 +-0.1  
**Feather/High Angle:** 87.0 +-0.5  
**Cwt Angle:** Positive

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u>               | <u>Item Number</u> | <u>Description</u>                | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>                 |
|--------------------------------|--------------------|-----------------------------------|-----------------|----------------|---------------------------------|
| PROPELLER                      | B4N10409           | HC-B4TN-5F/T10173ANB-12.5         | 2               | A/C            |                                 |
| PROPELLER                      | B4N10412S          | HC-B4TN-5F/T10173ANB-12.5/SPIN    | 2               | A/C            |                                 |
| PROPELLER                      | B4N10413S          | HC-B4TN-5F/T10173ANK-12.5/SPIN    | 2               | A/C            |                                 |
| PROPELLER                      | B4N10414           | HC-B4TN-5F/T10173ANK-12.5         | 2               | A/C            |                                 |
| BLADE                          | T10173AN-12.5      | PCP:BLADE UNIT, ALUMINUM          | 4               | Prop           |                                 |
| BLADE                          | T10173ANB-12.5     | BLADE UNIT, ALUMINUM, 4H1188-5    | 4               | Prop           |                                 |
| BLADE                          | T10173ANK-12.5     | PCP:BLADE UNIT, ALUM 4H2200-10    | 4               | Prop           |                                 |
| SPINNER                        | D-3434-10P         | SPINNER ASSEMBLY                  | 1               | Prop           |                                 |
| SPINNER                        | D-3434-4P          | SPINNER ASSEMBLY                  | 1               | Prop           |                                 |
| COUNTERWEIGHT SLUG A-3039      |                    | SLUG, COUNTERWEIGHT               | 1               | Blade          |                                 |
| COUNTERWEIGHT SLUG A-890-8     |                    | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          |                                 |
| COUNTERWEIGHT SLUG B-3384-18H  |                    | BOLT, 1/4-28, HEX HEAD            | 2               | Blade          |                                 |
| COUNTERWEIGHT SLUG B-3851-0432 |                    | WASHER                            | 2               | Blade          | Optional                        |
| COUNTERWEIGHT SLUG B-3851-0463 |                    | WASHER                            | 2               | Blade          | Optional                        |
| DE-ICER                        | 4H1188-5           | DE-ICE BOOT                       | 1               | Blade          | Supersedes 7931-4E1188-5        |
| DE-ICER                        | 4H2200-10          | DE-ICE BOOT                       | 1               | Blade          | Supersedes 7931-4E2200-10       |
| DE-ICE KIT PR                  | 102441-1           | DE-ICE KIT (ONE PROP)             | 1               | Prop           | QDS kit inclds "B" de-ice boots |
| DE-ICE KIT PR                  | 102441-2           | DE-ICE KIT (ONE PROP)             | 1               | Prop           | QDS kit inclds "K" de-ice boots |
| DE-ICE KIT PR                  | 7931-65-616-1      | DE-ICE KIT (ONE PROP)             | 1               | Prop           | For use with "B" de-icer        |
| DE-ICE KIT PR                  | 7931-65-616-1B     | DE-ICE KIT (ONE PROP)             | 1               | Prop           | For use with "B" de-icer        |
| DE-ICE KIT PR                  | 7931-67-929-1      | DE-ICE KIT (ONE PROP)             | 1               | Prop           | For use with "K" de-icer        |
| MTG BOLT/STUD                  | B-3339             | BOLT, MOUNTING, 9/16-18, 12 POINT | 8               | Prop           |                                 |
| OVERHAUL KIT                   | HC-B4TN-5F-OH      | O/H KIT                           | 1               | Prop           | For aftermarket use only        |

# HARTZELL

## APPLICATION GUIDE 159

**BEECH**

IDS No.: 271      Rev.: 6      IC    Date: 02/01/2016

**Model:** 100, A100  
**Trade Name:** KING AIR  
**Aircraft T.C./STC:** STC-SA5661NM  
**Propeller Model:** HC-D4N-3C  
**Propeller T.C.:** P10NE  
**Blade Model(s):** D9290  
                                 D9290K  
**Prop Diameter:** 93.0" TO 92.0"

**Modifier:** RAISBECK  
**Engine Model:** PT6A-28, -34  
**Power:** 680 HP @ 2200 RPM  
**Placard/Restr:**  
**Notes:**

### **Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** -9.0 +/-0.5  
**Low Pitch Angle:** 20.1 +/- 0.1  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 84.5 +/-0.5  
**Cwt Angle:**

### **Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

### **Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>                | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>                       |
|------------------|--------------------|-----------------------------------|-----------------|----------------|---------------------------------------|
| PROPELLER        | D4N00145S          | HC-D4N-3C/D9290K/D-630-P          | 2               | A/C            |                                       |
| PROPELLER        | D4N00145SKD        | HC-D4N-3C/D9290K/D-630-P          | 2               | A/C            |                                       |
| PROPELLER        | D4N00148           | HC-D4N-3C/D9290K/BULKHEAD/DEIC    | 2               | A/C            | w/ dyn bal & univ sync holes          |
| PROPELLER        | D4N00148KD         | HC-D4N-3C/D9290K/BULKHEAD/DEIC    | 2               | A/C            | w/ dyn bal & univ sync holes          |
| PROPELLER        | D4N00148S          | HC-D4N-3C/D9290K/D-630-7P         | 2               | A/C            |                                       |
| PROPELLER        | D4N00148SKD        | HC-D4N-3C/D9290K/D-630-7P         | 2               | A/C            |                                       |
| BLADE            | D9290              | PCP:BLADE UNIT, ALUMINUM          | 4               | Prop           |                                       |
| BLADE            | D9290K             | PCP:BLADE UNIT, ALUM 4H2271-12    | 4               | Prop           |                                       |
| SPINNER          | D-630-7            | SPINNER ASSEMBLY                  | 1               | Prop           | w/ dyn bal & univ sync holes          |
| SPINNER          | D-630-7P           | SPINNER ASSEMBLY                  | 1               | Prop           | w/ dyn bal & univ sync holes          |
| SPINNER          | D-630-P            | SPINNER ASSEMBLY                  | 1               | Prop           |                                       |
| SPIN MTG KIT     | A-2070-7           | SCREW, 1/4-28, BUTTON HEAD        | 8               | Prop           |                                       |
| COUNTERWEIGHT    | C-472-1            | PCP:COUNTERWEIGHT                 | 1               | Blade          |                                       |
| DE-ICER          | 4H2271-12          | DE-ICE BOOT                       | 1               | Blade          | Supersedes 4H2271-10 & 7931-4E2271-10 |
| DE-ICE KIT PR    | 106298             | DE-ICE KIT (ONE PROP)             | 1               | Prop           | Supersedes 7931-67-450-1              |
| DE-ICE KIT PR    | 7931-67-450-1      | DE-ICE KIT (ONE PROP)             | 1               | Prop           | Superseded by 106298                  |
| MTG BOLT/STUD    | B-3339-1           | BOLT, MOUNTING, 9/16-18, 12 POINT | 8               | Prop           |                                       |
| MISC ACCES       | A-3044             | BLOCK, BETA FEEDBACK- ASSEMBLY    | 1               | Prop           |                                       |
| OVERHAUL KIT     | 106298-OH          | DE-ICE O/H KIT, 4H2271-12 BOOT    | 1               | Prop           | For aftermarket use only              |
| OVERHAUL KIT     | HC-D4N-3C-OH       | O/H KIT                           | 1               | Prop           | For aftermarket use only              |



# HARTZELL

## APPLICATION GUIDE

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**BEECH**

IDS No.: 1225      Rev.: 5      IC Date: 01/27/2020

**Model:** B100  
**Trade Name:** KING AIR  
**Aircraft T.C./STC:** SA02539CH-D  
**Propeller Model:** HC-B4TN-5F  
**Propeller T.C.:** P40EA

**Modifier:** Hartzell Propeller inc.  
**Engine Model:** TPE331-6, -10  
**Power:** 715 HP @ 2000 RPM  
**Placard/Restr:** Stabilized ground operation is prohibited below 76% (1520) propeller RPM

**Blade Model(s):** T10173AN-12.5  
 T10173ANB-12.5  
 T10173ANK-12.5

**Notes:**

**Prop Diameter:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** -10.0 +-0.5  
**Low Pitch Angle:** NA

**Startlock Angle:** 2.5 +-0.1  
**Feather/High Angle:** 87.0 +-0.5  
**Cwt Angle:** Positive

**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type                      | Item Number    | Description                       | Quantity | Qty Per | Comments  |
|--------------------------------|----------------|-----------------------------------|----------|---------|---|
| PROPELLER                      | B4N10407       | HC-B4TN-5F/T10173ANK-12.5         | 2        | A/C     | Propeller assembly w/o-spinner and with "K" boot  |
| PROPELLER                      | B4N10407S      | HC-B4TN-5F/T10173ANK-12.5/SPIN    | 2        | A/C     | Propeller assembly with spinner and with "K" boot |
| PROPELLER                      | B4N10409       | HC-B4TN-5F/T10173ANB-12.5         | 2        | A/C     | Propeller assembly w/o-spinner and with "B" boot  |
| PROPELLER                      | B4N10409S      | HC-B4TN-5F/T10173ANB-12.5/SPIN    | 2        | A/C     | Propeller assembly with spinner and with "B" boot |
| BLADE                          | T10173AN-12.5  | PCP:BLADE UNIT, ALUMINUM          | 4        | Prop    |   |
| BLADE                          | T10173ANB-12.5 | BLADE UNIT, ALUMINUM, 4H1188-5    | 4        | Prop    |   |
| BLADE                          | T10173ANK-12.5 | PCP:BLADE UNIT, ALUM 4H2200-10    | 4        | Prop    |   |
| SPINNER                        | D-3434-10P     | SPINNER ASSEMBLY                  | 1        | Prop    |   |
| SPINNER                        | D-3434-4P      | SPINNER ASSEMBLY                  | 1        | Prop    |   |
| SP MT KIT DE-ICE               | 102831         | BOLT, HEX, 1/4-28, CRS            | 4        | Prop    | With 4H2200-10/7931-67-265-1 Boot/De-ice Kit      |
| COUNTERWEIGHT SLUG A-3039      |                | SLUG, COUNTERWEIGHT               | 1        | Blade   |   |
| COUNTERWEIGHT SLUG A-890-8     |                | PCP:SLUG, COUNTERWEIGHT           | 1        | Blade   |   |
| COUNTERWEIGHT SLUG B-3384-18H  |                | BOLT, 1/4-28, HEX HEAD            | 2        | Blade   |   |
| COUNTERWEIGHT SLUG B-3851-0432 |                | WASHER                            | 2        | Blade   | Optional  |
| COUNTERWEIGHT SLUG B-3851-0463 |                | WASHER                            | 2        | Blade   | Optional  |
| DE-ICER                        | 4H1188-5       | DE-ICE BOOT                       | 1        | Blade   | Supersedes 7931-4E1188-5                          |
| DE-ICER                        | 4H2200-10      | DE-ICE BOOT                       | 1        | Blade   | Supersedes 7931-4E2200-10                         |
| DE-ICE KIT PR                  | 7931-65-125-1A | DE-ICE KIT (ONE PROP)             | 1        | Prop    | For "B" de-icer                                   |
| DE-ICE KIT PR                  | 7931-65-125-1B | DE-ICE KIT (ONE PROP)             | 1        | Prop    | For "B" de-icer                                   |
| DE-ICE KIT PR                  | 7931-67-265-1  | DE-ICE KIT (ONE PROP)             | 1        | Prop    | For "K" de-icer                                   |
| DE-ICE KIT PR                  | 7931-67-265-2  | DE-ICE KIT (ONE PROP)             | 1        | Prop    | For "K" de-icer                                   |
| MTG BOLT/STUD                  | B-3339         | BOLT, MOUNTING, 9/16-18, 12 POINT | 8        | Prop    |   |
| OVERHAUL KIT                   | HC-B4TN-5F-OH  | O/H KIT                           | 1        | Prop    | For aftermarket use only                          |

# HARTZELL

## APPLICATION GUIDE

159

**BEECH**

IDS No.: 275      Rev.: 3      IC Date: 08/18/2021

**Model:** A200  
**Trade Name:** SUPER KING AIR  
**Aircraft T.C./STC:** A24CE  
**Propeller Model:** HC-B3TN-3G, -3N  
**Propeller T.C.:** P15EA  
**Blade Model(s):** T10178B-3R  
 T10178NB-3R  
 T10178NB-3R\*1

**Modifier:**  
**Engine Model:** PT6A-38, -41  
**Power:** 750 HP @ 2000 RPM  
**Placard/Restr:**

**Notes:** Low Pitch Angle is approximate. Refer to Raytheon maintenance instructions for on-wing adjustment procedures.

**Prop Diameter:** 98.5" TO 97.5"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** -9.0 +-0.4  
**Low Pitch Angle:** 23.5 +-0.1  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 90.0 +-0.5  
**Cwt Angle:** Positive

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type                      | Item Number     | Description                         | Quantity | Qty Per | Comments                               |
|--------------------------------|-----------------|-------------------------------------|----------|---------|--|
| PROPELLER                      | B3N10655        | HC-B3TN-3G/T10178NB-3R*1/BULK       | 2        | A/C     |  |
| PROPELLER                      | B3N10659        | HC-B3TN-3G/T10178NB-3R/BULK         | 2        | A/C     |  |
| BLADE                          | T10178B-3R      | BLADE, 4E1188-5 BOOT                | 3        | Prop    |  |
| BLADE                          | T10178NB-3R     | PCP: BLADE UNIT, ALUMINUM, 4H1188-5 |          | Prop    |  |
| BLADE                          | T10178NB-3R*1   | PCP: BLADE UNIT, ALUMINUM, 4H1188-5 |          | Prop    | Black blades with 6" yellow tip stripe |
| SPINNER                        | C-3065-12P      | SPINNER ASSEMBLY                    | 1        | Prop    |  |
| SPIN MTG KIT                   | B-3384-4H       | BOLT, 1/4-28, HEX HEAD              | 12       | Prop    |  |
| SPIN MTG KIT                   | B-3808-4        | NUT,HEX,SELF-LOCKING                | 12       | Prop    |  |
| SPIN MTG KIT                   | B-3851-0432     | WASHER                              | 24       | Prop    |  |
| SP MT KIT DE-ICE               | A-2070-10       | SCREW, 1/4-28, BUTTON HEAD          | 12       | Prop    | For 67-280-1                           |
| SP MT KIT DE-ICE               | A-2070-7        | SCREW, 1/4-28, BUTTON HEAD          | 12       | Prop    | For 65-100-1B1 (Optional)              |
| SP MT KIT DE-ICE               | A-2070-8        | SCREW, 1/4-28, BUTTON HEAD          | 12       | Prop    | 65-100-1B1 (Primary)                   |
| SP MT KIT DE-ICE               | B-3808-4        | NUT,HEX,SELF-LOCKING                | 12       | Prop    | For 67-280-1                           |
| SP MT KIT DE-ICE               | B-3837-0432     | WASHER, CORROSION RESISTANT         | 12       | Prop    | For 67-280-1                           |
| SP MT KIT DE-ICE               | B-7077-52       | BELLEVILLE SPRING WASHER            | 24       | Prop    | For 67-280-1                           |
| COUNTERWEIGHT SLUG A-3039      |                 | SLUG, COUNTERWEIGHT                 | 1        | Blade   |  |
| COUNTERWEIGHT SLUG A-890-6     |                 | PCP:SLUG, COUNTERWEIGHT             | 2        | Blade   |  |
| COUNTERWEIGHT SLUG B-3384-12H  |                 | BOLT, 1/4-28, HEX HEAD              | 2        | Blade   |  |
| COUNTERWEIGHT SLUG B-3384-21H  |                 | BOLT, 1/4-28, HEX HEAD              | 2        | Blade   |  |
| COUNTERWEIGHT SLUG B-3851-0432 |                 | WASHER                              | 4        | Blade   | Optional                               |
| DE-ICER                        | 4H1188-5        | DE-ICE BOOT                         | 1        | Blade   | Supersedes 7931-4E1188-5               |
| DE-ICE KIT PR                  | 7931-65-100-1A  | DE-ICE KIT (ONE PROP)               | 1        | Prop    |  |
| DE-ICE KIT PR                  | 7931-65-100-1B1 | DE-ICE KIT (ONE PROP)               | 1        | Prop    | For use with "B" de-icer               |
| DE-ICE KIT PR                  | 7931-65-100-1B2 | DE-ICE KIT (ONE PROP)               | 1        | Prop    | For use with "B" de-icer               |
| DE-ICE KIT PR                  | 7931-65-100-1BM | DE-ICE KIT (LEFT PROP) SYNCHRO      | 1        | Prop    | For use with "B" de-icer               |
| DE-ICE KIT PR                  | 7931-65-100-1BS | DE-ICE KIT (RIGHT PROP) SYNCHR      | 1        | Prop    | For use with "B" de-icer               |
| DE-ICE KIT PR                  | 7931-67-280-2   | DE-ICE KIT (ONE PROP)               | 1        | Prop    | For use with "K" de-icer               |
| MTG BOLT/STUD                  | B-3339          | BOLT, MOUNTING, 9/16-18, 12 POINT   | 8        | Prop    |  |
| OVERHAUL KIT                   | HC-B3TN-3G-OH   | O/H KIT                             | 1        | Prop    | For aftermarket use only               |

# HARTZELL

## APPLICATION GUIDE

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BEECH

IDS No.: 273 Rev.: 6 IC Date: 07/15/2015

**Model:** 200(T), 200C(T), A200C(T), B200(T), B200C(T),A100-1

**Modifier:**

**Trade Name:** SUPER KING AIR

**Engine Model:** PT6A-41 (PT6A-42, B200 & B200C)

**Aircraft T.C./STC:** A24CE

**Power:** 850 HP @ 2000 RPM

**Propeller Model:** HC-B3TN-3G, -3N

**Placard/Restr:**

**Propeller T.C.:** P15EA

**Notes:** Fit one A-3044 Carbon Block Assembly per customer request. Low pitch angle is approximate. Refer to Raytheon maintenance instructions for on-wing adjustment procedures.

**Blade Model(s):** T10178-3R  
T10178B-3R  
T10178K-3R  
T10178N-3R  
T10178NB-3R  
T10178NK-3R

**Prop Diameter:** 98.5" TO 97.5"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** -9.0 +-0.4  
**Low Pitch Angle:** 23.5 +-0.1  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 90.0 +-0.5  
**Cwt Angle:** Positive

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type                      | Item Number | Description                         | Quantity | Qty Per | Comments                                  |
|--------------------------------|-------------|-------------------------------------|----------|---------|---|
| PROPELLER                      | B3N02680    | HC-B3TN-3N/T10178B-3R               | 2        | A/C     |   |
| PROPELLER                      | B3N10650    | HC-B3TN-3G/T10178N-3R               | 2        | A/C     | Complete Prop w/Spin Mtg.Plate, no de-ice |
| PROPELLER                      | B3N10658    | HC-B3TN-3G/T10178NB-3R/BULK         | 2        | A/C     | Complete prop less dome & mtg hdw         |
| PROPELLER                      | B3N10658S   | HC-B3TN-3G/T10178NB-3R/SPINNER      | 2        | A/C     |   |
| PROPELLER                      | B3N10660    | HC-B3TN-3G/T10178NB-3R/DE-ICE       | 2        | A/C     |   |
| PROPELLER                      | B3N10660KD  | HC-B3TN-3G/T10178NB-3R/DE-ICE       | 2        | A/C     |   |
| PROPELLER                      | B3N10661    | HC-B3TN-3G/T10178NK-3R/DE-ICE       | 0        |         |   |
| PROPELLER                      | B3N10661KD  | HC-B3TN-3G/T10178NK-3R/DE-ICE       | 2        | A/C     |   |
| PROPELLER                      | B3N12655    | HC-B3TN-3N/T10178N-3R               | 2        | A/C     | N/A A100-1                                |
| PROPELLER                      | B3N12660    | HC-B3TN-3N/T10178NK-3R              | 2        | A/C     |   |
| PROPELLER                      | B3N12660KD  | HC-B3TN-3N/T10178NK-3R              | 2        | A/C     |   |
| PROPELLER                      | B3N12661    | HC-B3TN-3N/T10178NK-3R/BULK         | 2        | A/C     |   |
| PROPELLER                      | B3N12680    | HC-B3TN-3N/T10178NB-3R              | 2        | A/C     |   |
| BLADE                          | T10178-3R   | BLADE                               | 3        | Prop    |   |
| BLADE                          | T10178B-3R  | BLADE, 4E1188-5 BOOT                | 3        | Prop    |   |
| BLADE                          | T10178K-3R  | BLADE UNIT, ALUMINUM                | 3        | Prop    |   |
| BLADE                          | T10178N-3R  | PCP:BLADE UNIT, ALUM [1,1,1]        | 3        | Prop    |   |
| BLADE                          | T10178NB-3R | PCP: BLADE UNIT, ALUMINUM, 4H1188-8 |          | Prop    |   |
| BLADE                          | T10178NK-3R | PCP: BLADE UNIT, ALUMINUM,4H2200-10 |          | Prop    |   |
| SPINNER                        | C-3065-13   | SPINNER ASSEMBLY                    | 1        | Prop    |   |
| SPINNER                        | C-3065-13P  | SPINNER ASSEMBLY                    | 1        | Prop    |   |
| SPIN MTG KIT                   | B-3384-4H   | BOLT, 1/4-28, HEX HEAD              | 12       | Prop    |   |
| SPIN MTG KIT                   | B-3808-4    | NUT,HEX,SELF-LOCKING                | 12       | Prop    |   |
| SPIN MTG KIT                   | B-3851-0432 | WASHER                              | 24       | Prop    |   |
| SPIN MTG KIT                   | B-3851-0434 | IDS Item                            | 24       | Prop    |   |
| SP MT KIT DE-ICE               | A-2070-10   | SCREW, 1/4-28, BUTTON HEAD          | 12       | Prop    | For 67-280-1                              |
| SP MT KIT DE-ICE               | A-2070-7    | SCREW, 1/4-28, BUTTON HEAD          | 12       | Prop    | For 65-100-1B1                            |
| SP MT KIT DE-ICE               | B-3808-4    | NUT,HEX,SELF-LOCKING                | 12       | Prop    | For 67-280-1                              |
| SP MT KIT DE-ICE               | B-3837-0432 | WASHER, CORROSION RESISTANT         | 12       | Prop    | For 67-280-1                              |
| SP MT KIT DE-ICE               | B-7077-52   | BELLEVILLE SPRING WASHER            | 24       | Prop    | For 67-280-1                              |
| COUNTERWEIGHT SLUG A-3039      |             | SLUG, COUNTERWEIGHT                 | 1        | Blade   |   |
| COUNTERWEIGHT SLUG A-890-6     |             | PCP:SLUG, COUNTERWEIGHT             | 2        | Blade   |   |
| COUNTERWEIGHT SLUG B-3384-12H  |             | BOLT, 1/4-28, HEX HEAD              | 2        | Blade   |   |
| COUNTERWEIGHT SLUG B-3384-21H  |             | BOLT, 1/4-28, HEX HEAD              | 2        | Blade   |   |
| COUNTERWEIGHT SLUG B-3851-0432 |             | WASHER                              | 2        | Blade   | Optional                                  |

|               |                 |                                   |   |       |                           |
|---------------|-----------------|-----------------------------------|---|-------|---------------------------|
| DE-ICER       | 4H1188-5        | DE-ICE BOOT                       | 1 | Blade | Supersedes 7931-4E1188-5  |
| DE-ICER       | 4H2200-10       | DE-ICE BOOT                       | 1 | Blade | Supersedes 7931-4E2200-10 |
| DE-ICE KIT PR | 7931-65-100-1A  | DE-ICE KIT (ONE PROP)             | 1 | Prop  |                           |
| DE-ICE KIT PR | 7931-65-100-1B1 | DE-ICE KIT (ONE PROP)             | 1 | Prop  | For use with "B" de-icer  |
| DE-ICE KIT PR | 7931-65-100-1B2 | DE-ICE KIT (ONE PROP)             | 1 | Prop  | For use with "B" de-icer  |
| DE-ICE KIT PR | 7931-65-100-1BM | DE-ICE KIT (LEFT PROP) SYNCHRO    | 1 | Prop  | For use with "B" de-icer  |
| DE-ICE KIT PR | 7931-65-100-1BS | DE-ICE KIT (RIGHT PROP) SYNCHR    | 1 | Prop  | For use with "B" de-icer  |
| DE-ICE KIT PR | 7931-67-280-2   | DE-ICE KIT (ONE PROP)             | 1 | Prop  | For use with "K" de-icer  |
| MTG BOLT/STUD | B-3339          | BOLT, MOUNTING, 9/16-18, 12 POINT | 8 | Prop  |                           |
| MISC ACCES    | A-3044          | BLOCK, BETA FEEDBACK- ASSEMBLY    | 1 | Prop  |                           |
| OVERHAUL KIT  | HC-B3TN-3G-OH   | O/H KIT                           | 1 | Prop  | For aftermarket use only  |
| OVERHAUL KIT  | HC-B3TN-3N-OH   | O/H KIT                           | 1 | Prop  | For aftermarket use only  |

# HARTZELL

## APPLICATION GUIDE

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**BEECH**

**IDS No.:** 1075      **Rev.:** 9      **IC Date:** 07/26/2022

**Model:** B200, B200C, B200T, B200CT  
**Trade Name:** SUPER KING AIR (s/n BT35+ & BN5+)  
**Aircraft T.C./STC:** A24CE  
**Propeller Model:** HC-E4N-3G  
**Propeller T.C.:** P10NE

**Modifier:**  
**Engine Model:** PT6A-42

**Power:** 850 HP @ 2000 RPM  
**Placard/Restr:** Stabilized ground operation is prohibited between 500 and 1180 RPM. The propeller may be operated when feathered at or below 500 RPM.

**Blade Model(s):** D9390S-1R  
 D9390SK-1R  
 D9390SK-1R\*2  
**Prop Diameter:** 93.0" TO 92.0"

**Notes:** At the low pitch setting, check blade to blade angles at the 36 and 42" radial locations. All blades must be within 0.3 degree of one another. Low pitch angle is approximate. Refer to Raytheon maintenance instructions for on-wing adjustment procedures; De-Ice kits 102282-1 & 67-890-1 are identical. Per Beech request to keep prop item P/N same for B200GT as the B200 series on this IDS, the 102282-1 de-ice kit will be used for all 200 series.

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** -11.0 +-0.5  
**Low Pitch Angle:** 18.2 +-0.1  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 85.8 +-0.5  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>                 | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>   |
|------------------|--------------------|------------------------------------|-----------------|----------------|---|
| PROPELLER        | E4N00080           | HC-E4N-3G/D9390SK-1R               | 2               | A/C            | Prop less spinner with 102282-1 De-ice kit  |
| PROPELLER        | E4N00080KD         | HC-E4N-3G/D9390SK-1R               | 2               | A/C            | Prop less spinner, dis-assembled for shipment with 102282-1 De-ice kit                    |
| PROPELLER        | E4N00080S          | HC-E4N-3G/D9390SK-1R/D-630-2P      | 2               | A/C            | Prop with D-630-2P Polished spinner & 102282-1 De-ice kit                                 |
| PROPELLER        | E4N00080SKD        | HC-E4N-3G/D9390SK-1R/D-630-2P      | 2               | A/C            | Prop with D-630-2P Polished Spinner, 102282-1 De-ice kit, prop dis-assembled for shipment |
| PROPELLER        | E4N00081S          | HC-E4N-3G/D9390SK-1R/D-630-2       | 2               | A/C            | Prop with D-630-2 Unpolished spinner & 102282-1 De-ice kit                                |
| PROPELLER        | E4N00082           | HC-E4N-3G/D9390SK-1R/BULK/DEI      | 2               | A/C            | Prop with Polished bulkhead & 102282-1 De-ice kit but less spinner dome                   |
| PROPELLER        | E4N00082KD         | HC-E4N-3G/D9390SK-1R/BULK/DEI      | 2               | A/C            | Prop with spinner bulkhead but less spinner dome, prop dis-assembled for shipment         |
| PROPELLER        | E4N00089           | HC-E4N-3G/D9390SK-1R*2/BULK/DEICE2 |                 | A/C            |   |
| BLADE            | D9390S-1R          | PCP:BLADE UNIT, ALUMINUM           | 4               | Prop           |   |
| BLADE            | D9390SK-1R         | PCP:BLADE UNIT, ALUM, 103880       | 4               | Prop           | Included with every prop on this IDS  |
| BLADE            | D9390SK-1R*2       | PCP:BLADE UNIT, ALUMINUM           | 4               | Prop           |   |
| SPINNER          | D-630-2            | SPINNER ASSEMBLY                   | 1               | Prop           | Non-polished spinner (suitable surface for paint)   |
| SPINNER          | D-630-2P           | SPINNER ASSEMBLY                   | 1               | Prop           | Polished spinner  |
| SPIN MTG KIT     | A-2070-7           | SCREW, 1/4-28, BUTTON HEAD         | 8               | Prop           | Included with every prop on this IDS (in de-ice kit)                                      |
| COUNTERWEIGHT    | C-472-4            | PCP:COUNTERWEIGHT                  | 1               | Blade          | Blade component, Included with every prop on this IDS                                     |
| DE-ICER          | 103880             | DE-ICE BOOT                        | 1               | Blade          | Supersedes 4H2271-10 & -12  |
| DE-ICE KIT PR    | 102282-1           | DE-ICE KIT (ONE PROP)              | 1               | Prop           | Superseded by 106298  |
| DE-ICE KIT PR    | 106298             | DE-ICE KIT (ONE PROP)              | 1               | Prop           | Supersedes 102282-1   |

|               |              |                                |   |      |                                      |
|---------------|--------------|--------------------------------|---|------|--------------------------------------|
| MTG BOLT/STUD | B-3339-1     | BOLT,MOUNTING,9/16-18,12 POINT | 8 | Prop | Included with every prop on this IDS |
| OVERHAUL KIT  | HC-E4N-3G-OH | O/H KIT                        | 1 | Prop | For aftermarket use only             |

### BEECH

**Model:** 200, B200  
**Trade Name:** RAISBECK KING AIR  
**Aircraft T.C./STC:** SA2698NM-S  
**Propeller Model:** HC-D4N-3A  
**Propeller T.C.:** P10NE

**Blade Model(s):** D9383K  
**Prop Diameter:** 94" TO 93"

**IDS No.:** 276      **Rev.:** 10      |      **Date:** 01/04/2022

**Modifier:** RAISBECK  
**Engine Model:** PT6A-41, -42, -52, -61  
**Power:** 850 HP @ 2000 RPM  
**Placard/Restr:** Stabilized operation at propeller speeds below 1150 RPM is prohibited, except with propeller feathered, operation between zero and 400 RPM is permissible.

**Notes:** Synchrophaser target screws are not installed at the factory. Inspection note: No tip angle required on this prop. Raisbeck decals on blades.

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** -10.5 +0.5  
**Low Pitch Angle:** 19.0 +0.1  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 86.0 +0.5  
**Cwt Angle:**

#### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:**

#### Hartzell Approved Items:

| Item Type     | Item Number   | Description                    | Quantity | Qty Per | Comments                              |
|---------------|---------------|--------------------------------|----------|---------|---------------------------------------|
| PROPELLER     | D4N00129      | HC-D4N-3A/D9383K/BULKHEAD/DEIC | 2        | A/C     | w/ dyn bal & univ sync holes          |
| PROPELLER     | D4N00129KD    | HC-D4N-3A/D9383K/BULKHEAD/DEIC | 2        | A/C     | w/ dyn bal & univ sync holes          |
| PROPELLER     | D4N00130      | HC-D4N-3A/D9383K               | 0        |         |                                       |
| PROPELLER     | D4N00130KD    | HC-D4N-3A/D9383K               | 2        | A/C     |                                       |
| PROPELLER     | D4N00130S     | HC-D4N-3A/D9383K/D-630-P       | 2        | A/C     |                                       |
| PROPELLER     | D4N00130SKD   | HC-D4N-3A/D9383K/D-630-P       | 2        | A/C     |                                       |
| PROPELLER     | D4N00131      | HC-D4N-3A/D9383K/BULKHEAD/DEIC | 2        | A/C     |                                       |
| PROPELLER     | D4N00131KD    | HC-D4N-3A/D9383K/BULKHEAD/DEIC | 2        | A/C     |                                       |
| PROPELLER     | D4N00132      | HC-D4N-3A/D9383K               | 2        | A/C     |                                       |
| PROPELLER     | D4N00132KD    | HC-D4N-3A/D9383K               | 2        | A/C     |                                       |
| PROPELLER     | D4N00132S     | HC-D4N-3A/D9383K/D-630-7P      | 2        | A/C     |                                       |
| PROPELLER     | D4N00132SKD   | HC-D4N-3A/D9383K/D-630-7P      | 2        | A/C     |                                       |
| BLADE         | D9383K        | PCP:BLADE UNIT, ALUMINUM       | 4        | Prop    |                                       |
| SPINNER       | D-630-7       | SPINNER ASSEMBLY               | 1        | Prop    | w/ dyn bal & univ sync holes          |
| SPINNER       | D-630-7P      | SPINNER ASSEMBLY               | 1        | Prop    | w/ dyn bal & univ sync holes          |
| SPINNER       | D-630-P       | SPINNER ASSEMBLY               | 1        | Prop    |                                       |
| SPIN MTG KIT  | A-2070-7      | SCREW, 1/4-28, BUTTON HEAD     | 8        | Prop    |                                       |
| COUNTERWEIGHT | C-472-2       | PCP:COUNTERWEIGHT              | 1        | Blade   |                                       |
| DE-ICER       | 4H2271-12     | DE-ICE BOOT                    | 1        | Blade   | Supersedes 4H2271-10 & 7931-4E2271-10 |
| DE-ICE KIT PR | 106298        | DE-ICE KIT (ONE PROP)          | 1        | Prop    | Supersedes 7931-67-450-1              |
| DE-ICE KIT PR | 7931-67-450-1 | DE-ICE KIT (ONE PROP)          | 1        | Prop    | Superseded by 106298                  |
| MTG BOLT/STUD | B-3339-1      | BOLT,MOUNTING,9/16-18,12 POINT | 8        | Prop    |                                       |
| OVERHAUL KIT  | 106298-OH     | DE-ICE O/H KIT, 4H2271-12 BOOT | 1        | Prop    | For aftermarket use only              |
| OVERHAUL KIT  | HC-D4N-3A-OH  | O/H KIT                        | 1        | Prop    | For aftermarket use only              |

# HARTZELL

## APPLICATION GUIDE

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**BEECH**

**IDS No.:** 2699      **Rev.:** 6      **IC Date:** 05/10/2017

**Model:** B200GT, B200CGT

**Modifier:**

**Trade Name:**

**Engine Model:** PT6A-52

**Aircraft T.C./STC:** A24CE

**Power:** 850 HP @ 2000 RPM

**Propeller Model:** HC-E4N-3G

**Placard/Restr:** Stabilized ground operation is prohibited between 500 and 1180 RPM. The propeller may be operated when feathered at or below 500 RPM.

**Propeller T.C.:** P10NE

**Notes:** At the low pitch setting, check blade to blade angles at the 36 and 42 inch radial locations. All blades must be within 0.3 degree of one another. Low pitch angle is approximate. Refer to Raytheon maintenance instructions for on-wing adjustment procedures.

**Blade Model(s):** D9390S-1R

D9390SK-1R

**Prop Diameter:** 93.0" TO 92.0"

### Prop Setup:

**Ref. Radius:** 30

**Startlock Angle:** NA

**Reverse Angle:** -11.0+/-0.5

**Feather/High Angle:** 85.8 +/-0.5

**Low Pitch Angle:** 18.2+/-0.1

**Cwt Angle:**

**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>                | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>  |
|------------------|--------------------|-----------------------------------|-----------------|----------------|--|
| PROPELLER        | E4N00080           | HC-E4N-3G/D9390SK-1R              | 2               | A/C            | Prop assy with 102282-1 De-ice kit   |
| PROPELLER        | E4N00080KD         | HC-E4N-3G/D9390SK-1R              | 2               | A/C            | Prop dis-assembled for shipment with 102282-1 De-ice kit                     |
| PROPELLER        | E4N00080S          | HC-E4N-3G/D9390SK-1R/D-630-2P     | 2               | A/C            | Prop with D-630-2P Polished Spinner Assy. & 102282-1 De-ice kit              |
| PROPELLER        | E4N00080SKD        | HC-E4N-3G/D9390SK-1R/D-630-2P     | 2               | A/C            | Prop with D-630-2P Polished Spinner, prop dis-assembled for shipment         |
| PROPELLER        | E4N00081S          | HC-E4N-3G/D9390SK-1R/D-630-2      | 1               | A/C            | Prop with D-630-2P Unpolished Spinner Assy. & 102282-1 De-ice kit            |
| PROPELLER        | E4N00082           | HC-E4N-3G/D9390SK-1R/BULK/DEI     | 2               | A/C            | Prop with D-630-2 Polished Bulkhead & 102282-1 De-ice kit                    |
| PROPELLER        | E4N00082KD         | HC-E4N-3G/D9390SK-1R/BULK/DEI     | 2               | A/C            | Prop dis-assembled for shipment with Polished Bulkhead & 102282-1 De-ice kit |
| BLADE            | D9390S-1R          | PCP:BLADE UNIT, ALUMINUM          | 4               | Prop           |  |
| BLADE            | D9390SK-1R         | PCP:BLADE UNIT, ALUM, 103880      | 4               | Prop           | Included with all prop assemblies  |
| SPINNER          | D-630-2            | SPINNER ASSEMBLY                  | 1               | Prop           | Unpolished Spinner Assembly  |
| SPINNER          | D-630-2P           | SPINNER ASSEMBLY                  | 1               | Prop           | Polished Spinner Assembly  |
| SPIN MTG KIT     | A-2070-7           | SCREW, 1/4-28, BUTTON HEAD        | 8               | Prop           | Spinner Mtg kit items  |
| COUNTERWEIGHT    | C-472-4            | PCP:COUNTERWEIGHT                 | 1               | Blade          | Blade Component  |
| DE-ICER          | 103880             | DE-ICE BOOT                       | 1               | Blade          | Supersedes 4H2271-10 & -12   |
| DE-ICE KIT PR    | 102282-1           | DE-ICE KIT (ONE PROP)             | 1               | Prop           | Superseded by 106298   |
| DE-ICE KIT PR    | 106298             | DE-ICE KIT (ONE PROP)             | 1               | Prop           | Supersedes 102282-1  |
| MTG BOLT/STUD    | B-3339-1           | BOLT, MOUNTING, 9/16-18, 12 POINT | 8               | Prop           | Included with prop assy.   |
| OVERHAUL KIT     | HC-E4N-3G-OH       | O/H KIT                           | 1               | Prop           | For aftermarket use only   |

# HARTZELL

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BEECH

IDS No.: 278 Rev.: 4 IC Date: 09/26/2017

**Model:** 300, 300LW  
**Trade Name:** SUPER KING AIR  
**Aircraft T.C./STC:** A24CE  
**Propeller Model:** HC-B4MP-3B  
**Propeller T.C.:** P56GL

**Modifier:**  
**Engine Model:** PT6A-60A  
**Power:** 1050 HP @ 1700 RPM  
**Placard/Restr:** Stabilized ground operation below 1050 RPM is prohibited except when propeller is feathered, operation at or below 400 RPM is permissible.

**Blade Model(s):** M10476  
M10476K  
M10476K\*1  
M10476NS  
M10476NSK  
M10476NSK\*1  
M10476SK\*1

**Notes:** Low Pitch Angle is approximate. Refer to Raytheon maintenance instructions for on-wing adjustment procedures.

**Prop Diameter:** 105.0" TO 104.0"

**Prop Setup:**

**Ref. Radius:** 42  
**Reverse Angle:** -14.0 +/-0.5  
**Low Pitch Angle:** 18.0 +/-0.1

**Startlock Angle:** NA  
**Feather/High Angle:** 79.5 +/-0.5  
**Cwt Angle:** Positive

**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:** WOODWARD

**Hartzell Approved Items:**

| Item Type                      | Item Number    | Description                    | Quantity | Qty Per | Comments   |
|--------------------------------|----------------|--------------------------------|----------|---------|--|
| PROPELLER                      | B4P10001       | HC-B4MP-3B/M10476NSK           | 2        | A/C     |  |
| PROPELLER                      | B4P10001KD     | HC-B4MP-3B/M10476NSK           | 2        | A/C     |  |
| PROPELLER                      | B4P10002       | HC-B4MP-3B/M10476NSK[*1]/BULK  | 0        |         |  |
| PROPELLER                      | B4P10002KD     | HC-B4MP-3B/M10476NSK[*1]/BULK  | 0        |         |  |
| PROPELLER                      | B4P10004       | HC-B4MP-3B/M10476NS            | 2        | A/C     | Prop with no de-ice boots, Note: De-icers must be installed before installing prop on aircraft.                                  |
| BLADE                          | M10476         | BLADE                          | 4        | Prop    |  |
| BLADE                          | M10476K        | BLADE, 4E2575-7 BOOT           | 4        | Prop    |  |
| BLADE                          | M10476K*1      | IDS*ITEM, BLADE,4E2575-10 BOOT | 4        | Prop    |  |
| BLADE                          | M10476NS       | PCP:BLADE UNIT, ALUMINUM       | 4        | Prop    | Blade with no de-ice boots, Note: De-icers must be installed before installing prop on aircraft.                                 |
| BLADE                          | M10476NSK      | PCP:BLADE UNIT, 4H2575-7       | 4        | Prop    |  |
| BLADE                          | M10476NSK*1    | PCP:BLADE UNIT, 4H2575-10      | 4        | Prop    |  |
| BLADE                          | M10476SK*1     | IDS ITEM, BLADE,4H2575-10 BOOT | 4        | Prop    | Not available for new production - original M10476K blade with 2575 - 10 boot restamped in the field to M10476SK per manual 133C |
| SPINNER                        | C-3425-3       | SPINNER ASSEMBLY               | 1        | Prop    |  |
| SPINNER                        | C-3425-3P      | SPINNER ASSEMBLY               | 1        | Prop    |  |
| SPIN MTG KIT                   | B-3384-4H      | BOLT, 1/4-28, HEX HEAD         | 12       | Prop    |  |
| SPIN MTG KIT                   | B-3808-4       | NUT,HEX,SELF-LOCKING           | 12       | Prop    |  |
| SPIN MTG KIT                   | B-3851-0463    | WASHER                         | 12       | Prop    |  |
| SP MT KIT DE-ICE               | A-2070-10      | SCREW, 1/4-28, BUTTON HEAD     | 12       | Prop    |  |
| SP MT KIT DE-ICE               | B-3808-4       | NUT,HEX,SELF-LOCKING           | 12       | Prop    |  |
| SP MT KIT DE-ICE               | B-3837-0432    | WASHER, CORROSION RESISTANT    | 12       | Prop    |  |
| SP MT KIT DE-ICE               | B-7077-52      | BELLEVILLE SPRING WASHER       | 24       | Prop    |  |
| COUNTERWEIGHT SLUG B-3345      |                | SLUG, COUNTERWEIGHT            | 1        | Blade   |  |
| COUNTERWEIGHT SLUG B-3386-14H  |                | BOLT,3/8-24,HEX HEAD           | 2        | Blade   |  |
| COUNTERWEIGHT SLUG B-3834-0632 |                | WASHER                         | 2        | Blade   |  |
| DE-ICER                        | 4H2575-7       | DE-ICE BOOT                    | 1        | Blade   | Supersedes 7931-4E2575-7   |
| DE-ICER                        | 7931-4E2575-10 | HOT PROP DE-ICER               | 1        | Blade   | Blade Component  |



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|               |               |                                   |   |      |   |
|---------------|---------------|-----------------------------------|---|------|---|
| DE-ICE KIT PR | 7931-67-060-1 | DEICE KIT(ONE PROP) BOOTS ONLY    | 1 | Prop |   |
| DE-ICE KIT PR | 7931-67-060-2 | DE-ICE KIT (ONE PROP)             | 1 | Prop | 4E2575-7 DEICER   |
| DE-ICE KIT PR | 7931-67-060-4 | DE-ICE KIT(ONE PROP),A-2070-10    | 1 | Prop | 4E2575-10 DEICER  |
| MTG BOLT/STUD | B-3339        | BOLT, MOUNTING, 9/16-18, 12 POINT | 8 | Prop |   |
| MISC ACCES    | A-3044        | BLOCK, BETA FEEDBACK- ASSEMBLY    | 1 | Prop |   |
| OVERHAUL KIT  | 67-060-4-OH   | DE-ICE O/H KIT, 4H2575-10 BOOT    | 1 | Prop | For aftermarket use only (this kit contains A-2070-10 screws) |
| OVERHAUL KIT  | HC-B4MP-3B-OH | O/H KIT                           | 1 | Prop | For aftermarket use only                                      |

### BEECH

**Model:** B300, B300C  
**Trade Name:** Super King Air  
**Aircraft T.C./STC:** A24CE  
**Propeller Model:** HC-E4A-3M  
**Propeller T.C.:** P10NE

**IDS No.:** 3011      **Rev.:** 4      **IC Date:** 07/27/2017

**Modifier:**  
**Engine Model:** PT6A-67A  
**Power:** 1050 HP @ 1700 RPM  
**Placard/Restr:** Stabilized ground operation is prohibited between 400 and 1050 RPM. The propeller may be operated when feathered at or below 400 RPM.

**Blade Model(s):** E10478SK  
**Prop Diameter:** 105"

**Notes:**

**Prop Setup:**

**Ref. Radius:** 42  
**Reverse Angle:** -14.0+0.5  
**Low Pitch Angle:** 17.1 +/- 0.1  
**Stud Protrusion**

**Startlock Angle:** n/a  
**Feather/High Angle:** 80.0+-0.5  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type     | Item Number | Description                    | Quantity | Qty Per | Comments  |
|---------------|-------------|--------------------------------|----------|---------|---|
| PROPELLER     | E4A00094    | HC-E4A-3M/E10478SK/BULK/DE-ICE | 2        | A/C     | CONFIGURED WITH REAR BULKHEAD & PROP SIDE DE-ICE      |
| PROPELLER     | E4A00095S   | HC-E4A-3M/E10478SK/103788P     | 2        | A/C     | De-iced prop with spinner                             |
| BLADE         | E10478SK    | PCP:BLADE UNIT, ALUMINUM       | 4        | Prop    |   |
| SPINNER       | 103788      | SPINNER ASSEMBLY               | 1        | Prop    | Buffed spinner (surface suitable for paint)           |
| SPINNER       | 103788P     | SPINNER ASSEMBLY               | 1        | Prop    | Polished spinner                                      |
| SPIN MTG KIT  | B-3384-2H   | BOLT, 1/4-28, HEX HEAD         | 8        | Prop    | Used on non de-iced propellers with bulkhead attached |
| SPIN MTG KIT  | B-3851-0432 | WASHER                         | 8        | Prop    | Used on non de-iced propellers with bulkhead attached |
| COUNTERWEIGHT | 101651      | PCP:COUNTERWEIGHT              | 1        | Blade   | Included with every prop on this IDS                  |
| DE-ICER       | 103771      | DE-ICE BOOT                    | 1        | Blade   | Included on every de-iced prop on this IDS            |
| DE-ICE KIT PR | 103794      | DE-ICE KIT (ONE PROP)          | 1        | Prop    | Included on every de-iced prop on this IDS            |
| MTG BOLT/STUD | B-3347      | BOLT,MOUNTING,9/16-18,12 POINT | 12       | Prop    | Included with every prop on this IDS                  |
| MISC ACCES    | A-3044      | BLOCK, BETA FEEDBACK- ASSEMBLY | 1        | Prop    | Included with every prop on this IDS                  |

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BEECH

**Model:** 300, 300LW, B300, B300C, B300C (MC-12W), B300C (UC-12W)

**Trade Name:**

**Aircraft T.C./STC:** SA02473SE

**Propeller Model:** HC-E4P-3K

**Propeller T.C.:** P10NE

**Blade Model(s):** E10479SK

**Prop Diameter:** 105"-104"

### Prop Setup:

**Ref. Radius:** 42

**Reverse Angle:** -14.0 +/- 0.5

**Low Pitch Angle:** 17.1 +/- 0.1

**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 3427      **Rev.:** 4      **IC Date:** 09/30/2019

**Modifier:** Raisbeck

**Engine Model:** PT6A-60A

**Power:** 1050 HP @ 1700 RPM

**Placard/Restr:** Avoid continuous ground operation between 400 and 1050 RPM. The propeller may operate below 400 RPM on the ground while feathered.

**Notes:**

**Startlock Angle:**

**Feather/High Angle:** 78.0 +/- 0.5

**Cwt Angle:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>               | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|----------------------------------|-----------------|----------------|-----------------|
| PROPELLER        | E4P00850S          | HC-E4P-3K/E10479SK/103784P       | 2               | A/C            |                 |
| PROPELLER        | E4P00850SKD        | HC-E4P-3K/E10479SK/103784P       | 2               | A/C            |                 |
| BLADE            | E10479SK           | PCP: BLADE UNIT, ALUMINUM        | 4               | Prop           |                 |
| SPINNER          | 103784             | SPINNER ASSEMBLY                 | 1               | Prop           |                 |
| SPINNER          | 103784P            | SPINNER ASSEMBLY                 | 1               | Prop           |                 |
| SP MT KIT DE-ICE | A-2070-11          | SCREW, 1/4-28, BUTTON HEAD       | 8               | Prop           |                 |
| COUNTERWEIGHT    | D-6021-4           | PCP: COUNTERWEIGHT               | 1               | Blade          |                 |
| DE-ICER          | 106453             | DE-ICE BOOT                      | 1               | Blade          |                 |
| DE-ICE KIT PR    | 106416             | DE-ICE KIT (ONE PROP)            | 1               | Prop           |                 |
| MTG BOLT/STUD    | C-6006             | NUT, MOUNTING, 9/16-18, 12 POINT | 8               | Prop           |                 |
| MISC ACCES       | A-3044             | BLOCK, BETA FEEDBACK- ASSEMBLY   | 1               | Prop           |                 |

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**BEECH**

IDS No.: 2777      Rev.: 3      IC Date: 08/15/2022

**Model:** 35-  
C33A,36,A36,E33A,E33C,F33C,G33,S35,V3  
5,V35A,V35B

**Modifier:** HAMMOCK AVIATION SERVICES

**Trade Name:** BONANZA  
**Aircraft T.C./STC:** SA09619SC  
**Propeller Model:** PHC-C3YF-1RF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** F8068  
**Prop Diameter:** 82"-78"

**Engine Model:** IO-550-B  
**Power:** 300 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** 12.0 +-0.2  
**Stud Protrusion** 1.450 +-0.030

**Startlock Angle:**  
**Feather/High Angle:** 33.0 +-1.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>           | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>                             |
|------------------|--------------------|------------------------------|-----------------|----------------|---|
| PROPELLER        | C3F00012           | PHC-C3YF-1RF/F8068/SM30      | 1               | A/C            |   |
| PROPELLER        | C3F00012KD         | PHC-C3YF-1RF/F8068/SM30      | 1               | A/C            |   |
| BLADE            | F8068              | PCP:BLADE UNIT, ALUM [1,1,5] | 3               | Prop           |   |
| SPINNER          | A-2295-1           | SPINNER ASSEMBLY             | 1               | A/C            |   |
| SPINNER          | A-2295-1P          | SPINNER ASSEMBLY             | 1               | A/C            |   |
| SPIN MTG KIT     | A-2476-30          | SPINNER - MTG KIT            | 1               | Prop           |   |
| MTG BOLT/STUD    | A-2429-4           | STUD, MOUNTING, 1/2-20       | 6               | Prop           | Use w/E-7154-2R Hub Only                    |
| MTG BOLT/STUD    | A-2429-7           | STUD, MOUNTING, 1/2-20       | 6               | Prop           | Use with E-7154-12R or E-7154-42R Hubs Only |
| OVERHAUL KIT     | PHC-C3YF-1RF*1     | O/H KIT W/O SLIMSERTS        | 1               | Prop           | For aftermarket use only                    |
| OVERHAUL KIT     | PHC-C3YF-1RF-OH    | O/H KIT                      | 1               | Prop           | For aftermarket use only                    |

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**BEECH**

**Model:** B300, B300C  
**Trade Name:** SUPER KING AIR 350 c  
**Aircraft T.C./STC:** A24CE  
**Propeller Model:** HC-B4MP-3C  
**Propeller T.C.:** P56GL

**IDS No.:** 279      **Rev.:** 12      |      **Date:** 02/16/2022

**Modifier:**  
**Engine Model:** PT6A-60A  
**Power:** 1050 HP @ 1700 RPM  
**Placard/Restr:** Stabilized ground operation below, 1050 RPM is prohibited except when propeller is feathered, operation at or below 400 RPM is permissible. See Manual 133C for blade shot peen instructions.

**Blade Model(s):** M10476K\*1  
M10476NK\*1  
M10476NSK\*1  
**Prop Diameter:** 105.0" TO 104.0"

**Notes:** Fit one A-3044 Carbon Block Assembly per customer request. Propeller to be shipped with A-880-1 nut installed per Manual 118F; 67-060-4ALT DEICE KIT (4H2575-10) PREFERRED. Low pitch angle is approximate. Refer to Raytheon maintenance instructions for on-wing adjustment procedure

**Prop Setup:**

**Ref. Radius:** 42  
**Reverse Angle:** -14.0 +-0.5  
**Low Pitch Angle:** 15.4 +-0.1  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 80.0 +-0.5  
**Cwt Angle:** Positive

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:** WOODWARD

**Hartzell Approved Items:**

| Item Type | Item Number  | Description                    | Quantity | Qty Per | Comments  |
|-----------|--------------|--------------------------------|----------|---------|---|
| PROPELLER | B4P10012S    | HC-B4MP-3C/M10476NSK*1/D5519-P | 2        | A/C     | De-iced prop with D-5519-P spinner  |
| PROPELLER | B4P10012S1   | HC-B4MP-3C/M10476NSK*1/5519-1P | 2        | A/C     | De-iced prop with D-5519-1P spinner   |
| PROPELLER | B4P10012S1KD | HC-B4MP-3C/M10476NSK*1/5519-1P | 2        | A/C     | De-iced prop with D-5519-1P spinner, dis-assembled for shipment                                     |
| PROPELLER | B4P10012S2   | HC-B4MP-3C/M10476NSK*1/5519-2P | 2        | A/C     | De-iced prop with D-5519-2P spinner   |
| PROPELLER | B4P10012S2KD | HC-B4MP-3C/M10476NSK*1/5519-2P | 2        | A/C     | De-iced prop with D-5519-2P spinner, dis-assembled for shipment                                     |
| PROPELLER | B4P10014     | HC-B4MP-3C/M10476NSK[*1]/BULK  | 2        | A/C     | De-iced prop, includes bulkhead for D-5519-1P spinner (dome not included)                           |
| PROPELLER | B4P10014KD   | HC-B4MP-3C/M10476NSK[*1]/BULK  | 2        | A/C     | Prop with D-5521-1P Polished Bulkhead & 7931-67-060-4AL De-ice kit, Prop dis-assembled for shipment |
| PROPELLER | B4P10015     | HC-B4MP-3C/M10476NSK[*1]       | 2        | A/C     | Basic prop. De-ice kit not included, however blades include de-ice boots. Spinner not included.     |
| PROPELLER | B4P10015KD   | HC-B4MP-3C/M10476NSK[*1]       | 2        | A/C     | Same as B4P10015 except dis-assembled for shipment  |
| PROPELLER | B4P10016     | HC-B4MP-3C/M10476NK[*1]        | 2        | A/C     |   |
| PROPELLER | B4P10017     | HC-B4MP-3C/M10476NSK[*1]/BLKHD | 2        | A/C     | Same as B4P10012S2 except less spinner dome   |
| PROPELLER | B4P10017KD   | HC-B4MP-3C/M10476NSK[*1]/BULK  | 2        | A/C     |   |
| PROPELLER | B4P10018KD   | HC-B4MP-3C/M10476NSK[*1]/BULK  | 2        | A/C     | De-Iced prop, includes bulkhead for D-5519-P spinner (dome not included)                            |
| BLADE     | M10476K*1    | IDS*ITEM, BLADE,4E2575-10 BOOT | 4        | Prop    | Inactive for new production   |
| BLADE     | M10476NK*1   | M10476N BLADE, 4E2575-10 BOOT  | 4        | Prop    |   |
| BLADE     | M10476NSK*1  | PCP:BLADE UNIT, 4H2575-10      | 4        | Prop    | Blade with de-ice boot  |
| SPINNER   | D-5519-1     | SPINNER ASSEMBLY               | 1        | Prop    | Buffed spinner, synchrophaser designed with target 5 degrees off blade centerline                   |
| SPINNER   | D-5519-1P    | SPINNER ASSEMBLY               | 1        | Prop    | Polished spinner, synchrophaser designed with target 5 degrees off blade centerline                 |

|                                |                 |                                   |    |       |   |
|--------------------------------|-----------------|-----------------------------------|----|-------|---|
| SPINNER                        | D-5519-2        | SPINNER ASSEMBLY                  | 1  | Prop  | Buffed spinner, "Quiet" synchrophaser designed such that RH and LH prop targets can be 22.5 degrees apart   |
| SPINNER                        | D-5519-2P       | SPINNER ASSEMBLY                  | 1  | Prop  | Polished spinner, "Quiet" synchrophaser designed such that RH and LH prop targets can be 22.5 degrees apart |
| SPINNER                        | D-5519-P        | SPINNER ASSEMBLY                  | 1  | Prop  | Polished spinner, synch designed to be synchronized (but not phased)  |
| SPIN MTG KIT                   | B-3384-4H       | BOLT, 1/4-28, HEX HEAD            | 12 | Prop  | Included with non de-iced props   |
| SPIN MTG KIT                   | B-3808-4        | NUT,HEX,SELF-LOCKING              | 12 | Prop  | Included with non de-iced props   |
| SPIN MTG KIT                   | B-3851-0463     | WASHER                            | 12 | Prop  | Included with non de-iced props   |
| SP MT KIT DE-ICE               | A-2070-10       | SCREW, 1/4-28, BUTTON HEAD        | 12 | Prop  | Included in 7931-67-060-4 prop side de-ice kit  |
| SP MT KIT DE-ICE               | B-3808-4        | NUT,HEX,SELF-LOCKING              | 12 | Prop  | Included in 7931-67-060-4(AL) prop side de-ice kit  |
| SP MT KIT DE-ICE               | B-7077-52       | BELLEVILLE SPRING WASHER          | 24 | Prop  | Included in all prop side de-ice kits on this IDS   |
| COUNTERWEIGHT SLUG B-3345      |                 | SLUG, COUNTERWEIGHT               | 1  | Blade | Included with every propeller on this IDS   |
| COUNTERWEIGHT SLUG B-3386-14H  |                 | BOLT,3/8-24,HEX HEAD              | 2  | Blade | Included with every propeller on this IDS   |
| COUNTERWEIGHT SLUG B-3834-0632 |                 | WASHER                            | 2  | Blade | Included with every propeller on this IDS   |
| DE-ICER                        | 4H2575-10       | DE-ICE BOOT                       | 1  | Blade | Supersedes 7931-4E2575-10   |
| DE-ICE KIT PR                  | 7931-67-060-4AL | DE-ICE KIT(ONE PROP), A-2070-7    | 1  | Prop  | Included with de-iced props   |
| MTG BOLT/STUD                  | B-3339          | BOLT, MOUNTING, 9/16-18, 12 POINT | 8  | Prop  | Included with every propeller on this IDS   |
| MISC ACCES                     | A-3044          | BLOCK, BETA FEEDBACK- ASSEMBLY    | 1  | Prop  | Included with every propeller on this IDS   |
| OVERHAUL KIT                   | 67-060-4AL-OH   | DE-ICE O/H KIT, 4H2575-10 BOOT    | 1  | Prop  | For aftermarket use only  |
| OVERHAUL KIT                   | HC-B4MP-3C-OH   | O/H KIT                           | 1  | Prop  | For aftermarket use only  |

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**BEECH**

**Model:** 1900C  
**Trade Name:** 1900 AIRLINER  
**Aircraft T.C./STC:** A24CE  
**Propeller Model:** HC-B4MP-3A  
**Propeller T.C.:** P56GL  
  
**Blade Model(s):** M10877K  
**Prop Diameter:** 109.5" NO CUT OFF

**IDS No.:** 280      **Rev.:** 4      **IC Date:** 01/07/2021

**Modifier:**  
**Engine Model:** PT6A-65B  
**Power:** 1100 HP @ 1700 RPM  
**Placard/Restr:** The beta valve must automatically reset to a low pitch angle of 7.0 +-1.0 deg (at 42 in. Radius) after landing touchdown.  
  
**Notes:** 67-340-1 deice kit consists of 8 boots only. 67-340-2 consists of everything but boots for 2 props. 67-340-5 is complete heavy duty kit for 2 props. \* Include (1) A-3044 fitted; Low Pitch Angle is approximate. Refer to Raytheon maintenance instructions for on-wing adjustment procedures.

**Prop Setup:**

**Ref. Radius:** 42  
**Reverse Angle:** -14.0 +-0.5  
**Low Pitch Angle:** 18.0 +-0.1  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 80.0 +-0.5  
**Cwt Angle:** 2.0 +-1.0

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u>               | <u>Item Number</u> | <u>Description</u>                | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>   |
|--------------------------------|--------------------|-----------------------------------|-----------------|----------------|---|
| PROPELLER                      | B4P00004           | HC-B4MP-3A/M10877K                | 2               | A/C            |   |
| PROPELLER                      | B4P00004S          | HC-B4MP-3A/M10877K/D4846-P        | 2               | A/C            |   |
| PROPELLER                      | B4P00004SKD        | HC-B4MP-3A/M10877K/D4846-P        | 2               | A/C            | Same as B4P00004S except shipped with blades removed from hub |
| BLADE                          | M10877K            | PCP:BLADE ASSEMBLY, COMPOSITE     | 4               | Prop           |   |
| SPINNER                        | D-4846             | IDS Item                          | 1               | Prop           |   |
| SPINNER                        | D-4846-P           | SPINNER ASSEMBLY                  | 1               | Prop           |   |
| SP MT KIT DE-ICE               | A-2070-7           | SCREW, 1/4-28, BUTTON HEAD        | 12              | Prop           |   |
| SP MT KIT DE-ICE               | B-3808-4           | NUT,HEX,SELF-LOCKING              | 12              | Prop           |   |
| SP MT KIT DE-ICE               | B-3837-0432        | WASHER, CORROSION RESISTANT       | 12              | Prop           |   |
| SP MT KIT DE-ICE               | B-7077-52          | BELLEVILLE SPRING WASHER          | 24              | Prop           |   |
| COUNTERWEIGHT SLUG A-890       |                    | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          |   |
| COUNTERWEIGHT SLUG B-3384-7H   |                    | BOLT, 1/4-28, HEX HEAD            | 2               | Blade          |   |
| COUNTERWEIGHT SLUG B-3386-14H  |                    | BOLT,3/8-24,HEX HEAD              | 2               | Blade          |   |
| COUNTERWEIGHT SLUG B-3663-1    |                    | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          |   |
| COUNTERWEIGHT SLUG B-3834-0632 |                    | WASHER                            | 2               | Blade          |   |
| DE-ICER                        | 4H2560-10          | DE-ICE BOOT                       | 1               | Blade          | Supersedes 7931-4E2560-10                                     |
| DE-ICE KIT PR                  | 7931-67-340-2      | DE-ICE KIT                        | 1               | Prop           | KIT FOR 2 PROPS LESS DE-ICERS                                 |
| DE-ICE KIT PR                  | 7931-67-340-5      | DE-ICE KIT                        | 1               | Prop           | COMPLETE KIT FOR 2 PROPS, HEAV                                |
| MTG BOLT/STUD                  | B-3339             | BOLT, MOUNTING, 9/16-18, 12 POINT | 8               | Prop           |   |
| OVERHAUL KIT                   | 67-340-5-OH        | DE-ICE O/H KIT, 4H2560-10 BOOT    | 1               | Prop           | For aftermarket use only                                      |
| OVERHAUL KIT                   | HC-B4MP-3A-OH      | O/H KIT                           | 1               | Prop           | For aftermarket use only                                      |

# HARTZELL

## APPLICATION GUIDE 159

**BEECH**

IDS No.: 281      Rev.: 1      D      Date: 02/01/2011

**Model:** 1900D  
**Trade Name:** AIRLINER  
**Aircraft T.C./STC:** A24CE  
**Propeller Model:** HC-E4A-3A  
**Propeller T.C.:** P10NE  
  
**Blade Model(s):** E10950K  
**Prop Diameter:** 110.0" NO CUT OFF

**Modifier:**  
**Engine Model:** PT6A-67D  
**Power:** 1280 HP @ 1700 RPM  
**Placard/Restr:** Stabilized ground operation is prohibited between 400 and 950 RPM and between 1250 and 1395 RPM.  
  
**Notes:** HC-E4A-3A is superceded by HC-E4A-3I; Low pitch angle is approximate. Refer to Raytheon maintenance instructions for on-wing adjustment procedures.

**Prop Setup:**

**Ref. Radius:** 42  
**Reverse Angle:** -14.5 +-0.5  
**Low Pitch Angle:** 18.6 +-0.1  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 79.0 +-0.5  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type                   | Item Number   | Description                    | Quantity | Qty Per | Comments  |
|-----------------------------|---------------|--------------------------------|----------|---------|---|
| PROPELLER                   | E4A00020      | HC-E4A-3A/E10950K              | 2        | A/C     | Prop Assy. includes 7931-67-680-3 de-ice kit, blade includes 4H3017-1 boot, E4A0020 is no longer in production, superseded by E4A00120 on IDS 1076    |
| PROPELLER                   | E4A00020S     | HC-E4A-3A/E10950K/D-5547-P     | 2        | A/C     | Prop. Assy. incl. 7931-67-680-3 kit & D-5547-P Spin. Blade incl. 4H3017-1 boot, E4A0020S is no longer in production, superseded by E4A00120S IDS 1076 |
| BLADE                       | E10950K       | BLADE ASSEMBLY, COMPOSITE      | 4        | Prop    | Includes D-5117-1 Cwt & 4H3017-1 Boot. E10950K no longer in production, superseded by E10950PCK   |
| SPINNER                     | D-5547-P      | SPINNER ASSEMBLY               | 1        | Prop    | Polished Spinner Assembly   |
| SP MT KIT DE-ICE            | A-2070-10     | SCREW, 1/4-28, BUTTON HEAD     | 8        | Prop    | Included in Prop side De-ice Kit  |
| COUNTERWEIGHT               | D-5117-1      | PCP:CLAMP, COUNTERWEIGHT       | 1        | Blade   | Blade Component   |
| COUNTERWEIGHT SLUG A-1744   |               | BOLT,3/8-24,HEX HEAD           | 2        | Blade   | Included in Propeller Assembly  |
| COUNTERWEIGHT SLUG A-2043-1 |               | NUT,3/8-24,HEX,SELF-LOCKING    | 2        | Blade   | Included in Propeller Assembly  |
| COUNTERWEIGHT SLUG C-5128   |               | PCP:SLUG, COUNTERWEIGHT        | 2        | Blade   | Blade Component   |
| DE-ICER                     | 4H3017-1      | DE-ICE BOOT                    | 1        | Blade   | Blade Component, Supersedes 7931-4E3017-1   |
| DE-ICE KIT PR               | 7931-67-680-1 | DE-ICE KIT (ONE PROP)          | 1        | Prop    | Superseded by 7931-67-680-2   |
| DE-ICE KIT PR               | 7931-67-680-3 | DE-ICE KIT (ONE PROP)          | 1        | Prop    | Prop side de-ice kit used in conjunction with 4H3017-1 Boot   |
| DE-ICE KIT A/F              | 7931-67-680-2 | IDS Item                       | 1        | A/C     | IDS Item  |
| DE-ICE KIT A/F              | 7931-67-680-4 | IDS Item                       | 1        | A/C     | IDS Item  |
| MTG BOLT/STUD               | B-3347        | BOLT,MOUNTING,9/16-18,12 POINT | 12       | Prop    | Included in Propeller Assembly  |
| MISC ACCES                  | A-3044        | BLOCK, BETA FEEDBACK- ASSEMBLY | 1        | Prop    | Included in Propeller Assembly  |

# HARTZELL

## APPLICATION GUIDE

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**BEECH**

IDS No.: 1076 Rev.: 3 IC Date: 08/14/2015

**Model:** 1900D  
**Trade Name:** AIRLINER  
**Aircraft T.C./STC:** A24CE  
**Propeller Model:** HC-E4A-3I  
**Propeller T.C.:** P10NE  
  
**Blade Model(s):** E10950PB  
 E10950PCB  
 E10950PCK  
 E10950PK  
**Prop Diameter:** 110.0" NO CUT OFF

**Modifier:**  
**Engine Model:** PT6A-67D  
**Power:** 1279 HP @ 1700 RPM  
**Placard/Restr:** Stabilized ground operation is prohibited between 400 and 950 RPM and between 1250 and 1395 RPM.  
  
**Notes:** 67-680-5 & 67-680-4 are improved heavy duty deice kits; HC-E4A-3I IS SUPERCEDED BY HC-E4A-3J; In regards to blades: E10950PB, E10950PCB & E10950PCK - Not original equipment, these blades made eligible by AC Type Cert. #A24CE; Low pitch angle is approximate. Refer to Raytheon maintenance instructions for on-wing adjustment procedures. Refer to Manual 147 for Airworthiness Limitations.

**Prop Setup:**

**Ref. Radius:** 42  
**Reverse Angle:** -14.5 +-0.5  
**Low Pitch Angle:** 18.6 +-0.1  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 79.0 +-0.5  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:** NA

**Hartzell Approved Items:**

| Item Type                   | Item Number | Description                    | Quantity | Qty Per | Comments  |
|-----------------------------|-------------|--------------------------------|----------|---------|---|
| PROPELLER                   | E4A00120    | HC-E4A-3I/E10950PK             | 2        | A/C     | Prop Assy, incl 7931-67-680-5 kit, blade incl 4H3017-1 boot, E4A00120 is no longer in production, superseded by E4A00132(KD) & E4A00133 on IDS1705  |
| PROPELLER                   | E4A00120S   | HC-E4A-3I/E10950PK/D-5547-P    | 2        | A/C     | Prop Assy, incl 7931-67-680-5 kit, blade incl 4H3017-1 boot, E4A00120S is no longer in production, superseded by E4A00132(KD) & E4A00133 on IDS1705 |
| BLADE                       | E10950PB    | BLADE ASSEMBLY, COMPOSITE      | 4        | Prop    | See Notes, E10950P with D-5117-1 Clamp, Cwt and 7931-4H3400-1 Boot, E10950PB no longer in production, superseded by E10950PCB.                      |
| BLADE                       | E10950PCB   | PCP:BLADE ASSY, COMP, 4H3400-1 | 4        | Prop    | See Notes, E10950P with E-7016 Clamp, Cwt & 4H3400-1 Boot   |
| BLADE                       | E10950PCK   | PCP:BLADE ASSY, COMP, 4H3017-1 | 4        | Prop    | See Notes, E10950P with E-7016 Clamp, Cwt & 4H3017-1 Boot   |
| BLADE                       | E10950PK    | BLADE ASSEMBLY, COMPOSITE      | 4        | Prop    | E10950P with D-5117-1 Cwt & 7931-4H3017-1 Boot  |
| SPINNER                     | D-5547-P    | SPINNER ASSEMBLY               | 1        | Prop    | Polished Spinner Assembly   |
| SPIN MTG KIT                | A-2070-10   | SCREW, 1/4-28, BUTTON HEAD     | 8        | Prop    | Included in Prop side De-ice Kit  |
| COUNTERWEIGHT               | D-5117-1    | PCP:CLAMP, COUNTERWEIGHT       | 1        | Blade   | Blade Component   |
| COUNTERWEIGHT SLUG A-1744   |             | BOLT, 3/8-24, HEX HEAD         | 2        | Blade   | Included in Propeller Assembly  |
| COUNTERWEIGHT SLUG A-2043-1 |             | NUT, 3/8-24, HEX, SELF-LOCKING | 2        | Blade   | Included in Propeller Assembly  |
| COUNTERWEIGHT SLUG C-6551   |             | PCP:SLUG, COUNTERWEIGHT        | 1        | Blade   | Included in Propeller Assembly  |
| COUNTERWEIGHT SLUG C-6551-1 |             | PCP: SLUG, COUNTERWEIGHT       | 1        | Blade   | Included in Propeller Assembly  |
| DE-ICER                     | 4H3017-1    | DE-ICE BOOT                    | 1        | Blade   | Blade component, Supersedes 7931-4E3017-1   |
| DE-ICER                     | 4H3400-1    | DE-ICE BOOT                    | 1        | Blade   | Blade component, Supersedes 7931-4E3400-1   |



|               |                |                                |    |      |  |
|---------------|----------------|--------------------------------|----|------|--|
| DE-ICE KIT PR | 7931-67-680-5  | DE-ICE KIT (ONE PROP)          | 1  | Prop | Prop side de-ice kit in conjunction with 4E3017-1 Boot             |
| MTG BOLT/STUD | B-3347         | BOLT,MOUNTING,9/16-18,12 POINT | 12 | Prop | Included in Propeller Assembly                                     |
| MISC ACCES    | A-3044         | BLOCK, BETA FEEDBACK- ASSEMBLY | 1  | Prop | Included in Propeller Assembly                                     |
| OVERHAUL KIT  | 67-680-5-OH    | DE-ICE O/H KIT, 4H3017-1 BOOT  | 1  | Prop | For aftermarket use only   |
| OVERHAUL KIT  | HC-E4A-3I-OH   | O/H KIT,(PK,PB) BLADE SUFFIX   | 1  | Prop | For aftermarket use only(OH KIT FOR PROPS W/ 2-BOLT COUNTERWEIGHT) |
| OVERHAUL KIT  | HC-E4A-3I-OH*1 | O/H KIT,PC(K,B) BLADE SUFFIX   | 1  | Prop | For aftermarket use only(OH KIT FOR PROPS W/ 4-BOLT COUNTERWEIGHT) |
| OVERHAUL KIT  | HC-E4A-3I-OH*2 | O/H KIT,P(K,B)PC(K,B) BLADE    | 1  | Prop | For aftermarket use only(2 EA 2-BOLT CLAMPS & 2 EA 4-BOLT CLAMPS)  |

# HARTZELL

## APPLICATION GUIDE

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BEECH

IDS No.: 1447 Rev.: 3 IC Date: 08/14/2015

**Model:** 1900D  
**Trade Name:** AIRLINER  
**Aircraft T.C./STC:** A24CE  
**Propeller Model:** HC-E4A-3J  
**Propeller T.C.:** P10NE

**Modifier:**  
**Engine Model:** PT6A-67D  
**Power:** 1279 HP @ 1700 RPM  
**Placard/Restr:** Stabilized ground operation is prohibited between 400 and 950 RPM and between 1250 and 1395 RPM.

**Blade Model(s):** E10950PB  
 E10950PCB  
 E10950PCK  
 E10950PK  
**Prop Diameter:** 110.0" NO CUT OFF

**Notes:** 67-680-5 & 67-680-4 are improved heavy duty deice kits; Superseded by 4-bolt counterweight clamp design (blades with "C" suffix) See IDS #1705; In regards to E10950PB, E10950PCB & E10950PCK - Not original equipment, these blades made eligible by AC Type Cert. #A24CE; Low pitch angle is approximate. Refer to Raytheon maintenance instructions for on-wing adjustment procedures. Refer to Manual 147 for Airworthiness Limitations.

### Prop Setup:

**Ref. Radius:** 42  
**Reverse Angle:** -14.5 +/-0.5  
**Low Pitch Angle:** 18.6 +/-0.1  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 79.0 +/-0.5  
**Cwt Angle:**

### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| Item Type                   | Item Number   | Description                    | Quantity | Qty Per | Comments   |
|-----------------------------|---------------|--------------------------------|----------|---------|--|
| PROPELLER                   | E4A00126      | HC-E4A-3J/E10950PK/BLKHD.ONLY  | 2        | A/C     | Propeller Assembly, includes 7931-67-680-5 de-ice kit, blade includes 4H3017-1 boot, E4A00126 is no longer in production, superseded by E4A00133       |
| PROPELLER                   | E4A00126S     | HC-E4A-3J/E10950PK/D-5547-P    | 2        | A/C     | Prop Assy, incl. 7931-67-680-5 de-ice kit and D-5547-P Spinner. Blade includes 4H3017-1 boot, E4A00126S is no longer in prod., superseded by E4A00133S |
| BLADE                       | E10950PB      | BLADE ASSEMBLY, COMPOSITE      | 4        | Prop    | See Notes, E10950P with 7931-4H3400-1 Boot E10950PB no longer in production, superseded by E10950PCB   |
| BLADE                       | E10950PCB     | PCP:BLADE ASSY, COMP,4H3400-1  | 4        | Prop    | See Notes, E10950P with E-7016 Cwt & 4H3400-1 Boot   |
| BLADE                       | E10950PCK     | PCP:BLADE ASSY, COMP, 4H3017-1 | 4        | Prop    | See Notes, E10950P with E-7016 Cwt & 4H3017-1 Boot   |
| BLADE                       | E10950PK      | BLADE ASSEMBLY, COMPOSITE      | 4        | Prop    | E10950P with D-5117-1 Cwt & 4H3017-1 Boot  |
| SPINNER                     | D-5547-P      | SPINNER ASSEMBLY               | 1        | Prop    | Polished Spinner Assembly  |
| SP MT KIT DE-ICE            | A-2070-10     | SCREW, 1/4-28, BUTTON HEAD     | 8        | Prop    | Included in Prop side De-ice Kit   |
| COUNTERWEIGHT               | D-5117-1      | PCP:CLAMP, COUNTERWEIGHT       | 1        | Blade   | Blade Component  |
| COUNTERWEIGHT SLUG A-1744   |               | BOLT,3/8-24,HEX HEAD           | 2        | Blade   | Included in Propeller Assembly   |
| COUNTERWEIGHT SLUG A-2043-1 |               | NUT,3/8-24,HEX,SELF-LOCKING    | 2        | Blade   | Included in Propeller Assembly   |
| COUNTERWEIGHT SLUG C-6551   |               | PCP:SLUG, COUNTERWEIGHT        | 1        | Blade   | Included in Propeller Assembly   |
| COUNTERWEIGHT SLUG C-6551-1 |               | PCP: SLUG, COUNTERWEIGHT       | 1        | Blade   | Included in Propeller Assembly   |
| DE-ICER                     | 4H3017-1      | DE-ICE BOOT                    | 1        | Blade   | Supersedes 7931-4E3017-1   |
| DE-ICER                     | 4H3400-1      | DE-ICE BOOT                    | 1        | Blade   | Supersedes 7931-4E3400-1   |
| DE-ICE KIT PR               | 7931-67-680-5 | DE-ICE KIT (ONE PROP)          | 1        | Prop    | Prop side de-ice kit used in conjunction with 4E3017-1 Boot  |
| MTG BOLT/STUD               | B-3347        | BOLT,MOUNTING,9/16-18,12 POINT | 12       | Prop    | Included in Propeller Assembly   |
| MISC ACCES                  | A-3044        | BLOCK, BETA FEEDBACK- ASSEMBLY | 1        | Prop    | Included in Propeller Assembly   |
| OVERHAUL KIT                | 67-680-5-OH   | DE-ICE O/H KIT, 4H3017-1 BOOT  | 1        | Prop    | For aftermarket use only   |

# HARTZELL

## APPLICATION GUIDE

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**BEECH**

IDS No.: 1521 Rev.: 1 IC Date: 08/14/2015

**Model:** 1900D  
**Trade Name:** AIRLINER  
**Aircraft T.C./STC:** A24CE  
**Propeller Model:** HC-E4A-3J  
**Propeller T.C.:** P10NE  
  
**Blade Model(s):** E10950PB  
**Prop Diameter:** 110.0" NO CUT OFF

**Modifier:**  
**Engine Model:** PT6A-67D  
**Power:** 1279 HP @ 1700 RPM  
**Placard/Restr:** Stabilized ground operation is prohibited between 400 and 950 RPM and between 1250 and 1395 RPM.  
  
**Notes:** 67-680-6 is improved low watt density system; Superseded by 4-bolt counterweight clamp design (blades with "C" suffix) See IDS #1705; Low pitch angle is approximate. Refer to Raytheon maintenance instructions for on-wing adjustment procedures.

**Prop Setup:**

**Ref. Radius:** 42  
**Reverse Angle:** -14.5 +/-0.5  
**Low Pitch Angle:** 18.6 +/-0.1  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 79.0 +/-0.5  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type                   | Item Number   | Description                    | Quantity | Qty Per | Comments                 |
|-----------------------------|---------------|--------------------------------|----------|---------|--------------------------|
| PROPELLER                   | E4A00127      | HC-E4A-3J/E10950PB/BLKHD.ONLY  | 2        | A/C     |                          |
| PROPELLER                   | E4A00127S     | HC-E4A-3J/E10950PB/D-5547-P    | 2        | A/C     |                          |
| BLADE                       | E10950PB      | BLADE ASSEMBLY, COMPOSITE      | 4        | Prop    |                          |
| SPINNER                     | D-5547-P      | SPINNER ASSEMBLY               | 1        | Prop    |                          |
| SP MT KIT DE-ICE            | A-2070-10     | SCREW, 1/4-28, BUTTON HEAD     | 8        | Prop    |                          |
| COUNTERWEIGHT               | D-5117-1      | PCP:CLAMP, COUNTERWEIGHT       | 1        | Blade   |                          |
| COUNTERWEIGHT SLUG A-1744   |               | BOLT,3/8-24,HEX HEAD           | 2        | Blade   |                          |
| COUNTERWEIGHT SLUG A-2043-1 |               | NUT,3/8-24,HEX,SELF-LOCKING    | 2        | Blade   |                          |
| COUNTERWEIGHT SLUG C-6551   |               | PCP:SLUG, COUNTERWEIGHT        | 1        | Blade   |                          |
| COUNTERWEIGHT SLUG C-6551-1 |               | PCP: SLUG, COUNTERWEIGHT       | 1        | Blade   |                          |
| DE-ICER                     | 4H3400-1      | DE-ICE BOOT                    | 1        | Blade   | Supercedes 7931-4E3400-1 |
| DE-ICE KIT PR               | 7931-67-680-6 | DE-ICE KIT (ONE PROP)          | 1        | Prop    |                          |
| MTG BOLT/STUD               | B-3347        | BOLT,MOUNTING,9/16-18,12 POINT | 12       | Prop    |                          |
| MISC ACCES                  | A-3044        | BLOCK, BETA FEEDBACK- ASSEMBLY | 1        | Prop    |                          |
| OVERHAUL KIT                | 67-680-6-OH   | DE-ICE O/H KIT, 4H3400-1 BOOT  | 1        | Prop    | For aftermarket use only |

# HARTZELL

## APPLICATION GUIDE

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**BEECH**

IDS No.: 1705 Rev.: 4 IC Date: 08/14/2015

**Model:** 1900D  
**Trade Name:** AIRLINER  
**Aircraft T.C./STC:** A24CE  
**Propeller Model:** HC-E4A-3J  
**Propeller T.C.:** P10NE  
  
**Blade Model(s):** E10950PCB  
E10950PCK  
**Prop Diameter:** 110.0" NO CUT OFF

**Modifier:**  
**Engine Model:** PT6A-67D  
**Power:** 1279 HP @ 1700 RPM  
**Placard/Restr:** Stabilized ground operation is prohibited between 400 and 950 RPM and between 1250 and 1395 RPM.  
  
**Notes:** 67-680-6 is improved low watt density system; Latest configuration is HC-E4A-3J/E10950PCB (DEC. '03); Low pitch angle is approximate. Refer to Raytheon maintenance instructions for on-wing adjustment procedures. Refer to Manual 147 for Airworthiness Limitations.

### Prop Setup:

**Ref. Radius:** 42  
**Reverse Angle:** -14.5 +-0.5  
**Low Pitch Angle:** 18.6 +-0.1  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 79.0 +-0.5  
**Cwt Angle:**

### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| Item Type                   | Item Number   | Description                    | Quantity | Qty Per | Comments  |
|-----------------------------|---------------|--------------------------------|----------|---------|---|
| PROPELLER                   | E4A00132      | HC-E4A-3J/E10950PCB/BULK/DEICE | 2        | A/C     | Propeller Assembly, includes D-5549 P Bulkhead 7931-67-680-6 de-ice kit, blade includes 4H3400-1 boot                                       |
| PROPELLER                   | E4A00132KD    | HC-E4A-3J/E10950PCB/BULK/DEICE | 2        | A/C     | Propeller Assembly, includes D-5549 P Bulkhead, 7931-67-680-6 de-ice kit and Blade includes 4H3400-1 boot , knocked down for shipment       |
| PROPELLER                   | E4A00132S     | HC-E4A-3J/E10950PCB/D-5547-P   | 2        | A/C     | Propeller Assembly includes D-5547-P Spin. 7931-67-680-6 de-ice kit, Blade includes 4H3400-1 boot   |
| PROPELLER                   | E4A00132SKD   | HC-E4A-3J/E10950PCB/D-5547-P   | 2        | A/C     | E4A00132S Propeller Assy, includes D-5547-P Spinner Assy, 7931-67-680-6 de-ice kit, Blade includes 4H3400-1 boot, knocked down for shipment |
| PROPELLER                   | E4A00133      | HC-E4A-3J/E10950PCK/BULK/DEICE | 2        | A/C     | Propeller Assembly, includes D-5549 P Bulkhead 7931-67-680-5 de-ice kit, Blade includes 4H3017-1 boot                                       |
| PROPELLER                   | E4A00133S     | HC-E4A-3J/E10950PCK/D-5547-P   | 2        | A/C     | Propeller Assembly includes D-5547-P Spin. 7931-67-680-5 de-ice kit, blade includes 4H3017-1 boot   |
| BLADE                       | E10950PCB     | PCP:BLADE ASSY, COMP,4H3400-1  | 4        | Prop    | Includes E-7016 Clamp, Cwt & 4H3400-1 Boot  |
| BLADE                       | E10950PCK     | PCP:BLADE ASSY, COMP, 4H3017-1 | 4        | Prop    | Includes E-7016 Clamp, Cwt & 4H3017-1 Boot  |
| SPINNER                     | D-5547-P      | SPINNER ASSEMBLY               | 1        | Prop    | Polished Spinner Assembly   |
| SP MT KIT DE-ICE            | A-2070-10     | SCREW, 1/4-28, BUTTON HEAD     | 8        | Prop    | Included in Prop side De-ice Kit  |
| COUNTERWEIGHT               | E-7016        | PCP:CLAMP, COUNTERWEIGHT       | 1        | Blade   | Blade Component   |
| COUNTERWEIGHT SLUG A-1744   |               | BOLT,3/8-24,HEX HEAD           | 2        | Blade   | Included in Propeller Assembly  |
| COUNTERWEIGHT SLUG A-2043-1 |               | NUT,3/8-24,HEX,SELF-LOCKING    | 2        | Blade   | Included in Propeller Assembly  |
| COUNTERWEIGHT SLUG C-6551   |               | PCP:SLUG, COUNTERWEIGHT        | 1        | Blade   | Included in Propeller Assembly  |
| COUNTERWEIGHT SLUG C-6551-1 |               | PCP: SLUG, COUNTERWEIGHT       | 1        | Blade   | Included in Propeller Assembly  |
| DE-ICER                     | 4H3017-1      | DE-ICE BOOT                    | 1        | Blade   | Blade Component, Supersedes 7931-4E3017-1   |
| DE-ICER                     | 4H3400-1      | DE-ICE BOOT                    | 1        | Blade   | Blade Component, Supersedes 7931-4E3400-1   |
| DE-ICE KIT PR               | 7931-67-680-5 | DE-ICE KIT (ONE PROP)          | 1        | Prop    | Prop side de-ice kit used in conjunction with 4H3017-1 Boot   |
| DE-ICE KIT PR               | 7931-67-680-6 | DE-ICE KIT (ONE PROP)          | 1        | Prop    | Prop side de-ice kit used in conjunction with 4H3400-1 Boot   |

|               |                |                                |    |      |  |
|---------------|----------------|--------------------------------|----|------|--|
| MTG BOLT/STUD | B-3347         | BOLT,MOUNTING,9/16-18,12 POINT | 12 | Prop | Included in Propeller Assembly                                     |
| MISC ACCES    | A-3044         | BLOCK, BETA FEEDBACK- ASSEMBLY | 1  | Prop | Included in Propeller Assembly                                     |
| OVERHAUL KIT  | 67-680-5-OH    | DE-ICE O/H KIT, 4H3017-1 BOOT  | 1  | Prop | For aftermarket use only   |
| OVERHAUL KIT  | 67-680-6-OH    | DE-ICE O/H KIT, 4H3400-1 BOOT  | 1  | Prop | For aftermarket use only   |
| OVERHAUL KIT  | HC-E4A-3J-OH   | O/H KIT,P (K,B) BLADE SUFFIX   | 1  | Prop | For aftermarket use only(OH KIT FOR PROPS W/ 2-BOLT COUNTERWEIGHT) |
| OVERHAUL KIT  | HC-E4A-3J-OH*1 | O/H KIT,PC (K,B) BLADE SUFFIX  | 1  | Prop | For aftermarket use only(OH KIT FOR PROPS W/ 4-BOLT COUNTERWEIGHT) |
| OVERHAUL KIT  | HC-E4A-3J-OH*2 | O/H KIT,P(K,B)PC(K,B) BLADE    | 1  | Prop | For aftermarket use only(2 EA 2-BOLT CLAMPS & 2 EA 4-BOLT CLAMPS)  |

### BEECH

**Model:** 3000  
**Trade Name:** T6A TEXAN II  
**Aircraft T.C./STC:** A00009WI  
**Propeller Model:** HC-E4A-2  
**Propeller T.C.:** P10NE

**IDS No.:** 1231      **Rev.:** 3      **IC Date:** 08/14/2015

**Modifier:**

**Engine Model:** PT6A-68

**Power:** 1100 HP @ 2000 RPM

**Placard/Restr:** Stabilized ground operation is prohibited between 1240 and 1600 RPM. The installation must incorporate an engine control system that will maintain propeller RPM at or above 1600 RPM during spin maneuvers. Intentional power on spins, inverted spins, and tail slides are prohibited. The propeller blades and hub unit are life limited at 19,497 hours.

**Blade Model(s):** E9612  
**Prop Diameter:** 97" TO 96"

**Notes:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 15.1 +-0.2  
**Stud Protrusion**

**Startlock Angle:** NA

**Feather/High Angle:** 86.0 +-0.5

**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>             | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>   |
|------------------|--------------------|--------------------------------|-----------------|----------------|---|
| PROPELLER        | E4A00001           | HC-E4A-2/E9612                 | 1               | A/C            | Basic propeller   |
| PROPELLER        | E4A00001S          | HC-E4A-2/E9612/D-5710-2P       | 1               | A/C            | Basic prop plus spinner and spinner mounting hardware, spinner bulkhead includes dynamic balance target     |
| PROPELLER        | E4A00002           | HC-E4A-2/E9612/BULKHEAD        | 1               | A/C            | Basic prop plus bulkhead (no dome) plus spinner mounting hardware, bulkhead includes dynamic balance target |
| BLADE            | E9612              | PCP:BLADE UNIT, ALUMINUM       | 4               | Prop           | Included with all props on this IDS   |
| SPINNER          | D-5710-2P          | SPINNER ASSEMBLY               | 1               | Prop           | Polished Spinner  |
| SPIN MTG KIT     | B-3384-8H          | BOLT, 1/4-28, HEX HEAD         | 8               | Prop           | Included with all props on this IDS   |
| SPIN MTG KIT     | B-3851-0463        | WASHER                         | 8               | Prop           | Included with all props on this IDS   |
| COUNTERWEIGHT    | C-329-1            | PCP:COUNTERWEIGHT              | 1               | Blade          | Included with all props on this IDS   |
| MTG BOLT/STUD    | B-3347             | BOLT,MOUNTING,9/16-18,12 POINT | 12              | Prop           | Included with all props on this IDS   |
| OVERHAUL KIT     | HC-E4A-2-OH        | O/H KIT                        | 1               | Prop           | For aftermarket use only  |

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**BEECH**

**Model:** 3000  
**Trade Name:** T6A TEXAN II  
**Aircraft T.C./STC:** A00009WI  
**Propeller Model:** HC-E4A-2A  
**Propeller T.C.:** P10NE

**IDS No.:** 1592      **Rev.:** 4      **IC Date:** 04/22/2016

**Modifier:**  
**Engine Model:** PT6A-68  
**Power:** 1100 HP @ 2000 RPM  
**Placard/Restr:** Stabilized ground operation is prohibited between 1240 and 1600 RPM. The installation must incorporate an engine control system that will maintain propeller RPM at or above 1600 RPM during spin maneuvers. Intentional power on spins, inverted spins, and tail slides are prohibited. The propeller blades and hub unit are life limited at 19,497 hours.

**Blade Model(s):** E9612K  
**Prop Diameter:** 97" TO 96"

**Notes:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 15.1 +-0.2  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 86.0 +-0.5  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type     | Item Number   | Description                    | Quantity | Qty Per | Comments   |
|---------------|---------------|--------------------------------|----------|---------|--|
| PROPELLER     | E4A00003      | HC-E4A-2A/E9612K               | 1        | A/C     | Propeller assembly including all prop side de-ice hardware                       |
| PROPELLER     | E4A00003S     | HC-E4A-2A/E9612K/D-5710-3P     | 1        | A/C     | Propeller assembly including all prop side de-ice hardware, and polished spinner |
| BLADE         | E9612K        | PCP:BLADE UNIT, 4H2271-14      | 4        | Prop    | Blade with de-icer installed (included with all props on this IDS)               |
| SPINNER       | D-5710-3P     | SPINNER ASSEMBLY               | 1        | Prop    | Polished spinner   |
| SPIN MTG KIT  | B-3384-5H     | BOLT, 1/4-28, HEX HEAD         | 8        | Prop    | Installed for shipment   |
| SPIN MTG KIT  | B-3384-8H     | BOLT, 1/4-28, HEX HEAD         | 8        | Prop    | Included with all props on this IDS, bagged, not installed                       |
| SPIN MTG KIT  | B-3851-0463   | WASHER                         | 8        | Prop    | Included with all props on this IDS  |
| COUNTERWEIGHT | C-329-2       | PCP:COUNTERWEIGHT              | 1        | Blade   | Included with all props on this IDS  |
| DE-ICER       | 4H2271-14     | DE-ICE BOOT                    | 1        | Blade   | Blade Component, Supersedes 7931-4E2271-14                                       |
| DE-ICE KIT PR | 106576        | DE-ICE KIT (ONE PROP)          | 1        | Prop    | Supersedes 7931-67-944-1 de-ice kit  |
| DE-ICE KIT PR | 7931-67-944-1 | DE-ICE KIT (ONE PROP)          | 1        | Prop    | Superseded by 106576 de-ice kit.   |
| MTG BOLT/STUD | B-3347        | BOLT,MOUNTING,9/16-18,12 POINT | 12       | Prop    | Included with all props on this IDS  |
| OVERHAUL KIT  | HC-E4A-2A-OH  | O/H KIT                        | 1        | Prop    | For aftermarket use only   |

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**BEECHCRAFT**

**Model:** 300, 300LW, B300, B300C, B300C (MC-12W), B300C (UC-12W)

**Trade Name:** King Air 350

**Aircraft T.C./STC:** SA02559SE

**Propeller Model:** HC-E5P-3

**Propeller T.C.:** P20NE

**Blade Model(s):** NC10320K\*1

**Prop Diameter:** 106"

**Prop Setup:**

**Ref. Radius:** 42

**Reverse Angle:** -14 +/-0.5

**Low Pitch Angle:** 15.0 +/-0.1

**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**IDS No.:** 3546      **Rev.:** 4      **IC Date:** 11/02/2020

**Modifier:** Raisbeck

**Engine Model:** PT6A-60A

**Power:** 1050 HP @ 1700 RPM

**Placard/Restr:** Stabilized ground operation is prohibited between 500 and 900 RPM. The propeller may be operated when feathered at or below 500 RPM.

**Notes:**

**Startlock Angle:**

**Feather/High Angle:** 79.3 +/- 0.5

**Cwt Angle:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u>            | <u>Item Number</u> | <u>Description</u>             | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>         |
|-----------------------------|--------------------|--------------------------------|-----------------|----------------|-------------------------|
| PROPELLER                   | E5P00130S          | HC-E5P-3/NC10320K*1/SPIN       | 2               | A/C            |                         |
| PROPELLER                   | E5P00130SKD        | HC-E5P-3/NC10320K*1/SPIN       | 2               | A/C            |                         |
| PROPELLER                   | E5P00132           | HC-E5P-3/NC10320K*1/BULK       | 2               | A/C            |                         |
| PROPELLER                   | E5P00132KD         | HC-E5P-3/NC10320K*1/BULK       | 2               | A/C            |                         |
| BLADE                       | NC10320K*1         | PCP:BLADE ASSY, COMP [3,24,11] | 5               | Prop           |                         |
| SPINNER                     | 105929             | SPINNER ASSEMBLY               | 1               | Prop           |                         |
| SPINNER                     | 105929P            | SPINNER ASSEMBLY               | 1               | Prop           |                         |
| SP MT KIT DE-ICE            | A-2070-10          | SCREW, 1/4-28, BUTTON HEAD     | 10              | Prop           | Hardware for deice prop |
| COUNTERWEIGHT               | 105604             | PCP:COUNTERWEIGHT              | 1               | Blade          |                         |
| COUNTERWEIGHT SLUG A-1712   |                    | BOLT,3/8-24,HEX HEAD           | 1               | Blade          |                         |
| COUNTERWEIGHT SLUG A-1713   |                    | PCP: SLUG, COUNTERWEIGHT       | 10              | Blade          |                         |
| COUNTERWEIGHT SLUG A-2043-1 |                    | NUT,3/8-24,HEX,SELF-LOCKING    | 1               | Blade          |                         |
| DE-ICER                     | 106959             | DE-ICE BOOT                    | 1               | Blade          |                         |
| DE-ICE KIT PR               | 106049             | DE-ICE KIT (ONE PROP)          | 1               | Prop           |                         |
| DE-ICE KIT A/F              | 106095             | AIRFRAME DE-ICE KIT            | 1               | A/C            |                         |
| MTG BOLT/STUD               | C-6006             | NUT,MOUNTING,9/16-18,12 POINT  | 8               | Prop           |                         |

# HARTZELL

## APPLICATION GUIDE 159

Beechcraft

IDS No.: 3820 Rev.: 2 IC Date: 02/25/2022

**Model:** S35, V35, V35A, V35B, 35-C33A, E33A, E33C, F33A, F33C, 36 (E-1 thru E-184), and A36 (E-185 thru E-2110 except E-1946 and E-2104)

**Modifier:** Hartzell Propeller, Inc.

**Trade Name:** Bonanza  
**Aircraft T.C./STC:** SA04505CH  
**Propeller Model:** HC-C3YF-1N  
**Propeller T.C.:** P25EA  
**Blade Model(s):** NM8410-4  
 NM8410K-4  
**Prop Diameter:** 82"

**Engine Model:** IO-550-B  
**Power:** 300 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 11.3 +/- 0.2  
**Stud Protrusion** 1.325 +/- 0.015

**Startlock Angle:** NA  
**Feather/High Angle:** 31.0 +/- 1.0  
**Cwt Angle:** NA

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>             | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>             |
|------------------|--------------------|--------------------------------|-----------------|----------------|-----------------------------|
| PROPELLER        | C3F20125           | HC-C3YF-1N/NM8410-4/SM7        | 1               | A/C            |                             |
| PROPELLER        | C3F20125KD         | HC-C3YF-1N/NM8410-4/SM7        | 1               | A/C            |                             |
| PROPELLER        | C3F20135           | HC-C3YF-1N/NM8410K-4/SM7       | 1               | A/C            |                             |
| BLADE            | NM8410-4           | PCP: BLADE ASSEMBLY, COMPOSITE | 3               | Prop           |                             |
| BLADE            | NM8410K-4          | PCP: BLADE ASSEMBLY, COMPOSITE | 3               | Prop           | De-iced blade               |
| SPINNER          | A-2295-15          | SPINNER ASSEMBLY               | 1               | Prop           | Used with de-iced propeller |
| SPINNER          | A-2295-15P         | SPINNER ASSEMBLY               | 1               | Prop           | Used with de-iced propeller |
| GOVERNOR         | S-1-35             | GOVERNOR ASSEMBLY, S-1-35      | 1               | A/C            |                             |
| SPIN MTG KIT     | A-2476-7           | SPINNER - MTG KIT              | 1               | Prop           |                             |
| DE-ICER          | 106830-1           | DE-ICE BOOT                    | 1               | Blade          |                             |
| DE-ICER          | 2H1291             | STRAP, RESTRAINER, DE-ICE      | 1               | Blade          | De-iced blade component     |
| DE-ICE KIT PR    | 106831             | DE-ICE KIT (ONE PROP)          | 1               | Prop           |                             |
| DE-ICE KIT A/F   | 108347             | AIRFRAME DE-ICE KIT            | 1               | A/C            |                             |
| MTG BOLT/STUD    | A-2429-8           | STUD, MOUNTING, 1/2-20         | 6               | Prop           |                             |



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Beechcraft

IDS No.: 3821 Rev.: 2 IC Date: 07/07/2022

**Model:** S35, V35, V35A, V35B, 35-C33A, E33A, E33C, F33A, F33C, 36 (E-1 thru E-184), and A36 (E-185 thru E-2110 except E-1946 and E-2104)

**Modifier:** Hartzell Propeller, Inc.

**Trade Name:** Bonanza  
**Aircraft T.C./STC:** SA04505CH  
**Propeller Model:** HC-C3YF-1N  
**Propeller T.C.:** P25EA  
**Blade Model(s):** NM8410-4  
 NM8410K-4  
**Prop Diameter:** 82"

**Engine Model:** IO-520-B,BB  
**Power:** 285 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 11.0 +/- 0.2  
**Stud Protrusion** 1.325 +/- 0.015

**Startlock Angle:** NA  
**Feather/High Angle:** 31.0 +/- 1.0  
**Cwt Angle:** NA

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>             | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>             |
|------------------|--------------------|--------------------------------|-----------------|----------------|-----------------------------|
| PROPELLER        | C3F20140           | HC-C3YF-1N/NM8410-4/SM7        | 1               | A/C            |                             |
| PROPELLER        | C3F20140KD         | HC-C3YF-1N/NM8410-4/SM7        | 1               | A/C            |                             |
| PROPELLER        | C3F20150           | HC-C3YF-1N/NM8410K-4/SM7       | 1               | A/C            |                             |
| BLADE            | NM8410-4           | PCP: BLADE ASSEMBLY, COMPOSITE | 3               | Prop           |                             |
| BLADE            | NM8410K-4          | PCP: BLADE ASSEMBLY, COMPOSITE | 3               | Prop           | De-iced blade               |
| SPINNER          | A-2295-15          | SPINNER ASSEMBLY               | 1               | Prop           | Used with de-iced propeller |
| SPINNER          | A-2295-15P         | SPINNER ASSEMBLY               | 1               | Prop           | Used with de-iced propeller |
| GOVERNOR         | S-1-35             | GOVERNOR ASSEMBLY, S-1-35      | 1               | A/C            |                             |
| SPIN MTG KIT     | A-2476-7           | SPINNER - MTG KIT              | 1               | Prop           |                             |
| DE-ICER          | 106830-1           | DE-ICE BOOT                    | 1               | Blade          |                             |
| DE-ICER          | 2H1291             | STRAP, RESTRAINER, DE-ICE      | 1               | Blade          | De-iced blade component     |
| DE-ICE KIT PR    | 106831             | DE-ICE KIT (ONE PROP)          | 1               | Prop           |                             |
| DE-ICE KIT A/F   | 108347             | AIRFRAME DE-ICE KIT            | 1               | A/C            |                             |
| MTG BOLT/STUD    | A-2429-8           | STUD, MOUNTING, 1/2-20         | 6               | Prop           |                             |

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Beechcraft

IDS No.: 2845 Rev.: 1 D Date: 01/10/2011

**Model:** C90A, E90  
**Trade Name:** King Air  
**Aircraft T.C./STC:** STC SA10341SC  
**Propeller Model:** HC-B3TN-3(B,M)  
**Propeller T.C.:** P15EA  
**Blade Model(s):** T10173N-8  
                           T10173NB-8  
                           T10173NK-8  
**Prop Diameter:** 90.375" TO 93.5"

**Modifier:** Blackhawk Modifications  
**Engine Model:** PT6A-135A  
**Power:** 550 HP @ 1900 RPM  
**Placard/Restr:**  
**Notes:** Existing de-ice retained per aircraft TC 3A20 [add as appropriate]

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** -11.0+- .5  
**Low Pitch Angle:** 20.2+- .5  
**Stud Protrusion**

**Startlock Angle:**  
**Feather/High Angle:** 87.0+- .5  
**Cwt Angle:** Positive

**Non-HPI Items:**

**Non-HPI Spinner:** -

**Non-HPI Governor:** -

**Hartzell Approved Items:**

| <u>Item Type</u>               | <u>Item Number</u> | <u>Description</u>                | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|--------------------------------|--------------------|-----------------------------------|-----------------|----------------|-----------------|
| BLADE                          | T10173N-8          | PCP:BLADE UNIT, ALUM [1,1,1]      | 3               | Prop           |                 |
| BLADE                          | T10173NB-8         | PCP:BLADE UNIT, ALUM, 4H1188-5    | 3               | Prop           | 4H1188-5 Boot   |
| BLADE                          | T10173NK-8         | PCP:BLADE UNIT, ALUM 4H2200-10    | 3               | Prop           | 4H2200-10 Boot  |
| SPINNER                        | C-3065-13          | SPINNER ASSEMBLY                  | 1               | Prop           |                 |
| SPINNER                        | C-3065-13P         | SPINNER ASSEMBLY                  | 1               | Prop           |                 |
| SP MT KIT DE-ICE               | A-2070-7           | SCREW, 1/4-28, BUTTON HEAD        | 12              | Prop           |                 |
| COUNTERWEIGHT SLUG A-3039      |                    | SLUG, COUNTERWEIGHT               | 1               | Blade          |                 |
| COUNTERWEIGHT SLUG B-3384-18H  |                    | BOLT, 1/4-28, HEX HEAD            | 2               | Blade          |                 |
| COUNTERWEIGHT SLUG B-3851-0463 |                    | WASHER                            | 2               | Blade          | OPTIONAL        |
| DE-ICER                        | 4H1188-5           | DE-ICE BOOT                       | 1               | Blade          | B Boot          |
| DE-ICER                        | 4H2200-10          | DE-ICE BOOT                       | 1               | Blade          | K Boot          |
| DE-ICE KIT PR                  | 7931-65-100-1B1    | DE-ICE KIT (ONE PROP)             | 1               | Prop           | B System        |
| DE-ICE KIT PR                  | 7931-67-280-2      | DE-ICE KIT (ONE PROP)             | 1               | Prop           | K System        |
| MTG BOLT/STUD                  | B-3339             | BOLT, MOUNTING, 9/16-18, 12 POINT | 8               | Prop           |                 |

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### BEECHCRAFT

**Model:** C90, C90A, E90  
**Trade Name:** King Air  
**Aircraft T.C./STC:** STC SA10341SC  
**Propeller Model:** HC-D4N-3C  
**Propeller T.C.:** P10NE

**Blade Model(s):** D9290K  
 D9290SK  
**Prop Diameter:** 93.0-92.0

#### Prop Setup:

**Ref. Radius:** 30"  
**Reverse Angle:** -9.0 +/-0.5  
**Low Pitch Angle:** 20.1 +/-0.1  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

#### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>             | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>                       |
|------------------|--------------------|--------------------------------|-----------------|----------------|---------------------------------------|
| BLADE            | D9290K             | PCP:BLADE UNIT, ALUM 4H2271-12 | 4               | Prop           |                                       |
| BLADE            | D9290SK            | PCP:BLADE UNIT, ALUMINUM       | 4               | Prop           |                                       |
| SPINNER          | D-630-4            | SPINNER ASSEMBLY               | 1               | Prop           |                                       |
| SPINNER          | D-630-4P           | SPINNER ASSEMBLY               | 1               | Prop           |                                       |
| SP MT KIT DE-ICE | A-2070-7           | SCREW, 1/4-28, BUTTON HEAD     | 8               | Prop           |                                       |
| COUNTERWEIGHT    | C-472-1            | PCP:COUNTERWEIGHT              | 1               | Blade          |                                       |
| DE-ICER          | 4H2271-12          | DE-ICE BOOT                    | 1               | Blade          | Supersedes 4H2271-10 & 7931-4E2271-10 |
| DE-ICE KIT PR    | 106298             | DE-ICE KIT (ONE PROP)          | 1               | Prop           | Supersedes 7931-67-450-1              |
| DE-ICE KIT PR    | 7931-67-450-1      | DE-ICE KIT (ONE PROP)          | 1               | Prop           | Superseded by 106298                  |
| MTG BOLT/STUD    | B-3339-1           | BOLT,MOUNTING,9/16-18,12 POINT | 8               | Prop           |                                       |
| OVERHAUL KIT     | 106298-OH          | DE-ICE O/H KIT, 4H2271-12 BOOT | 1               | Prop           | For aftermarket use only              |

**IDS No.:** 2827      **Rev.:** 5      **IC Date:** 02/01/2016

**Modifier:** Blackhawk Modifications

**Engine Model:** PT6A-135A

**Power:** 550 HP @ 1900 RPM

**Placard/Restr:** 1) Stabilized ground operation is prohibited between 400 -1100 RPM, except that with propeller feathered, operation at or below 400 RPM is permissible.

**Notes:** Refer to TCDS P10NE regarding interchangeability of shot peened blades.

**Startlock Angle:**

**Feather/High Angle:** 86.5 +/-0.5

**Cwt Angle:**

**Non-HPI Governor:**

# HARTZELL

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BEECHCRAFT

IDS No.: 2826 Rev.: 3 IC Date: 08/14/2015

**Model:** C90, C90A, E90  
**Trade Name:** King Air  
**Aircraft T.C./STC:** STC SA10341SC  
**Propeller Model:** HC-E4N-3N  
**Propeller T.C.:** P10NE

**Modifier:** Blackhawk Modifications  
**Engine Model:** PT6A-135A  
**Power:** 550 HP @ 1900 RPM  
**Placard/Restr:** 1) Stabilized ground operation is prohibited between 500-1070 RPM, except that with propeller feathered, operation at or below 500 RPM is permissible.

**Blade Model(s):** D8990S  
 D8990SK

**Notes:**

**Prop Diameter:** 90.0-89.0

**Prop Setup:**

**Ref. Radius:** 30"  
**Reverse Angle:** -10.0 +/- 0.2  
**Low Pitch Angle:** 20.1 +/- 0.1

**Startlock Angle:**  
**Feather/High Angle:** 85.8 +/- 0.5

**Stud Protrusion**

**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type        | Item Number   | Description                    | Quantity | Qty Per | Comments  |
|------------------|---------------|--------------------------------|----------|---------|---|
| PROPELLER        | E4N00135S     | HC-E4N-3N/D8990SK/D-630-4P     | 2        | A/C     |   |
| BLADE            | D8990S        | PCP:BLADE UNIT, ALUMINUM       | 0        |         | De-Ice boot must be installed on blade for the prop to conform to the aircraft Type Certificate |
| BLADE            | D8990SK       | PCP:BLADE UNIT, ALUM,4H2271-12 | 4        | Prop    |   |
| SPINNER          | D-630-4       | SPINNER ASSEMBLY               | 1        | Prop    |   |
| SPINNER          | D-630-4P      | SPINNER ASSEMBLY               | 1        | Prop    |   |
| SP MT KIT DE-ICE | A-2070-7      | SCREW, 1/4-28, BUTTON HEAD     | 8        | Prop    |   |
| COUNTERWEIGHT    | C-472-3       | PCP:COUNTERWEIGHT              | 1        | Blade   |   |
| DE-ICER          | 4H2271-12     | DE-ICE BOOT                    | 1        | Blade   |   |
| DE-ICE KIT PR    | 106298        | DE-ICE KIT (ONE PROP)          | 1        | Prop    | Supersedes 7931-5E2767-1  |
| DE-ICE KIT PR    | 7931-5E2767-1 | DE-ICE KIT (ONE PROP)          | 1        | Prop    | Superseded by 106298  |
| MTG BOLT/STUD    | B-3339-1      | BOLT,MOUNTING,9/16-18,12 POINT | 8        | Prop    |   |
| MISC ACCES       | A-3044        | BLOCK, BETA FEEDBACK- ASSEMBLY | 1        | Prop    |   |
| OVERHAUL KIT     | HC-E4N-3N-OH  | O/H KIT                        | 1        | Prop    | For aftermarket use only  |

# HARTZELL

BEECHCRAFT CORPORATION

**Model:** C90A  
**Trade Name:**  
**Aircraft T.C./STC:** SA01902CH  
**Propeller Model:** HC-E4W-3  
**Propeller T.C.:** P10NE

**Blade Model(s):** D9290K\*2  
**Prop Diameter:** 93" to 92"

**Prop Setup:**

**Ref. Radius:** 30"  
**Reverse Angle:** -9.0 +-0.5  
**Low Pitch Angle:** 17.5+-0.1  
**Stud Protrusion** 1.710 +-0.010

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type      | Item Number | Description                  | Quantity | Qty Per | Comments             |
|----------------|-------------|------------------------------|----------|---------|----------------------|
| PROPELLER      | E4W00150S   | HC-E4W-3/D9290K[*2]/D-630-5P | 2        | A/C     |                      |
| BLADE          | D9290K*2    | PCP:BLADE UNIT, ALUM 103880  | 4        | Prop    |                      |
| SPINNER        | D-630-5P    | SPINNER ASSEMBLY             | 1        | Prop    |                      |
| COUNTERWEIGHT  | C-472-1     | PCP:COUNTERWEIGHT            | 1        | Blade   |                      |
| DE-ICER        | 103880      | DE-ICE BOOT                  | 1        | Blade   |                      |
| DE-ICE KIT PR  | 103553      | DE-ICE KIT (ONE PROP)        | 1        | Prop    | Superseded by 106298 |
| DE-ICE KIT PR  | 106298      | DE-ICE KIT (ONE PROP)        | 1        | Prop    | Supersedes 103553    |
| DE-ICE KIT A/F | 104009      | AIRFRAME DE-ICE KIT          | 1        | A/C     |                      |
| MTG BOLT/STUD  | A-3254      | STUD, MOUNTING, 9/16-18      | 8        | Prop    |                      |
| MTG BOLT/STUD  | B-7624      | WASHER, MOUNTING, 9/16 "     | 8        | Prop    |                      |
| MISC ACCES     | B-7458      | NUT,9/16-18,HEX,SELF-LOCKING | 8        | Prop    |                      |

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**IDS No.:** 3294      **Rev.:** 4      **IC**      **Date:** 01/11/2019  
**Modifier:** Nextant  
**Engine Model:** H75-100  
**Power:** 550 HP @ 1900 RPM  
**Placard/Restr:** Stabilized ground operation is prohibited between 400 and 1100 RPM. The propeller may be operated when feathered at or below 400 RPM.  
**Notes:** The H75-100 engine is rated at 751 HP and 2080 RPM. For this aircraft, the engine is limited to 550 HP at 1900 RPM.

**Startlock Angle:**  
**Feather/High Angle:** 84.5+-0.5  
**Cwt Angle:**

**Non-HPI Governor:**

# HARTZELL

## APPLICATION GUIDE

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BEECHCRAFT CORPORATION

IDS No.: 3016 Rev.: 8 BC Date: 05/05/2014

**Model:** B200, B200(C, CGT, GT)

**Trade Name:** King Air

**Aircraft T.C./STC:** SA02130SE

**Propeller Model:** HC-E4N-3A

**Propeller T.C.:** P10NE

**Modifier:** BEECHCRAFT CORP.

**Engine Model:** PT6A-42, PT6A-52

**Power:** 850 HP @ 2000 RPM

**Placard/Restr:** Stabilized ground operation is prohibited between 500 and 1180 RPM. The propeller may be operated when feathered at or below 500 RPM.

**Blade Model(s):** NC9208K  
NC9208K(SO)

**Prop Diameter:** 93.0"

**Notes:**

**Prop Setup:**

**Ref. Radius:** 30

**Reverse Angle:** -11.0 + - 0.5

**Low Pitch Angle:** 18.6 +/- 0.1

**Stud Protrusion**

**Startlock Angle:**

**Feather/High Angle:** 86.7 +/- 0.5

**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type        | Item Number | Description                       | Quantity | Qty Per | Comments  |
|------------------|-------------|-----------------------------------|----------|---------|---|
| PROPELLER        | E4N10100    | HC-E4N-3A/NC9208K                 | 2        | A/C     | De-iced propeller without spinner   |
| PROPELLER        | E4N10100KD  | HC-E4N-3A/NC9208K                 | 2        | A/C     | Prop less spinner disassembled for shipment   |
| PROPELLER        | E4N10100S   | HC-E4N-3A/NC9208K/D-630-2P        | 2        | A/C     | De-iced propeller with polished spinner   |
| PROPELLER        | E4N10100SKD | HC-E4N-3A/NC9208K/D-630-2P        | 2        | A/C     | Prop with spinner, disassembled for shipment  |
| BLADE            | NC9208K     | PCP:BLADE ASSY, COMPOSITE         | 4        | Prop    | Included with all props on this IDS   |
| BLADE            | NC9208K(SO) | BLADE ASSEMBLY, COMP, SHIP-OUT    | 0        |         | Aftermarket item number, includes bearing, retaining ring, plug, and O-Ring installed (for shops that can't install bearings) |
| SPINNER          | D-630-2     | SPINNER ASSEMBLY                  | 1        | Prop    | Non-polished spinner (suitable surface for paint)   |
| SPINNER          | D-630-2P    | SPINNER ASSEMBLY                  | 1        | Prop    | Polished spinner  |
| SP MT KIT DE-ICE | A-2070-7    | SCREW, 1/4-28, BUTTON HEAD        | 8        | Prop    | Included with all props on this IDS (in de-ice kit)   |
| COUNTERWEIGHT    | 103470      | PCP:COUNTERWEIGHT                 | 1        | Blade   | Included with all props on this IDS   |
| DE-ICER          | 103503      | DE-ICE BOOT                       | 1        | Blade   | Blade component   |
| DE-ICE KIT PR    | 103605      | DE-ICE KIT (ONE PROP)             | 1        | Prop    | Included with all props on this IDS   |
| DE-ICE KIT A/F   | 103652      | AIRFRAME DE-ICE KIT               | 1        | A/C     | Included with all props on this IDS   |
| MTG BOLT/STUD    | B-3339-1    | BOLT, MOUNTING, 9/16-18, 12 POINT | 8        | Prop    | Included with all props on this IDS   |
| MISC ACCES       | A-3044      | BLOCK, BETA FEEDBACK- ASSEMBLY    | 1        | Prop    | Included with all props on this IDS   |

# HARTZELL

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Beechcraft Defense Company

**Model:** 3000  
**Trade Name:** AT-6()  
**Aircraft T.C./STC:** Military Type Certificate  
**Propeller Model:** HC-E4A-2  
**Propeller T.C.:** P10NE

**Blade Model(s):** E9673S  
**Prop Diameter:** 97"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** 16.5 +/- 0.2  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>                | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>   |
|------------------|--------------------|-----------------------------------|-----------------|----------------|---|
| PROPELLER        | E4A00015           | HC-E4A-2/E9673S/BULK              | 1               | A/C            | Propeller assembly with spinner bulkhead, but without dome and dome mounting hardware |
| PROPELLER        | E4A00015S          | HC-E4A-2/E9673S/D-5710-2          | 1               | A/C            | Propeller assembly, including a spinner with surface suitable for paint               |
| BLADE            | E9673S             | PCP:BLADE UNIT, ALUMINUM          | 4               | Prop           | Included with all props on this IDS   |
| SPINNER          | D-5710-2           | SPINNER ASSEMBLY                  | 1               | Prop           | Spinner with surface suitable for paint   |
| SPIN MTG KIT     | B-3384-8H          | BOLT, 1/4-28, HEX HEAD            | 8               | Prop           | Included with all props on this IDS   |
| SPIN MTG KIT     | B-3851-0463        | WASHER                            | 8               | Prop           | Included with all props on this IDS   |
| COUNTERWEIGHT    | C-329-1            | PCP:COUNTERWEIGHT                 | 1               | Blade          | Included with all props on this IDS   |
| MTG BOLT/STUD    | B-3347             | BOLT, MOUNTING, 9/16-18, 12 POINT | 12              | Prop           | Included with all props on this IDS   |
| OVERHAUL KIT     | HC-E4A-2-OH        | O/H KIT                           | 1               | Prop           | For aftermarket use only  |

**IDS No.:** 3068      **Rev.:** 7      **IC Date:** 06/09/2020

**Modifier:**  
**Engine Model:** PT6A-68D  
**Power:** 1600 HP @ 2000 RPM  
**Placard/Restr:** Stabilized ground operation is prohibited between 1160 and 1520 RPM, 58% to 76% Np.

**Notes:**

**Startlock Angle:**  
**Feather/High Angle:** 84.0 +/- 0.2  
**Cwt Angle:**

**Non-HPI Governor:**

BELLANCA

**Model:** see also ANDERSON GREENWOOD  
**Trade Name:**  
**Aircraft T.C./STC:**  
**Propeller Model:**  
**Propeller T.C.:**  
**Blade Model(s):**  
**Prop Diameter:**

### Prop Setup:

**Ref. Radius:**  
**Reverse Angle:**  
**Low Pitch Angle:**  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

### Hartzell Approved Items:

**IDS No.:** 1383      **Rev.:** -      **DM Date:** 10/01/1992

**Modifier:**  
**Engine Model:**  
**Power:** HP @ RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:**  
**Feather/High Angle:**  
**Cwt Angle:**

**Non-HPI Governor:**

# HARTZELL

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**BELLANCA**

**Model:** 14-13  
**Trade Name:**  
**Aircraft T.C./STC:** STC-SA2-848  
**Propeller Model:** HC-12X20-8D, HC-12X20-8, HC-D2X20-8  
**Propeller T.C.:** P48GL  
**Blade Model(s):** 8433-6  
**Prop Diameter:** 78"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.5 +/-0.2  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number | Description                | Quantity | Qty Per | Comments |
|---------------|-------------|----------------------------|----------|---------|----------|
| BLADE         | 8433-6      | BLADE                      | 2        | Prop    |          |
| MTG BOLT/STUD | A-63B       | PCP: NUT, SHAFT, 20 SPLINE | 1        | Prop    |          |
| MTG BOLT/STUD | A-63-B      | NUT,SHAFT,20 SPLINE        | 1        | Prop    |          |

**IDS No.:** 2119      **Rev.:** -      **DM Date:** 11/20/2003

**Modifier:** WILLIAM E. HUSK  
**Engine Model:** O-435-C  
**Power:** 190 HP @ 2550 RPM  
**Placard/Restr:**

**Notes:** D2210027 is without hydraulic unit

**Startlock Angle:** NA  
**Feather/High Angle:** 22.5 +/-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:**

**BELLANCA**

**Model:** 14-13  
**Trade Name:**  
**Aircraft T.C./STC:** STC-SA2-848  
**Propeller Model:** HC-12V20-8D, HC-12V20-8, HC-D2V20-8  
**Propeller T.C.:** P48GL  
**Blade Model(s):** V8433-6  
V8433N-6  
**Prop Diameter:** 78"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.5 +/-0.2  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number | Description                | Quantity | Qty Per | Comments |
|---------------|-------------|----------------------------|----------|---------|----------|
| BLADE         | V8433-6     | BLADE                      | 2        | Prop    |          |
| BLADE         | V8433N-6    | BLADE                      | 2        | Prop    |          |
| MTG BOLT/STUD | A-63B       | PCP: NUT, SHAFT, 20 SPLINE | 1        | Prop    |          |
| MTG BOLT/STUD | A-63-B      | NUT,SHAFT,20 SPLINE        | 1        | Prop    |          |

**IDS No.:** 2120      **Rev.:** -      **DM Date:** 11/20/2003

**Modifier:** WILLIAM E. HUSK  
**Engine Model:** O-435-C  
**Power:** 190 HP @ 2550 RPM  
**Placard/Restr:**

**Notes:** D2210027 is without hydraulic unit

**Startlock Angle:** NA  
**Feather/High Angle:** 22.5 +/-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:**



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**BELLANCA**

**Model:** 14-13  
**Trade Name:**  
**Aircraft T.C./STC:** STC-SA2-848  
**Propeller Model:** HC-D2MV20-8  
**Propeller T.C.:** P48GL  
**Blade Model(s):** MV8433N-6  
**Prop Diameter:** 78"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.5 +-0.2  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number    | Description                    | Quantity | Qty Per | Comments                 |
|---------------|----------------|--------------------------------|----------|---------|--------------------------|
| PROPELLER     | D2210027       | HC-D2MV20-8/MV8433N-6/LESS HYD | 1        | A/C     |                          |
| BLADE         | MV8433N-6      | PCP:BLADE UNIT, ALUMINUM       | 2        | Prop    |                          |
| MTG BOLT/STUD | A-63B          | PCP: NUT, SHAFT, 20 SPLINE     | 1        | Prop    |                          |
| MTG BOLT/STUD | A-63-B         | NUT,SHAFT,20 SPLINE            | 1        | Prop    |                          |
| OVERHAUL KIT  | HC-D2MV20-8-OH | O/H KIT                        | 1        | Prop    | For aftermarket use only |

**IDS No.:** 298      **Rev.:** 2      **IC Date:** 07/06/2015

**Modifier:** WILLIAM E. HUSK  
**Engine Model:** O-435-C  
**Power:** 190 HP @ 2550 RPM  
**Placard/Restr:**  
**Notes:** D2210027 is without hydraulic unit

**Startlock Angle:** NA  
**Feather/High Angle:** 22.5 +-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:**

**BELLANCA**

**Model:** 14-19  
**Trade Name:**  
**Aircraft T.C./STC:** 1A3  
**Propeller Model:** HC-12X20-8  
**Propeller T.C.:**  
**Blade Model(s):** 8428-6  
**Prop Diameter:** 78" TO 75"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 9.2 +-0.2  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type | Item Number | Description | Quantity | Qty Per | Comments |
|-----------|-------------|-------------|----------|---------|----------|
| BLADE     | 8428-6      | IDS Item    | 1        | Prop    |          |

**IDS No.:** 293      **Rev.:** -      **DM Date:** 03/31/1993

**Modifier:**  
**Engine Model:** O-435-A  
**Power:** 190 HP @ 2550 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 21.8 +-0.5  
**Cwt Angle:**

**Non-HPI Governor:**

# HARTZELL

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**BELLANCA**

**Model:** 14-19  
**Trade Name:**  
**Aircraft T.C./STC:** 1A3  
**Propeller Model:** HC-12X20-B, HC-D2X20-8, HC-12X20-8C  
**Propeller T.C.:** P48GL  
**Blade Model(s):** 8433-6  
**Prop Diameter:** 78" TO 76.5"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 11.0 +/-0.2  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number | Description                | Quantity | Qty Per | Comments |
|---------------|-------------|----------------------------|----------|---------|----------|
| BLADE         | 8433-6      | BLADE                      | 2        | Prop    |          |
| MTG BOLT/STUD | A-63B       | PCP: NUT, SHAFT, 20 SPLINE | 1        | Prop    |          |
| MTG BOLT/STUD | A-63-B      | NUT,SHAFT,20 SPLINE        | 1        | Prop    |          |

**IDS No.:** 2114      **Rev.:** -      **DM Date:** 11/20/2003

**Modifier:**  
**Engine Model:** O-435-A  
**Power:** 190 HP @ 2550 RPM  
**Placard/Restr:**

**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 22.0 MIN  
**Cwt Angle:** Positive

**Non-HPI Governor:**

**BELLANCA**

**Model:** 14-19  
**Trade Name:**  
**Aircraft T.C./STC:** 1A3  
**Propeller Model:** HC-12V20-8, HC-D2V20-8, HC-12V20-8C  
**Propeller T.C.:** P48GL  
**Blade Model(s):** V8433-6  
V8433N-6  
**Prop Diameter:** 78" TO 76.5"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 11.0 +/-0.2  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number | Description                | Quantity | Qty Per | Comments |
|---------------|-------------|----------------------------|----------|---------|----------|
| BLADE         | V8433-6     | BLADE                      | 2        | Prop    |          |
| BLADE         | V8433N-6    | BLADE                      | 2        | Prop    |          |
| MTG BOLT/STUD | A-63B       | PCP: NUT, SHAFT, 20 SPLINE | 1        | Prop    |          |
| MTG BOLT/STUD | A-63-B      | NUT,SHAFT,20 SPLINE        | 1        | Prop    |          |

**IDS No.:** 2115      **Rev.:** -      **DM Date:** 11/20/2003

**Modifier:**  
**Engine Model:** O-435-A  
**Power:** 190 HP @ 2550 RPM  
**Placard/Restr:**

**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 22.0 MIN  
**Cwt Angle:** Positive

**Non-HPI Governor:**

# HARTZELL

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**BELLANCA**

IDS No.: 294 Rev.: 2 IC Date: 07/06/2015

Model: 14-19  
 Trade Name:  
 Aircraft T.C./STC: 1A3  
 Propeller Model: HC-D2MV20-8  
 Propeller T.C.: P48GL  
 Blade Model(s): MV8433N-6  
 Prop Diameter: 78" TO 76.5"

Modifier:  
 Engine Model: O-435-A  
 Power: 190 HP @ 2550 RPM  
 Placard/Restr:  
 Notes:

**Prop Setup:**

Ref. Radius: 30  
 Reverse Angle: NA  
 Low Pitch Angle: 11.0 +/-0.2  
 Stud Protrusion

Startlock Angle: NA  
 Feather/High Angle: 22.0 MIN  
 Cwt Angle: Positive

**Non-HPI Items:**

Non-HPI Spinner:

Non-HPI Governor:

**Hartzell Approved Items:**

| Item Type     | Item Number    | Description                    | Quantity | Qty Per | Comments                 |
|---------------|----------------|--------------------------------|----------|---------|--------------------------|
| PROPELLER     | D2210037       | HC-D2MV20-8/MV8433N-6/LESS HYD | 1        | A/C     |                          |
| BLADE         | MV8433N-6      | PCP:BLADE UNIT, ALUMINUM       | 2        | Prop    |                          |
| MTG BOLT/STUD | A-63B          | PCP: NUT, SHAFT, 20 SPLINE     | 1        | Prop    |                          |
| MTG BOLT/STUD | A-63-B         | NUT,SHAFT,20 SPLINE            | 1        | Prop    |                          |
| OVERHAUL KIT  | HC-D2MV20-8-OH | O/H KIT                        | 1        | Prop    | For aftermarket use only |

**BELLANCA**

IDS No.: 295 Rev.: 2 IC Date: 07/06/2015

Model: 14-19-2  
 Trade Name:  
 Aircraft T.C./STC: 1A3  
 Propeller Model: HC-A2MVF-1A  
 Propeller T.C.: P24EA  
 Blade Model(s): MV8433NS-6  
 Prop Diameter: 78.5" TO 78.0"

Modifier:  
 Engine Model: O-470-K  
 Power: 230 HP @ 2600 RPM  
 Placard/Restr:  
 Notes:

**Prop Setup:**

Ref. Radius: 30  
 Reverse Angle: NA  
 Low Pitch Angle: 12.5 +/-0.2  
 Stud Protrusion

Startlock Angle: NA  
 Feather/High Angle: 25.5 +/-0.5  
 Cwt Angle: Positive

**Non-HPI Items:**

Non-HPI Spinner:

Non-HPI Governor: WOODWARD

**Hartzell Approved Items:**

| Item Type     | Item Number    | Description                   | Quantity | Qty Per | Comments                 |
|---------------|----------------|-------------------------------|----------|---------|--------------------------|
| PROPELLER     | A2F10022       | HC-A2MVF-1A/MV8433NS-6        | 1        | A/C     |                          |
| BLADE         | MV8433NS-6     | PCP:BLADE UNIT, ALUMINUM      | 2        | Prop    |                          |
| SPINNER       | 835-13         | SPINNER ASSEMBLY              | 1        | Prop    |                          |
| SPIN MTG KIT  | A-3817         | NUT,1/4-28,HEX,SELF-LOCKING   | 4        | Prop    | Secondary                |
| SPIN MTG KIT  | B-3384-17H     | BOLT, 1/4-28, HEX HEAD        | 4        | Prop    |                          |
| SPIN MTG KIT  | B-3808-4       | NUT,HEX,SELF-LOCKING          | 4        | Prop    | Primary                  |
| SPIN MTG KIT  | B-3851-0463    | WASHER                        | 4        | Prop    |                          |
| MTG BOLT/STUD | A-1328-1       | BOLT,MOUNTING,1/2-20,12 POINT | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-A2MVF-1A-OH | O/H KIT                       | 1        | Prop    | For aftermarket use only |

# HARTZELL

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BELLANCA

**Model:** 14-19-3  
**Trade Name:**  
**Aircraft T.C./STC:** 1A3  
**Propeller Model:** HC-A2MVF-1A  
**Propeller T.C.:** P24EA  
**Blade Model(s):** MV8433N-2  
**Prop Diameter:** 82.3" TO 80"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 14.0 +-0.2  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 296      **Rev.:** -      **DM Date:** 05/13/1998

**Modifier:**  
**Engine Model:** IO-470-F  
**Power:** 260 HP @ 2625 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 27.0 +-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:** WOODWARD

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>       | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|--------------------------|-----------------|----------------|-----------------|
| BLADE            | MV8433N-2          | PCP:BLADE UNIT, ALUMINUM | 2               | Prop           |                 |
| SPINNER          | 835-13             | SPINNER ASSEMBLY         | 1               | Prop           |                 |

BELLANCA

**Model:** 14-19-3, 14-19-3A  
**Trade Name:**  
**Aircraft T.C./STC:** 1A3  
**Propeller Model:** HC-C2YF-1A,-1B  
**Propeller T.C.:**  
**Blade Model(s):** F8468-4  
F8468A-4  
**Prop Diameter:** 80" NO CUT OFF

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.4 +-0.1  
**Stud Protrusion** 1.450 +-0.030

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 297      **Rev.:** -      **DM Date:** 08/17/1999

**Modifier:**  
**Engine Model:** IO-470-F  
**Power:** 260 HP @ 2625 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 31.0 +-0.5  
**Cwt Angle:**

**Non-HPI Governor:** WOODWARD

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>           | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|------------------------------|-----------------|----------------|-----------------|
| BLADE            | F8468-4            | PCP:BLADE UNIT, ALUMINUM     | 2               | Prop           |                 |
| BLADE            | F8468A-4           | PCP:BLADE UNIT, ALUM [1,1,1] | 2               | Prop           |                 |
| SPINNER          | 835-23             | SPINNER ASSEMBLY             | 1               | Prop           |                 |
| MTG BOLT/STUD    | A-2429-4           | STUD, MOUNTING, 1/2-20       | 6               | Prop           |                 |

# HARTZELL

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**BELLANCA**

**Model:** 14-19-3A  
**Trade Name:**  
**Aircraft T.C./STC:** STC-SA874SW  
**Propeller Model:** BHC-C2YF-1BF  
**Propeller T.C.:** P-920  
**Blade Model(s):** F8475-6  
**Prop Diameter:** 78"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** UNKNOWN  
**Stud Protrusion:** 1.450 +-0.030

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number     | Description                  | Quantity | Qty Per | Comments                 |
|---------------|-----------------|------------------------------|----------|---------|--------------------------|
| BLADE         | F8475-6         | PCP:BLADE UNIT, ALUM [1,1,1] | 2        | Prop    |                          |
| SPINNER       | 835-23          | SPINNER ASSEMBLY             | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2429-4        | STUD, MOUNTING, 1/2-20       | 6        | Prop    |                          |
| OVERHAUL KIT  | BHC-C2YF-1BF-OH | O/H KIT                      | 1        | Prop    | For aftermarket use only |

**IDS No.:** 299      **Rev.:** 1      **IC Date:** 07/07/2015

**Modifier:** AEROSTOL/PETERSON A/C REPAIR  
**Engine Model:** IO-520-B  
**Power:** 285 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** UNKNOWN  
**Cwt Angle:**

**Non-HPI Governor:**

**BELLANCA**

**Model:** 14-19-2  
**Trade Name:**  
**Aircraft T.C./STC:** 1A3  
**Propeller Model:** HC-82XF-1, HC-82XF-1A, HC-A2XF-1A  
**Propeller T.C.:** P24EA  
**Blade Model(s):** 8433-6  
**Prop Diameter:** 78.5" TO 78.0"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.5 +-0.2  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number | Description                      | Quantity | Qty Per | Comments  |
|---------------|-------------|----------------------------------|----------|---------|-----------|
| BLADE         | 8433-6      | BLADE                            | 2        | Prop    |           |
| SPINNER       | 835-13      | SPINNER ASSEMBLY                 | 1        | Prop    |           |
| SPIN MTG KIT  | A-3817      | NUT, 1/4-28, HEX, SELF-LOCKING   | 4        | Prop    | Secondary |
| SPIN MTG KIT  | B-3384-17H  | BOLT, 1/4-28, HEX HEAD           | 4        | Prop    |           |
| SPIN MTG KIT  | B-3808-4    | NUT, HEX, SELF-LOCKING           | 4        | Prop    | Primary   |
| SPIN MTG KIT  | B-3851-0463 | WASHER                           | 4        | Prop    |           |
| MTG BOLT/STUD | A-1328-1    | BOLT, MOUNTING, 1/2-20, 12 POINT | 6        | Prop    |           |

**IDS No.:** 2116      **Rev.:** -      **DM Date:** 11/20/2003

**Modifier:**  
**Engine Model:** O-470-K  
**Power:** 230 HP @ 2600 RPM  
**Placard/Restr:**

**Notes:**  
**Startlock Angle:** NA  
**Feather/High Angle:** 25.5 +-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:** WOODWARD

# HARTZELL

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BELLANCA

**Model:** 14-19-2  
**Trade Name:**  
**Aircraft T.C./STC:** 1A3  
**Propeller Model:** HC-A2VF-1A  
**Propeller T.C.:** P24EA  
**Blade Model(s):** V8433-6  
V8433N-6  
**Prop Diameter:** 78.5" TO 78.0"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.5 +/-0.2  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 2313 **Rev.:** - **DM Date:** 11/23/2003

**Modifier:**  
**Engine Model:** O-470-K  
**Power:** 230 HP @ 2600 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 25.5 +/-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:** WOODWARD

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>            | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|-------------------------------|-----------------|----------------|-----------------|
| BLADE            | V8433-6            | BLADE                         | 2               | Prop           |                 |
| BLADE            | V8433N-6           | BLADE                         | 2               | Prop           |                 |
| SPINNER          | 835-13             | SPINNER ASSEMBLY              | 1               | Prop           |                 |
| SPIN MTG KIT     | A-3817             | NUT,1/4-28,HEX,SELF-LOCKING   | 4               | Prop           | Secondary       |
| SPIN MTG KIT     | B-3384-17H         | BOLT, 1/4-28, HEX HEAD        | 4               | Prop           |                 |
| SPIN MTG KIT     | B-3808-4           | NUT,HEX,SELF-LOCKING          | 4               | Prop           | Primary         |
| SPIN MTG KIT     | B-3851-0463        | WASHER                        | 4               | Prop           |                 |
| MTG BOLT/STUD    | A-1328-1           | BOLT,MOUNTING,1/2-20,12 POINT | 6               | Prop           |                 |

BELLANCA

**Model:** 14-19-3  
**Trade Name:**  
**Aircraft T.C./STC:** 1A3  
**Propeller Model:** HC-82XF-1A, HC-A2XF-1A  
**Propeller T.C.:** P24EA  
**Blade Model(s):** 8433-2  
**Prop Diameter:** 82.3" TO 80"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 14.0 +/-0.2  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 2117 **Rev.:** - **DM Date:** 11/20/2003

**Modifier:**  
**Engine Model:** IO-470-F  
**Power:** 260 HP @ 2625 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 27.0 +/-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:** WOODWARD

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u> | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|--------------------|-----------------|----------------|-----------------|
| BLADE            | 8433-2             | BLADE              | 2               | Prop           |                 |
| SPINNER          | 835-13             | SPINNER ASSEMBLY   | 1               | Prop           |                 |

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BELLANCA

**Model:** 14-19-3  
**Trade Name:**  
**Aircraft T.C./STC:** 1A3  
**Propeller Model:** HC-82VF-1A, HC-A2VF-1A  
**Propeller T.C.:** P24EA  
**Blade Model(s):** V8433-2  
V8433N-2  
**Prop Diameter:** 82.3" TO 80"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 14.0 +-0.2  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 2118      **Rev.:** -      **DM Date:** 11/20/2003

**Modifier:**  
**Engine Model:** IO-470-F  
**Power:** 260 HP @ 2625 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 27.0 +-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:** WOODWARD

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u> | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|--------------------|-----------------|----------------|-----------------|
| BLADE            | V8433-2            | BLADE              | 2               | Prop           |                 |
| BLADE            | V8433N-2           | BLADE              | 2               | Prop           |                 |
| SPINNER          | 835-13             | SPINNER ASSEMBLY   | 1               | Prop           |                 |

BELLANCA

**Model:** 17-30  
**Trade Name:** VIKING  
**Aircraft T.C./STC:** 1A3  
**Propeller Model:** HC-C2YF-1F  
**Propeller T.C.:**  
**Blade Model(s):** F8475-6  
**Prop Diameter:** 78" TO 76"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 11.1 +-0.2  
**Stud Protrusion** 1.450 +-0.030

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 301      **Rev.:** -      **DM Date:** 06/06/2006

**Modifier:**  
**Engine Model:** IO-520-D  
**Power:** 300 HP @ 2850 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 36.2 0.5  
**Cwt Angle:**

**Non-HPI Governor:** WOODWARD

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>           | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|------------------------------|-----------------|----------------|-----------------|
| BLADE            | F8475-6            | PCP:BLADE UNIT, ALUM [1,1,1] | 2               | Prop           |                 |
| SPINNER          | C-3533             | SPINNER ASSEMBLY             | 1               | Prop           |                 |
| MTG BOLT/STUD    | A-2429-4           | STUD, MOUNTING, 1/2-20       | 6               | Prop           |                 |

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**BELLANCA**

**Model:** 17-30  
**Trade Name:** VIKING  
**Aircraft T.C./STC:** 1A3  
**Propeller Model:** HC-C3YF-1RF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** F8468-8R  
 F8468A-8R  
**Prop Diameter:** 78.0" TO 76.0"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 10.0 +-0.2  
**Stud Protrusion** 1.450 +-0.030

**Non-HPI Items:**

**Non-HPI Spinner:**

**IDS No.:** 302      **Rev.:** 1      **IC Date:** 07/16/2015

**Modifier:**  
**Engine Model:** IO-520-D  
**Power:** 300 HP @ 2850 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 32.5 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:** WOODWARD

**Hartzell Approved Items:**

| Item Type     | Item Number    | Description                  | Quantity | Qty Per | Comments                 |
|---------------|----------------|------------------------------|----------|---------|--------------------------|
| PROPELLER     | C3F00051       | HC-C3YF-1RF/F8468A-8R/SM5    | 1        | A/C     |                          |
| PROPELLER     | C3F00051KD     | HC-C3YF-1RF/F8468A-8R/SM5    | 1        | A/C     |                          |
| BLADE         | F8468-8R       | PCP:BLADE UNIT, ALUMINUM     | 3        | Prop    |                          |
| BLADE         | F8468A-8R      | PCP:BLADE UNIT, ALUM [1,1,1] | 3        | Prop    |                          |
| SPINNER       | C-3535         | SPINNER ASSEMBLY             | 1        | Prop    |                          |
| SPINNER       | C-3535-1       | SPINNER ASSEMBLY             | 1        | Prop    | For -1RF                 |
| SPIN MTG KIT  | A-2476-5       | SPINNER - MTG KIT            | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2429-4       | STUD, MOUNTING, 1/2-20       | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-C3YF-1RF-OH | O/H KIT                      | 1        | Prop    | For aftermarket use only |

**BELLANCA**

**Model:** 17-30A  
**Trade Name:** VIKING  
**Aircraft T.C./STC:** A18CE  
**Propeller Model:** HC-C2YF-1BF  
**Propeller T.C.:**  
**Blade Model(s):** F8475-6  
**Prop Diameter:** 78" TO 77"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 11.1 +-0.2  
**Stud Protrusion** 1.450 +-0.030

**Non-HPI Items:**

**Non-HPI Spinner:**

**IDS No.:** 303      **Rev.:** -      **DM Date:** 06/06/2006

**Modifier:**  
**Engine Model:** IO-520-K  
**Power:** 300 HP @ 2850 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 36.2 +-0.5  
**Cwt Angle:**

**Non-HPI Governor:** WOODWARD

**Hartzell Approved Items:**

| Item Type     | Item Number | Description                  | Quantity | Qty Per | Comments |
|---------------|-------------|------------------------------|----------|---------|----------|
| BLADE         | F8475-6     | PCP:BLADE UNIT, ALUM [1,1,1] | 2        | Prop    |          |
| SPINNER       | C-3533      | SPINNER ASSEMBLY             | 1        | Prop    |          |
| MTG BOLT/STUD | A-2429-4    | STUD, MOUNTING, 1/2-20       | 6        | Prop    |          |



# HARTZELL

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**BELLANCA**

**Model:** 17-30A  
**Trade Name:** VIKING  
**Aircraft T.C./STC:** A18CE  
**Propeller Model:** HC-C3YF-1,-1RF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** F8468A-8R  
**Prop Diameter:** 78" TO 76"

**IDS No.:** 304      **Rev.:** 1      **IC Date:** 07/16/2015

**Modifier:**  
**Engine Model:** IO-520-K  
**Power:** 300 HP @ 2850 RPM  
**Placard/Restr:**  
**Notes:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 10.0 +-0.2  
**Stud Protrusion** 1.450 +-0.030

**Startlock Angle:** NA  
**Feather/High Angle:** 32.5 +-1.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:** WOODWARD

**Hartzell Approved Items:**

| Item Type     | Item Number    | Description                  | Quantity | Qty Per | Comments                 |
|---------------|----------------|------------------------------|----------|---------|--------------------------|
| PROPELLER     | C3F00051       | HC-C3YF-1RF/F8468A-8R/SM5    | 1        | A/C     |                          |
| PROPELLER     | C3F00051KD     | HC-C3YF-1RF/F8468A-8R/SM5    | 1        | A/C     |                          |
| BLADE         | F8468A-8R      | PCP:BLADE UNIT, ALUM [1,1,1] | 3        | Prop    |                          |
| SPINNER       | C-3535         | SPINNER ASSEMBLY             | 1        | Prop    |                          |
| SPINNER       | C-3535-1       | SPINNER ASSEMBLY             | 1        | Prop    | For -1RF                 |
| SPIN MTG KIT  | A-2476-5       | SPINNER - MTG KIT            | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2429-4       | STUD, MOUNTING, 1/2-20       | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-C3YF-1RF-OH | O/H KIT                      | 1        | Prop    | For aftermarket use only |

**BELLANCA**

**Model:** 17-30A  
**Trade Name:** VIKING  
**Aircraft T.C./STC:** FAA Form 337  
**Propeller Model:** PHC-C3YF-1RF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** F8468A-6R  
**Prop Diameter:** 80.0" TO 78.0"

**IDS No.:** 1893      **Rev.:** 2      **IC Date:** 07/16/2015

**Modifier:** Jack J. & Patrick T. King  
**Engine Model:** IO-520-K  
**Power:** 300 HP @ 2850 RPM  
**Placard/Restr:**  
**Notes:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 10.0 +-0.2  
**Stud Protrusion** 1.450 +-0.030

**Startlock Angle:** NA  
**Feather/High Angle:** 33.0 +-1.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:** WOODWARD

**Hartzell Approved Items:**

| Item Type     | Item Number     | Description                  | Quantity | Qty Per | Comments                                   |
|---------------|-----------------|------------------------------|----------|---------|--|
| PROPELLER     | C3F00138        | PHC-C3YF-1RF/F8468A-6R/SM25  | 1        | A/C     |  |
| BLADE         | F8468A-6R       | PCP:BLADE UNIT, ALUM [1,1,1] | 3        | Prop    |  |
| SPINNER       | C-3535-1        | SPINNER ASSEMBLY             | 1        | Prop    |  |
| SPIN MTG KIT  | A-2476-25       | SPINNER - MTG KIT            | 1        | Prop    |  |
| MTG BOLT/STUD | A-2429-4        | STUD, MOUNTING, 1/2-20       | 6        | Prop    | Use w/E-7154-2R Hub Only                   |
| MTG BOLT/STUD | A-2429-7        | STUD, MOUNTING, 1/2-20       | 6        | Prop    | Use with E-7154-12R & E-7154-42R hubs only |
| OVERHAUL KIT  | PHC-C3YF-1RF*1  | O/H KIT W/O SLIMSERTS        | 1        | Prop    | For aftermarket use only                   |
| OVERHAUL KIT  | PHC-C3YF-1RF-OH | O/H KIT                      | 1        | Prop    | For aftermarket use only                   |

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BELLANCA

**Model:** 17-31A  
**Trade Name:** VIKING  
**Aircraft T.C./STC:** A18CE  
**Propeller Model:** HC-C2YR-1BF  
**Propeller T.C.:** P-920  
**Blade Model(s):** F8475D-4  
**Prop Diameter:** 80" TO 78"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.5 +-0.2  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 306      **Rev.:** -      **DM Date:** 04/15/1993

**Modifier:**  
**Engine Model:** IO-540-G1(E,F,B)5;-K1(E,B,A)5 300hp  
**Power:** 290 HP @ 2575 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 38.0 +-0.5  
**Cwt Angle:**

**Non-HPI Governor:** WOODWARD

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>           | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|------------------------------|-----------------|----------------|-----------------|
| BLADE            | F8475D-4           | PCP:BLADE UNIT, ALUM [1,1,1] | 2               | Prop           |                 |
| SPINNER          | A-3519             | SPINNER ASSEMBLY             | 1               | Prop           |                 |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20       | 6               | Prop           |                 |

BELLANCA

**Model:** 17-31  
**Trade Name:** VIKING  
**Aircraft T.C./STC:** 1A3  
**Propeller Model:** HC-C3YR-1, -1RF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** F8468A-6R  
**Prop Diameter:** 80" TO 78"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.0 +-0.2  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 305      **Rev.:** -      **DM Date:** 04/15/1993

**Modifier:**  
**Engine Model:** IO-540-G1B5  
**Power:** 290 HP @ 2575 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 38.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:** WOODWARD

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>           | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|------------------------------|-----------------|----------------|-----------------|
| BLADE            | F8468A-6R          | PCP:BLADE UNIT, ALUM [1,1,1] | 3               | Prop           |                 |
| SPINNER          | C-3552             | SPINNER ASSEMBLY             | 1               | Prop           |                 |
| SPINNER          | C-3552-1           | SPINNER ASSEMBLY             | 1               | Prop           | For -1RF        |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20       | 6               | Prop           |                 |

# HARTZELL

## APPLICATION GUIDE

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**BELLANCA**

**Model:** 17-31A  
**Trade Name:** VIKING  
**Aircraft T.C./STC:** 1A3  
**Propeller Model:** HC-C3YR-1,-1RF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** F8468-6R  
 F8468A-6R  
**Prop Diameter:** 80" TO 78"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.0 +-0.2  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**IDS No.:** 307 **Rev.:** - **DM Date:** 11/21/2007

**Modifier:**  
**Engine Model:** IO-540-G1(E,F,B)5;-K1(E,B,A)5 300hp  
**Power:** 290 HP @ 2575 RPM  
**Placard/Restr:**  
**Notes:** Now Alexandria Aircraft

**Startlock Angle:** NA  
**Feather/High Angle:** 38.0 +-0.5  
**Cwt Angle:**

**Non-HPI Governor:** WOODWARD

**Hartzell Approved Items:**

| Item Type     | Item Number | Description                  | Quantity | Qty Per | Comments |
|---------------|-------------|------------------------------|----------|---------|----------|
| PROPELLER     | C3R00069    | HC-C3YR-1RF/F8468A-6R        | 1        | A/C     |          |
| BLADE         | F8468-6R    | PCP:BLADE UNIT, ALUMINUM     | 3        | Prop    |          |
| BLADE         | F8468A-6R   | PCP:BLADE UNIT, ALUM [1,1,1] | 3        | Prop    |          |
| SPINNER       | C-3552      | SPINNER ASSEMBLY             | 1        | Prop    |          |
| SPINNER       | C-3552-1    | SPINNER ASSEMBLY             | 1        | Prop    | For -1RF |
| MTG BOLT/STUD | A-2067      | STUD, MOUNTING, 1/2-20       | 6        | Prop    |          |

**BELLANCA**

**Model:** 17-31 ATC  
**Trade Name:** VIKING (TURBO)  
**Aircraft T.C./STC:** 1A3  
**Propeller Model:** HC-C3YR-1,-1RF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** F8468-6R  
 F8468A-6R  
**Prop Diameter:** 80" TO 78"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.0 +-0.2  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**IDS No.:** 309 **Rev.:** 1 **IC Date:** 07/16/2015

**Modifier:**  
**Engine Model:** IO-540-G1(E,F)5,-K1(E,A,B)5 w/turbo  
**Power:** 300 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:** Now Alexandria Aircraft

**Startlock Angle:** NA  
**Feather/High Angle:** 38.0 +-0.5  
**Cwt Angle:**

**Non-HPI Governor:** WOODWARD, EDO AIRE

**Hartzell Approved Items:**

| Item Type     | Item Number    | Description                  | Quantity | Qty Per | Comments                 |
|---------------|----------------|------------------------------|----------|---------|--------------------------|
| PROPELLER     | C3R00069       | HC-C3YR-1RF/F8468A-6R        | 1        | A/C     |                          |
| BLADE         | F8468-6R       | PCP:BLADE UNIT, ALUMINUM     | 3        | Prop    |                          |
| BLADE         | F8468A-6R      | PCP:BLADE UNIT, ALUM [1,1,1] | 3        | Prop    |                          |
| SPINNER       | C-3552         | SPINNER ASSEMBLY             | 1        | Prop    |                          |
| SPINNER       | C-3552-1       | SPINNER ASSEMBLY             | 1        | Prop    | For -1RF                 |
| MTG BOLT/STUD | A-2067         | STUD, MOUNTING, 1/2-20       | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-C3YR-1RF-OH | O/H KIT                      | 1        | Prop    | For aftermarket use only |

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BELLANCA

**Model:** 17-31TC  
**Trade Name:** VIKING (TURBO)  
**Aircraft T.C./STC:** 1A3  
**Propeller Model:** HC-C3YR-1, -1RF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** F8468A-6R  
**Prop Diameter:** 80" TO 78"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.0 +-0.2  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 308      **Rev.:** -      **DM Date:** 04/15/1993

**Modifier:**  
**Engine Model:** IO-540-G1E5 (w/turbo)  
**Power:** 290 HP @ 2575 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 38.0 +-0.5  
**Cwt Angle:**

**Non-HPI Governor:** WOODWARD

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>           | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|------------------------------|-----------------|----------------|-----------------|
| BLADE            | F8468A-6R          | PCP:BLADE UNIT, ALUM [1,1,1] | 3               | Prop           |                 |
| SPINNER          | C-3552             | SPINNER ASSEMBLY             | 1               | Prop           |                 |
| SPINNER          | C-3552-1           | SPINNER ASSEMBLY             | 1               | Prop           | For -1RF        |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20       | 6               | Prop           |                 |

BELLANCA

**Model:** DW-1  
**Trade Name:** EAGLE  
**Aircraft T.C./STC:** A4NW  
**Propeller Model:** HA-82V20-1B, HA-A2V20-1B  
**Propeller T.C.:** P59GL  
**Blade Model(s):** V10133N  
**Prop Diameter:** 101"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 17.0 +-0.2  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 2121      **Rev.:** -      **DM Date:** 11/20/2003

**Modifier:**  
**Engine Model:** W670-6N,-6A (R-670-4,-5)  
**Power:** 220 HP @ 2075 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:**  
**Cwt Angle:** NA

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>         | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|----------------------------|-----------------|----------------|-----------------|
| BLADE            | V10133N            | BLADE UNIT, ALUMINUM       | 2               | Prop           |                 |
| MTG BOLT/STUD    | A-63B              | PCP: NUT, SHAFT, 20 SPLINE | 1               | Prop           |                 |
| MTG BOLT/STUD    | A-63-B             | NUT,SHAFT,20 SPLINE        | 1               | Prop           |                 |

# HARTZELL

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**BELLANCA**

**Model:** DW-1  
**Trade Name:** EAGLE  
**Aircraft T.C./STC:** A4NW  
**Propeller Model:** HC-C3YR-1RF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** F8468-2R  
 F8468A-2R  
**Prop Diameter:** 84" TO 78"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 10.5 +-0.2  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number | Description                  | Quantity | Qty Per | Comments |
|---------------|-------------|------------------------------|----------|---------|----------|
| BLADE         | F8468-2R    | PCP:BLADE UNIT, ALUMINUM     | 3        | Prop    |          |
| BLADE         | F8468A-2R   | PCP:BLADE UNIT, ALUM [1,1,1] | 3        | Prop    |          |
| SPINNER       | C-3570      | SPINNER ASSEMBLY             | 1        | Prop    |          |
| GOVERNOR      | F4-11B      | GOVERNOR ASSEMBLY, F-4-( )   | 1        | A/C     |          |
| MTG BOLT/STUD | A-2067      | STUD, MOUNTING, 1/2-20       | 6        | Prop    |          |

**IDS No.:** 311      **Rev.:** -      **DM Date:** 10/01/1992

**Modifier:**  
**Engine Model:** IO-540-M1B5D  
**Power:** 300 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 37.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

**BELLANCA (ALEXANDRIA A/C LLC)**

**Model:** DW-1  
**Trade Name:** EAGLE  
**Aircraft T.C./STC:** A4NW  
**Propeller Model:** HA-A2MV20-1B  
**Propeller T.C.:** P59GL  
**Blade Model(s):** MV10133N  
**Prop Diameter:** 101"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 17.0 +-0.2  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number | Description                | Quantity | Qty Per | Comments |
|---------------|-------------|----------------------------|----------|---------|----------|
| PROPELLER     | A2210003    | HA-A2MV20-1B/MV10133N      | 1        | A/C     |          |
| BLADE         | MV10133N    | PCP:BLADE UNIT, ALUMINUM   | 2        | Prop    |          |
| MTG BOLT/STUD | A-63B       | PCP: NUT, SHAFT, 20 SPLINE | 1        | Prop    |          |
| MTG BOLT/STUD | A-63-B      | NUT,SHAFT,20 SPLINE        | 1        | Prop    |          |

**IDS No.:** 310      **Rev.:** -      **DM Date:** 08/09/2006

**Modifier:**  
**Engine Model:** W670-6N,-6A (R-670-4,-5)  
**Power:** 220 HP @ 2075 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** NA (GROUND ADJUSTABLE)  
**Cwt Angle:** NA

**Non-HPI Governor:**

# HARTZELL

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### BLACKSHAPE AIRCRAFT

**Model:** BS115  
**Trade Name:** BK160  
**Aircraft T.C./STC:** EASA.A.607  
**Propeller Model:** 3C1-L675A1  
**Propeller T.C.:** P00016CH  
**Blade Model(s):** 76C03-7  
**Prop Diameter:** 69"

#### Prop Setup:

**Ref. Radius:** 30"  
**Reverse Angle:**  
**Low Pitch Angle:** 9.5+-0.2  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 3531      **Rev.:** 1      **IC Date:** 05/10/2017

**Modifier:**

**Engine Model:** IO-320-D1B

**Power:** 160 HP @ 2700 RPM

**Placard/Restr:** None.

**Notes:**

**Startlock Angle:**

**Feather/High Angle:** 29.0 +-1.0

**Cwt Angle:**

#### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>               | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|----------------------------------|-----------------|----------------|-----------------|
| PROPELLER        | 3CL00400           | 3C1-L675A1/76C03-7/SM47          | 1               | A/C            |                 |
| BLADE            | 76C03-7            | PCP:BLADE ASSEMBLY, COMPOSITE    | 3               | Prop           |                 |
| SPINNER          | 105890             | SPINNER ASSEMBLY                 | 1               | Prop           |                 |
| SPINNER          | 105890P            | SPINNER ASSEMBLY                 | 1               | Prop           |                 |
| GOVERNOR         | S-1-78             | GOVERNOR ASSEMBLY, S-1-78        | 1               | Prop           |                 |
| SPIN MTG KIT     | A-2476-47          | SPINNER - MTG KIT                | 1               | Prop           |                 |
| MTG BOLT/STUD    | A-2247-1           | STUD, MOUNTING, 7/16-20, DRILLED | 6               | Prop           |                 |

### BRITISH AEROSPACE

**Model:** A109  
**Trade Name:** AIRDALE  
**Aircraft T.C./STC:** FIELD APPROVAL  
**Propeller Model:** HC-C2YR-1BF  
**Propeller T.C.:** P-920  
  
**Blade Model(s):** F7666A-2  
**Prop Diameter:** 74" TO 72"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** N/A  
**Low Pitch Angle:** 14.0 +-0.2  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 2612      **Rev.:** 1      **IC Date:** 07/07/2015

**Modifier:**

**Engine Model:** IO-360-A1A

**Power:** 180 HP @ 2700 RPM

**Placard/Restr:** Avoid continuous operation between 2000 and 2250 RPM.

**Notes:**

**Startlock Angle:** N/A

**Feather/High Angle:** 29.0 +-1.0

**Cwt Angle:** N/A

#### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>       | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|--------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | C2R00022           | HC-C2YR-1BF/F7666A-2     | 1               | A/C            |                          |
| BLADE            | F7666A-2           | PCP:BLADE UNIT, ALUMINUM | 2               | Prop           |                          |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20   | 6               | Prop           |                          |
| MISC ACCES       | A-7277-2           | HARDWARE - KIT           | 1               | Prop           |                          |
| OVERHAUL KIT     | HC-C2YR-1BF-OH     | O/H KIT                  | 1               | Prop           | For aftermarket use only |

# HARTZELL

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BRITTEN-NORMAN LTD

IDS No.: 314 Rev.: 2 IC Date: 07/07/2015

**Model:** BN-2; BN-2A; BN-2A-6, -8, -9; BN-2(A,B)-26, -27

**Modifier:**

**Trade Name:** ISLANDER

**Engine Model:** O-540-E4C5

**Aircraft T.C./STC:** A17EU

**Power:** 260 HP @ 2700 RPM

**Propeller Model:** HC-C2YK-2BF, -2CUF

**Placard/Restr:** Refer to 8110-3 and/or TC A17EU.

**Propeller T.C.:** P-920

**Notes:**

**Blade Model(s):** FC8477-4

FC8477A-4

FC8477AB-4\*1

FC8477B-4

**Prop Diameter:** 80.0" TO 78.0"

**Prop Setup:**

**Ref. Radius:** 30

**Startlock Angle:** 18.0 +-1.5

**Reverse Angle:** NA

**Feather/High Angle:** 78.6 +-0.5

**Low Pitch Angle:** 12.5 +-0.1

**Cwt Angle:**

**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:** WOODWARD

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>            | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|-------------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | C2K00500           | HC-C2YK-2CUF/FC8477A-4        | 2               | A/C            |                          |
| BLADE            | FC8477-4           | IDS ITEM, BLADE, B-3202H-4    | 2               | Prop           |                          |
| BLADE            | FC8477A-4          | PCP:BLADE UNIT, B-3202H-4     | 2               | Prop           |                          |
| BLADE            | FC8477AB-4*1       | PCP:BLADE UNIT, 4H1188-4      | 2               | Prop           |                          |
| BLADE            | FC8477B-4          | IDS ITEM, 4E1188-4, B-3202H-4 | 2               | Prop           |                          |
| SPINNER          | 836-29             | SPINNER ASSEMBLY              | 1               | Prop           |                          |
| COUNTERWEIGHT    | B-3202H-4          | PCP:COUNTERWEIGHT             | 1               | Blade          | Blade Component          |
| DE-ICER          | 4H1188-4           | DE-ICE BOOT                   | 1               | Blade          | Supersedes 7931-4E1188-4 |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20        | 6               | Prop           |                          |
| OVERHAUL KIT     | HC-C2YK-2CUF-OH    | O/H KIT                       | 1               | Prop           | For aftermarket use only |

# HARTZELL

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BRITTEN-NORMAN LTD

IDS No.: 315      Rev.: 4      IC      Date: 07/07/2015

**Model:** BN-2A-2,-3,-20,-21; BN-2B-20,-21  
**Trade Name:** ISLANDER  
**Aircraft T.C./STC:** A17EU  
**Propeller Model:** HC-C2YK-2(B,C)(U)(F)  
**Propeller T.C.:** P-920

**Modifier:**  
**Engine Model:** IO-540-K1B5  
**Power:** 300 HP @ 2700 RPM  
**Placard/Restr:** Do not exceed 23 inches Hg manifold pressure below 2250 RPM.

**Blade Model(s):** FC8477-4  
 FC8477A-4  
 FC8477A-6  
 FC8477AB-4\*1  
 FC8477B-4

**Notes:**

**Prop Diameter:** 80" to 78"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.5 +-0.1  
**Stud Protrusion**

**Startlock Angle:** 18.0 +-1.5  
**Feather/High Angle:** 78.6 +-0.5  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:** WOODWARD

**Hartzell Approved Items:**

| Item Type     | Item Number     | Description                   | Quantity | Qty Per | Comments                 |
|---------------|-----------------|-------------------------------|----------|---------|--------------------------|
| PROPELLER     | C2K00499        | HC-C2YK-2CUF/FC8477A-4        | 2        | A/C     |                          |
| PROPELLER     | C2K00501        | HC-C2YK-2CUF/FC8477AB-4[*1]   | 2        | A/C     |                          |
| PROPELLER     | C2K00505        | HC-C2YK-2CUF/FC8477A-6        | 2        | A/C     |                          |
| BLADE         | FC8477-4        | IDS ITEM, BLADE, B-3202H-4    | 2        | Prop    |                          |
| BLADE         | FC8477A-4       | PCP:BLADE UNIT, B-3202H-4     | 2        | Prop    |                          |
| BLADE         | FC8477A-6       | PCP:BLADE UNIT, ALUMINUM      | 2        | Prop    |                          |
| BLADE         | FC8477AB-4*1    | PCP:BLADE UNIT, 4H1188-4      | 2        | Prop    |                          |
| BLADE         | FC8477B-4       | IDS ITEM, 4E1188-4, B-3202H-4 | 2        | Prop    |                          |
| SPINNER       | 836-29          | SPINNER ASSEMBLY              | 1        | Prop    |                          |
| SPINNER       | 836-29P         | SPINNER ASSEMBLY              | 1        | Prop    |                          |
| COUNTERWEIGHT | B-3202H-4       | PCP:COUNTERWEIGHT             | 1        | Blade   | Blade Component          |
| DE-ICER       | 4H1188-4        | DE-ICE BOOT                   | 1        | Blade   |                          |
| DE-ICE KIT PR | 7931-77-815     | IDS ITEM ONLY, NON AC         | 1        | Prop    |                          |
| DE-ICE KIT PR | 7931-77-815-1A  | IDS ITEM ONLY, AC             | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2067          | STUD, MOUNTING, 1/2-20        | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-C2YK-2CUF-OH | O/H KIT                       | 1        | Prop    | For aftermarket use only |



# HARTZELL

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BRITTEN-NORMAN LTD

IDS No.: 313      Rev.: 1      IC      Date: 07/07/2015

**Model:** BN-2A MK III, MK III-2,-3

**Trade Name:** TRISLANDER

**Aircraft T.C./STC:** A29EU

**Propeller Model:** HC-C2YK-2CUF

**Propeller T.C.:** P-920

**Blade Model(s):** FC8477A-4

FC8477AB-4\*1

**Prop Diameter:** 80.0" TO 78.0"

**Prop Setup:**

**Ref. Radius:** 30

**Reverse Angle:** NA

**Low Pitch Angle:** 12.5 +-0.1

**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Modifier:**

**Engine Model:** O-540-E4C5

**Power:** 260 HP @ 2700 RPM

**Placard/Restr:**

**Notes:**

**Startlock Angle:** 18.0 +-1.5

**Feather/High Angle:** 78.6 +-0.5

**Cwt Angle:**

**Non-HPI Governor:** WOODWARD

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>          | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|-----------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | C2K00501           | HC-C2YK-2CUF/FC8477AB-4[*1] | 3               | A/C            |                          |
| BLADE            | FC8477A-4          | PCP:BLADE UNIT, B-3202H-4   | 2               | Prop           |                          |
| BLADE            | FC8477AB-4*1       | PCP:BLADE UNIT, 4H1188-4    | 2               | Prop           |                          |
| SPINNER          | 836-29             | SPINNER ASSEMBLY            | 1               | Prop           |                          |
| SPINNER          | 836-29P            | SPINNER ASSEMBLY            | 1               | Prop           |                          |
| COUNTERWEIGHT    | B-3202H-4          | PCP:COUNTERWEIGHT           | 1               | Blade          | Blade Component          |
| DE-ICER          | 4H1188-4           | DE-ICE BOOT                 | 1               | Blade          | Supersedes 7931-4E1188-4 |
| DE-ICE KIT PR    | 7931-5E2683-1      | IDS ITEM - DE-ICE KIT       | 1               | Prop           |                          |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20      | 6               | Prop           |                          |
| OVERHAUL KIT     | HC-C2YK-2CUF-OH    | O/H KIT                     | 1               | Prop           | For aftermarket use only |

# HARTZELL

## APPLICATION GUIDE

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BRITTEN-NORMAN LTD

IDS No.: 1254 Rev.: 3 IC Date: 07/15/2015

**Model:** BN-2A MkIII  
**Trade Name:** TRISLANDER  
**Aircraft T.C./STC:** A29EU  
**Propeller Model:** HC-C3YR-2UF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** FC8468-8R\*3  
 FC8468-8R\*4  
**Prop Diameter:** 78"

**Modifier:**  
**Engine Model:** O-540-E4C5  
**Power:** 260 HP @ 2700 RPM  
**Placard/Restr:**

**Notes:** Trislander is a three engine aircraft.

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.0 +-0.1  
**Stud Protrusion**

**Startlock Angle:** 17.5 +-1.5  
**Feather/High Angle:** 81.1 +-0.5  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:** WOODWARD

**Hartzell Approved Items:**

| Item Type     | Item Number    | Description                    | Quantity | Qty Per | Comments                 |
|---------------|----------------|--------------------------------|----------|---------|--------------------------|
| PROPELLER     | C3R00216       | HC-C3YR-2UF/FC8468-8R[*3]/SM9  | 3        | A/C     |                          |
| PROPELLER     | C3R00220       | HC-C3YR-2UF/FC8468-8R[*4]/SM9  | 3        | A/C     |                          |
| PROPELLER     | C3R00220KD     | HC-C3YR-2UF/FC8468-8R[*4]/SM9  | 3        | A/C     |                          |
| BLADE         | FC8468-8R*3    | PCP:BLADE UNIT, ALUM B-3202H-5 | 3        | Prop    |                          |
| BLADE         | FC8468-8R*4    | PCP:BLADE UNIT B-3202H-2 CWT   | 3        | Prop    |                          |
| SPINNER       | C-4558-2P      | SPINNER ASSEMBLY               | 1        | Prop    |                          |
| SPIN MTG KIT  | A-2476-9       | SPINNER - MTG KIT              | 1        | Prop    |                          |
| COUNTERWEIGHT | B-3202H-2      | PCP:COUNTERWEIGHT              | 1        | Blade   |                          |
| COUNTERWEIGHT | B-3202H-5      | PCP:COUNTERWEIGHT              | 1        | Blade   |                          |
| MTG BOLT/STUD | A-2067         | STUD, MOUNTING, 1/2-20         | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-C3YR-2UF-OH | O/H KIT                        | 1        | Prop    | For aftermarket use only |

# HARTZELL

## APPLICATION GUIDE 159

BRITTEN-NORMAN LTD

IDS No.: 316      Rev.: 2      IC      Date: 07/15/2015

**Model:** BN-2T  
**Trade Name:** TURBINE ISLANDER  
**Aircraft T.C./STC:** A17EU  
**Propeller Model:** HC-C3YF-5F  
**Propeller T.C.:** P25EA  
**Blade Model(s):** FC8475F-6  
 FC8475FK-6  
**Prop Diameter:** 80.0" TO 78.0"

**Modifier:**  
**Engine Model:** 250-B17C  
**Power:** 320 HP @ 2030 RPM  
**Placard/Restr:** Refer to 8110-3 and/or TC A17EU.  
**Notes:** "High pitch stop" latches are replaced with a spacer thus eliminating the high pitch stop position while retaining the feathering spring.

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 9.0 +-0.2  
**Stud Protrusion** 1.450 +-0.030

**Startlock Angle:** NA  
**Feather/High Angle:** 82.5 +-0.5  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:** WOODWARD

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>        | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>           |
|------------------|--------------------|---------------------------|-----------------|----------------|---------------------------|
| PROPELLER        | C3F00820           | HC-C3YF-5F/FC8475F-6/SM9  | 2               | A/C            |                           |
| PROPELLER        | C3F00822           | HC-C3YF-5F/FC8475FK-6/SM9 | 2               | A/C            |                           |
| PROPELLER        | C3F00822KD         | HC-C3YF-5F/FC8475FK-6/SM9 | 2               | A/C            |                           |
| BLADE            | FC8475F-6          | PCP:BLADE UNIT, ALUMINUM  | 3               | Prop           |                           |
| BLADE            | FC8475FK-6         | PCP:BLADE UNIT, ALUMINUM  | 3               | Prop           |                           |
| SPINNER          | C-4558-3P          | SPINNER ASSEMBLY          | 1               | Prop           |                           |
| SPIN MTG KIT     | A-2476-9           | SPINNER - MTG KIT         | 1               | Prop           |                           |
| COUNTERWEIGHT    | B-3202H-2          | PCP:COUNTERWEIGHT         | 1               | Blade          | Blade Component           |
| DE-ICER          | 4H2271-10          | DE-ICE BOOT               | 1               | Blade          | Supersedes 7931-4E2271-10 |
| DE-ICE KIT PR    | 7931-67-315-1      | DE-ICE KIT (ONE PROP)     | 1               | Prop           |                           |
| MTG BOLT/STUD    | A-2429-4           | STUD, MOUNTING, 1/2-20    | 6               | Prop           |                           |
| OVERHAUL KIT     | HC-C3YF-5F-OH      | O/H KIT                   | 1               | Prop           | For aftermarket use only  |

# HARTZELL

## APPLICATION GUIDE

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BRITTEN-NORMAN LTD

**Model:** BN-2T-4R, 4S  
**Trade Name:** TURBINE ISLANDER  
**Aircraft T.C./STC:** A17EU  
**Propeller Model:** HC-C3YF-5F  
**Propeller T.C.:** P25EA  
**Blade Model(s):** FC7818K  
**Prop Diameter:** 80.0" TO 78.0"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 9.0 +-0.2  
**Stud Protrusion** 1.450 +-0.030

**Non-HPI Items:**

**Non-HPI Spinner:**

**IDS No.:** 1252      **Rev.:** 2      **IC Date:** 07/15/2015

**Modifier:**

**Engine Model:** 250-B17F/1

**Power:** 400 HP @ 2030 RPM

**Placard/Restr:**

**Notes:** Aircraft TC no. does not apply to BN-2T-4S (Military "Defender 4000").

**Startlock Angle:** NA

**Feather/High Angle:** 81.1 +-0.5

**Cwt Angle:**

**Non-HPI Governor:** WOODWARD

**Hartzell Approved Items:**

| Item Type     | Item Number   | Description              | Quantity | Qty Per | Comments                 |
|---------------|---------------|--------------------------|----------|---------|--------------------------|
| PROPELLER     | C3F00830      | HC-C3YF-5F/FC7818K/SM9   | 2        | A/C     |                          |
| PROPELLER     | C3F00830KD    | HC-C3YF-5F/FC7818K/SM9   | 2        | A/C     |                          |
| BLADE         | FC7818K       | PCP:BLADE UNIT, ALUMINUM | 3        | Prop    |                          |
| SPINNER       | C-4558-3P     | SPINNER ASSEMBLY         | 1        | Prop    |                          |
| SPIN MTG KIT  | A-2476-9      | SPINNER - MTG KIT        | 1        | Prop    |                          |
| COUNTERWEIGHT | B-3202H-6     | PCP:COUNTERWEIGHT        | 1        | Blade   | Blade Component          |
| DE-ICER       | 4H3101-1      | DE-ICE BOOT, FOIL        | 1        | Blade   | Supersedes 7931-4E3101-1 |
| DE-ICE KIT PR | 7931-67-850-1 | DE-ICE KIT (ONE PROP)    | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2429-4      | STUD, MOUNTING, 1/2-20   | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-C3YF-5F-OH | O/H KIT                  | 1        | Prop    | For aftermarket use only |

BRITTEN-NORMAN LTD

**Model:** BN-2T-4, BN-2T-4R  
**Trade Name:** TURBINE ISLANDER  
**Aircraft T.C./STC:** Unknown  
**Propeller Model:** HC-C3YF-5F  
**Propeller T.C.:** P25EA  
**Blade Model(s):** FC7818K  
**Prop Diameter:** 80"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 9.0 +-0.2  
**Stud Protrusion** 1.450 +-0.030

**Non-HPI Items:**

**Non-HPI Spinner:**

**IDS No.:** 317      **Rev.:** -      **DM Date:** 02/14/2008

**Modifier:**

**Engine Model:** 250-B17C, -B17F

**Power:** 400 HP @ 2030 RPM

**Placard/Restr:**

**Notes:**

**Startlock Angle:** NA

**Feather/High Angle:** 81.1 +-0.5

**Cwt Angle:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type     | Item Number   | Description              | Quantity | Qty Per | Comments                 |
|---------------|---------------|--------------------------|----------|---------|--------------------------|
| BLADE         | FC7818K       | PCP:BLADE UNIT, ALUMINUM | 3        | Prop    |                          |
| SPINNER       | C-4558-3P     | SPINNER ASSEMBLY         | 1        | Prop    |                          |
| COUNTERWEIGHT | B-3202H-6     | PCP:COUNTERWEIGHT        | 1        | Blade   | Blade Component          |
| DE-ICER       | 4H3101-1      | DE-ICE BOOT, FOIL        | 1        | Blade   | Supersedes 7931-4E3101-1 |
| DE-ICE KIT PR | 7931-67-850-1 | DE-ICE KIT (ONE PROP)    | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2429-4      | STUD, MOUNTING, 1/2-20   | 6        | Prop    |                          |

# HARTZELL

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**BRITTEN-NORMAN LTD**

**Model:** BN-2  
**Trade Name:** ISLANDER  
**Aircraft T.C./STC:** Unknown  
**Propeller Model:** HC-C3YR-2UF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** FC7663D-2Q\*1  
**Prop Diameter:** 76"

**IDS No.:** 320      **Rev.:** -      **DM Date:** 07/21/1999

**Modifier:** MT PROPELLER  
**Engine Model:** O-540-E4C5  
**Power:** 260 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 10.7 +-0.1  
**Stud Protrusion**

**Startlock Angle:** 16.2 +-1.5  
**Feather/High Angle:** 80.1 +-0.5  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type     | Item Number  | Description              | Quantity | Qty Per | Comments        |
|---------------|--------------|--------------------------|----------|---------|-----------------|
| BLADE         | FC7663D-2Q*1 | IDS ITEM, BLADE, [1,3,1] | 3        | Prop    |                 |
| SPINNER       | C-4558-2     | SPINNER ASSEMBLY         | 1        | Prop    |                 |
| SPINNER       | C-4558-2P    | SPINNER ASSEMBLY         | 1        | Prop    |                 |
| SPIN MTG KIT  | A-2476-9     | SPINNER - MTG KIT        | 1        | Prop    |                 |
| COUNTERWEIGHT | B-3202H-5    | PCP:COUNTERWEIGHT        | 1        | Blade   | Blade Component |
| MTG BOLT/STUD | A-2067       | STUD, MOUNTING, 1/2-20   | 6        | Prop    |                 |

**BRITTEN-NORMAN LTD**

**Model:** BN-2B-26, BN-2B-27  
**Trade Name:** ISLANDER  
**Aircraft T.C./STC:** A17EU  
**Propeller Model:** HC-C3YR-2UF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** FC8468-8R\*3  
 FC8468-8R\*4  
**Prop Diameter:** 78"

**IDS No.:** 319      **Rev.:** 2      **IC Date:** 07/15/2015

**Modifier:**  
**Engine Model:** O-540-E4C5  
**Power:** 260 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.0 +-0.1  
**Stud Protrusion**

**Startlock Angle:** 17.5 +-1.5  
**Feather/High Angle:** 81.1 +-0.5  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type     | Item Number    | Description                    | Quantity | Qty Per | Comments                 |
|---------------|----------------|--------------------------------|----------|---------|--------------------------|
| PROPELLER     | C3R00216       | HC-C3YR-2UF/FC8468-8R[*3]/SM9  | 2        | A/C     |                          |
| BLADE         | FC8468-8R*3    | PCP:BLADE UNIT, ALUM B-3202H-5 | 3        | Prop    |                          |
| BLADE         | FC8468-8R*4    | PCP:BLADE UNIT B-3202H-2 CWT   | 3        | Prop    |                          |
| SPINNER       | C-4558-2       | SPINNER ASSEMBLY               | 1        | Prop    |                          |
| SPINNER       | C-4558-2P      | SPINNER ASSEMBLY               | 1        | Prop    |                          |
| SPIN MTG KIT  | A-2476-9       | SPINNER - MTG KIT              | 1        | Prop    |                          |
| COUNTERWEIGHT | B-3202H-2      | PCP:COUNTERWEIGHT              | 1        | Blade   |                          |
| COUNTERWEIGHT | B-3202H-5      | PCP:COUNTERWEIGHT              | 1        | Blade   |                          |
| MTG BOLT/STUD | A-2067         | STUD, MOUNTING, 1/2-20         | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-C3YR-2UF-OH | O/H KIT                        | 1        | Prop    | For aftermarket use only |

# HARTZELL

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BRITTEN-NORMAN LTD

IDS No.: 1631 Rev.: 3 IC Date: 07/15/2015

**Model:** BN2B-20, BN2B-21  
**Trade Name:** ISLANDER  
**Aircraft T.C./STC:** BA8 (UK) (see note)  
**Propeller Model:** HC-C3YR-2UF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** FC7693F  
 FC7693FB  
**Prop Diameter:** 78"

**Modifier:**  
**Engine Model:** IO-540-K1B5  
**Power:** 300 HP @ 2700 RPM  
**Placard/Restr:**

**Notes:** EASA Major Change Approval 10031188

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.5 +-0.1  
**Stud Protrusion**

**Startlock Angle:** 18.0 +-1.5

**Feather/High Angle:** 85.0 +-0.5

**Cwt Angle:**

### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>         | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|----------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | C3R00194           | HC-C3YR-2UF/FC7693F/SM9    | 2               | A/C            |                          |
| PROPELLER        | C3R00194KD         | HC-C3YR-2UF/FC7693F/SM9    | 2               | A/C            |                          |
| BLADE            | FC7693F            | PCP:BLADE UNIT, ALUMINUM   | 3               | Prop           |                          |
| BLADE            | FC7693FB           | IDS ITEM [1,3,1] B-3202H-5 | 3               | Prop           |                          |
| SPINNER          | C-4558-2P          | SPINNER ASSEMBLY           | 1               | Prop           |                          |
| SPIN MTG KIT     | A-2476-9           | SPINNER - MTG KIT          | 1               | Prop           |                          |
| COUNTERWEIGHT    | B-3202H-5          | PCP:COUNTERWEIGHT          | 1               | Blade          | Blade Component          |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20     | 6               | Prop           |                          |
| OVERHAUL KIT     | HC-C3YR-2UF-OH     | O/H KIT                    | 1               | Prop           | For aftermarket use only |

# HARTZELL

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**BRITTEN-NORMAN LTD**

IDS No.: 1253 Rev.: 1 IC Date: 07/15/2015

Model: PBN  
 Trade Name: ISLANDER  
 Aircraft T.C./STC: Unknown  
 Propeller Model: HC-C3YR-2UF  
 Propeller T.C.: P25EA  
 Blade Model(s): FC8468-8R\*3  
 FC8468-8R\*4  
 Prop Diameter: 78"

Modifier:  
 Engine Model: IO-540-K1B5  
 Power: 300 HP @ 2700 RPM  
 Placard/Restr:  
 Notes:

**Prop Setup:**

Ref. Radius: 30  
 Reverse Angle: NA  
 Low Pitch Angle: 12.0 +-0.1  
 Stud Protrusion

Startlock Angle: 17.5 +-1.5  
 Feather/High Angle: 81.1 +-0.5  
 Cwt Angle:

**Non-HPI Items:**

Non-HPI Spinner:

Non-HPI Governor:

**Hartzell Approved Items:**

| Item Type     | Item Number    | Description                    | Quantity | Qty Per | Comments                 |
|---------------|----------------|--------------------------------|----------|---------|--------------------------|
| PROPELLER     | C3R00216       | HC-C3YR-2UF/FC8468-8R[*3]/SM9  | 2        | A/C     |                          |
| BLADE         | FC8468-8R*3    | PCP:BLADE UNIT, ALUM B-3202H-5 | 3        | Prop    |                          |
| BLADE         | FC8468-8R*4    | PCP:BLADE UNIT B-3202H-2 CWT   | 3        | Prop    |                          |
| COUNTERWEIGHT | B-3202H-2      | PCP:COUNTERWEIGHT              | 1        | Blade   |                          |
| COUNTERWEIGHT | B-3202H-5      | PCP:COUNTERWEIGHT              | 1        | Blade   |                          |
| MTG BOLT/STUD | A-2067         | STUD, MOUNTING, 1/2-20         | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-C3YR-2UF-OH | O/H KIT                        | 1        | Prop    | For aftermarket use only |

**BUSHBY**

IDS No.: 325 Rev.: - DM Date: 02/11/1998

Model: MUSTANG II  
 Trade Name:  
 Aircraft T.C./STC: Experimental  
 Propeller Model: HC-F2YL-1BF  
 Propeller T.C.:  
 Blade Model(s): F7663A-3  
 F7663A-6  
 Prop Diameter: 70", 73"

Modifier:  
 Engine Model: IO-320-B1A  
 Power: 160 HP @ 2700 RPM  
 Placard/Restr:  
 Notes:

**Prop Setup:**

Ref. Radius: 30  
 Reverse Angle: NA  
 Low Pitch Angle: 12.0 +-0.1  
 Stud Protrusion

Startlock Angle: NA  
 Feather/High Angle: 30.0 +-1.0  
 Cwt Angle:

**Non-HPI Items:**

Non-HPI Spinner:

Non-HPI Governor:

**Hartzell Approved Items:**

| Item Type     | Item Number | Description                      | Quantity | Qty Per | Comments |
|---------------|-------------|----------------------------------|----------|---------|----------|
| BLADE         | F7663A-3    | PCP:BLADE UNIT, ALUMINUM         | 2        | Prop    |          |
| BLADE         | F7663A-6    | PCP:BLADE UNIT, ALUMINUM         | 2        | Prop    |          |
| SPINNER       | C-4565      | SPINNER ASSEMBLY                 | 1        | Prop    |          |
| GOVERNOR      | F2-7AZ      | GOVERNOR ASSEMBLY, F-2-( )       | 1        | A/C     |          |
| MTG BOLT/STUD | A-2247-1    | STUD, MOUNTING, 7/16-20, DRILLED | 6        | Prop    |          |

# HARTZELL

BUSHMASTER AIRCRAFT CORP.

**Model:** BUSHMASTER 2000

**Trade Name:**

**Aircraft T.C./STC:** A19WE

**Propeller Model:** HC-B3R30-2EA

**Propeller T.C.:** P28EA

**Blade Model(s):** R10152-5.5  
R10152N-5.5

**Prop Diameter:** 95.5" NO CUT OFF

## Prop Setup:

**Ref. Radius:** 30

**Reverse Angle:** NA

**Low Pitch Angle:** 17.0 +/-0.5

**Stud Protrusion**

## Non-HPI Items:

**Non-HPI Spinner:**

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**IDS No.:** 326      **Rev.:** 1      **D**      **Date:** 01/07/2011

**Modifier:**

**Engine Model:** R985-AN1, -AN-14B,

**Power:** 450 HP @ 2300 RPM

**Placard/Restr:**

**Notes:**

**Startlock Angle:** NA

**Feather/High Angle:** 88.0 +/-0.5

**Cwt Angle:** Positive

**Non-HPI Governor:**

## Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>        | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>         |
|------------------|--------------------|---------------------------|-----------------|----------------|-------------------------|
| BLADE            | R10152-5.5         | PCP:BLADE UNIT, ALUMINUM  | 3               | Prop           | REPLACED BY R10152N-5.5 |
| BLADE            | R10152N-5.5        | PCP:BLADE UNIT, ALUMINUM  | 3               | Prop           |                         |
| SPINNER          | 836-17SPR          | SPINNER ASSEMBLY          | 1               | Prop           |                         |
| SPINNER          | 836-32SPR          | SPINNER ASSEMBLY          | 1               | Prop           |                         |
| MTG BOLT/STUD    | B-1894             | PCP: NUT,SHAFT, 30 SPLINE | 1               | Prop           |                         |



# HARTZELL

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### CALLAIR

**Model:** see AERO COMM.; A/C PARTS & DEV

**Trade Name:**

**Aircraft T.C./STC:**

**Propeller Model:**

**Propeller T.C.:**

**Blade Model(s):**

**Prop Diameter:**

#### Prop Setup:

**Ref. Radius:**

**Reverse Angle:**

**Low Pitch Angle:**

**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

#### Hartzell Approved Items:

**IDS No.:** 327

**Rev.:** -

**DM Date:** 10/01/1992

**Modifier:**

**Engine Model:**

**Power:** HP @ RPM

**Placard/Restr:**

**Notes:**

**Startlock Angle:**

**Feather/High Angle:**

**Cwt Angle:**

**Non-HPI Governor:**

### CAMAIR

**Model:** 480

**Trade Name:**

**Aircraft T.C./STC:** 2A2

**Propeller Model:** HC-82XF-2B, HC-A2XF-2B, HC-82XF-2, HC-A2XF-2

**Propeller T.C.:** P24EA

**Blade Model(s):** 8433-2

**Prop Diameter:** 82.2" TO 80.5"

#### Prop Setup:

**Ref. Radius:** 30

**Reverse Angle:** NA

**Low Pitch Angle:** 12.0+-0.2

**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

#### Hartzell Approved Items:

**IDS No.:** 2122

**Rev.:** -

**DM Date:** 11/20/2003

**Modifier:**

**Engine Model:** O-470-B

**Power:** 240 HP @ 2600 RPM

**Placard/Restr:**

**Notes:**

**Startlock Angle:** NA

**Feather/High Angle:** 78.0+-0.5

**Cwt Angle:** Positive

**Non-HPI Governor:** HAMILTON, WOODWARD

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>            | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|-------------------------------|-----------------|----------------|-----------------|
| BLADE            | 8433-2             | BLADE                         | 2               | Prop           |                 |
| SPINNER          | 835-13             | SPINNER ASSEMBLY              | 1               | Prop           |                 |
| GOVERNOR         | B4-3               | IDS Item                      | 1               | Prop           |                 |
| MTG BOLT/STUD    | A-1328-1           | BOLT,MOUNTING,1/2-20,12 POINT | 6               | Prop           |                 |

# HARTZELL

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CAMAIR

Model: 480  
 Trade Name:  
 Aircraft T.C./STC: 2A2  
 Propeller Model: HC-82VF-2B, HC-A2VF-2B, HC-82VF-2, HC-A2VF-2  
 Propeller T.C.: P24EA  
 Blade Model(s): V8433-2  
 V8433N-2  
 Prop Diameter: 82.2" TO 80.5"

**Prop Setup:**

Ref. Radius: 30  
 Reverse Angle: NA  
 Low Pitch Angle: 12.0+-0.2  
 Stud Protrusion

**Non-HPI Items:**

Non-HPI Spinner:

IDS No.: 2123 Rev.: - DM Date: 11/20/2003

Modifier:  
 Engine Model: O-470-B  
 Power: 240 HP @ 2600 RPM  
 Placard/Restr:

Notes:

Startlock Angle: NA  
 Feather/High Angle: 78.0+-0.5  
 Cwt Angle: Positive

Non-HPI Governor: HAMILTON, WOODWARD

**Hartzell Approved Items:**

| Item Type     | Item Number | Description                   | Quantity | Qty Per | Comments |
|---------------|-------------|-------------------------------|----------|---------|----------|
| BLADE         | V8433-2     | BLADE                         | 2        | Prop    |          |
| BLADE         | V8433N-2    | BLADE                         | 2        | Prop    |          |
| SPINNER       | 835-13      | SPINNER ASSEMBLY              | 1        | Prop    |          |
| GOVERNOR      | B4-3        | IDS Item                      | 1        | Prop    |          |
| MTG BOLT/STUD | A-1328-1    | BOLT,MOUNTING,1/2-20,12 POINT | 6        | Prop    |          |

CAMAIR

Model: 480  
 Trade Name:  
 Aircraft T.C./STC: 2A2  
 Propeller Model: HC-A2MVF-2  
 Propeller T.C.: P24EA  
 Blade Model(s): MV8433N-2  
 Prop Diameter: 82.2" TO 80.5"

**Prop Setup:**

Ref. Radius: 30  
 Reverse Angle: NA  
 Low Pitch Angle: 12.0+-0.2  
 Stud Protrusion

**Non-HPI Items:**

Non-HPI Spinner:

IDS No.: 328 Rev.: 2 IC Date: 07/06/2015

Modifier:  
 Engine Model: O-470-B  
 Power: 240 HP @ 2600 RPM  
 Placard/Restr:

Notes:

Startlock Angle: NA  
 Feather/High Angle: 78.0+-0.5  
 Cwt Angle: Positive

Non-HPI Governor: HAMILTON, WOODWARD

**Hartzell Approved Items:**

| Item Type     | Item Number   | Description                   | Quantity | Qty Per | Comments                 |
|---------------|---------------|-------------------------------|----------|---------|--------------------------|
| PROPELLER     | A2F10159      | HC-A2MVF-2/MV8433N-2          | 2        | A/C     |                          |
| BLADE         | MV8433N-2     | PCP:BLADE UNIT, ALUMINUM      | 2        | Prop    |                          |
| SPINNER       | 835-13        | SPINNER ASSEMBLY              | 1        | Prop    |                          |
| GOVERNOR      | B4-3          | IDS Item                      | 2        | A/C     |                          |
| MTG BOLT/STUD | A-1328-1      | BOLT,MOUNTING,1/2-20,12 POINT | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-A2MVF-2-OH | O/H KIT                       | 1        | Prop    | For aftermarket use only |

# HARTZELL

## APPLICATION GUIDE 159

CAMAIR

**Model:** 480  
**Trade Name:**  
**Aircraft T.C./STC:** 2A2  
**Propeller Model:** HC-82XF-2, HC-A2XF-2, HC-82XF-2B, HC-A2XF-2B  
**Propeller T.C.:** P24EA  
**Blade Model(s):** 8433-4  
**Prop Diameter:** 80.2" TO 78"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.5 +-0.2  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 2124      **Rev.:** -      **DM Date:** 11/20/2003

**Modifier:**  
**Engine Model:** O-470-D  
**Power:** 240 HP @ 2600 RPM  
**Placard/Restr:**

**Notes:**

**Startlock Angle:** 35.0 +-1.5  
**Feather/High Angle:** 78.0 +-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>            | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|-------------------------------|-----------------|----------------|-----------------|
| BLADE            | 8433-4             | BLADE                         | 2               | Prop           |                 |
| SPINNER          | 835-13             | SPINNER ASSEMBLY              | 1               | Prop           |                 |
| GOVERNOR         | B4-3               | IDS Item                      | 1               | Prop           |                 |
| MTG BOLT/STUD    | A-1328-1           | BOLT,MOUNTING,1/2-20,12 POINT | 6               | Prop           |                 |

CAMAIR

**Model:** 480  
**Trade Name:**  
**Aircraft T.C./STC:** 2A2  
**Propeller Model:** HC-A2MVF-2  
**Propeller T.C.:** P24EA  
**Blade Model(s):** MV8433N-4  
**Prop Diameter:** 80.2" TO 78"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.5 +-0.2  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 329      **Rev.:** 1      **D Date:** 01/07/2011

**Modifier:**  
**Engine Model:** O-470-D  
**Power:** 240 HP @ 2600 RPM  
**Placard/Restr:**

**Notes:**

**Startlock Angle:** 35.0 +-1.5  
**Feather/High Angle:** 78.0 +-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>            | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|-------------------------------|-----------------|----------------|-----------------|
| BLADE            | MV8433N-4          | PCP:BLADE UNIT, ALUMINUM      | 2               | Prop           |                 |
| SPINNER          | 835-13             | SPINNER ASSEMBLY              | 1               | Prop           |                 |
| GOVERNOR         | B4-3               | IDS Item                      | 2               | A/C            |                 |
| MTG BOLT/STUD    | A-1328-1           | BOLT,MOUNTING,1/2-20,12 POINT | 6               | Prop           |                 |

# HARTZELL

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CAMAIR

IDS No.: 2125      Rev.: -      DM Date: 11/20/2003

Model: 480

Modifier:

Trade Name:

Engine Model: O-470-D

Aircraft T.C./STC: 2A2

Power: 240 HP @ 2600 RPM

Propeller Model: HC-82VF-2, HC-A2VF-2, HC-82VF-2B, HC-A2VF-2B

Placard/Restr:

Propeller T.C.: P24EA

Notes:

Blade Model(s): V8433-4

V8433N-4

Prop Diameter: 80.2" TO 78"

### Prop Setup:

Ref. Radius: 30

Startlock Angle: 35.0 +-1.5

Reverse Angle: NA

Feather/High Angle: 78.0 +-0.5

Low Pitch Angle: 13.5 +-0.2

Cwt Angle: Positive

Stud Protrusion

### Non-HPI Items:

Non-HPI Spinner:

Non-HPI Governor:

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>            | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|-------------------------------|-----------------|----------------|-----------------|
| BLADE            | V8433-4            | BLADE                         | 2               | Prop           |                 |
| BLADE            | V8433N-4           | BLADE                         | 2               | Prop           |                 |
| SPINNER          | 835-13             | SPINNER ASSEMBLY              | 1               | Prop           |                 |
| GOVERNOR         | B4-3               | IDS Item                      | 1               | Prop           |                 |
| MTG BOLT/STUD    | A-1328-1           | BOLT,MOUNTING,1/2-20,12 POINT | 6               | Prop           |                 |

# HARTZELL

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CASA

IDS No.: 330 Rev.: 5 IC Date: 01/27/2020

Model: C-212-CB

Trade Name:

Aircraft T.C./STC: A43EU

Propeller Model: HC-B4TN-5CL, 5FL

Propeller T.C.: P40EA

Blade Model(s): LT10282+4  
LT10282B+4  
LT10282N+4  
LT10282NB+4

Prop Diameter: 107.5"

### Prop Setup:

Ref. Radius: 30

Reverse Angle: -6.5 +/-0.5

Low Pitch Angle: 13.5 +/-0.2

Stud Protrusion

### Non-HPI Items:

Non-HPI Spinner:

Modifier:

Engine Model: TPE331-5-251C

Power: 750 HP @ 1591 RPM

Placard/Restr:

Notes: Reference Manual 139 for Airworthiness Limitations.

Startlock Angle: 2.25 +/-0.25

Feather/High Angle: 89.0 +/-1.0

Cwt Angle: Positive

Non-HPI Governor:

### Hartzell Approved Items:

| Item Type                      | Item Number    | Description                       | Quantity | Qty Per | Comments                  |
|--------------------------------|----------------|-----------------------------------|----------|---------|---------------------------|
| PROPELLER                      | B4N10710       | HC-B4TN-5FL/LT10282NB+4           | 2        | A/C     |                           |
| BLADE                          | LT10282+4      | BLADE                             | 4        | Prop    | SUPERSEDED BY LT10282N+4  |
| BLADE                          | LT10282B+4     | BLADE, 4E1601-5 BOOT              | 4        | Prop    | SUPERSEDED BY LT10282NB+4 |
| BLADE                          | LT10282N+4     | PCP:BLADE UNIT, ALUMINUM          | 4        | Prop    |                           |
| BLADE                          | LT10282NB+4    | PCP:BLADE UNIT, ALUM              | 4        | Prop    |                           |
| SPINNER                        | D-3434-7P*1    | SPINNER ASSEMBLY (PAINT BULK)     | 1        | Prop    |                           |
| COUNTERWEIGHT SLUG A-3039      |                | SLUG, COUNTERWEIGHT               | 1        | Blade   |                           |
| COUNTERWEIGHT SLUG A-890-6     |                | PCP:SLUG, COUNTERWEIGHT           | 1        | Blade   |                           |
| COUNTERWEIGHT SLUG B-3384-21H  |                | BOLT, 1/4-28, HEX HEAD            | 2        | Blade   |                           |
| COUNTERWEIGHT SLUG B-3851-0432 |                | WASHER                            | 2        | Blade   | Optional                  |
| COUNTERWEIGHT SLUG B-3851-0463 |                | WASHER                            | 2        | Blade   |                           |
| DE-ICER                        | 4H1601-5       | DE-ICE BOOT                       | 1        | Blade   | Supersedes 7931-4E1601-5  |
| DE-ICE KIT PR                  | 100020         | DE-ICE KIT (ONE PROP)             | 1        | Prop    | Supersedes 7931-65-105-1  |
| DE-ICE KIT PR                  | 7931-65-105-1  | DE-ICE KIT (ONE PROP)             | 1        | Prop    | Superseded by 100020      |
| MTG BOLT/STUD                  | B-3339         | BOLT, MOUNTING, 9/16-18, 12 POINT | 8        | Prop    |                           |
| OVERHAUL KIT                   | HC-B4TN-5FL-OH | O/H KIT                           | 1        | Prop    | For aftermarket use only  |

# HARTZELL

## APPLICATION GUIDE 159

CASA

IDS No.: 331 Rev.: 3 IC Date: 01/27/2020

Model: C-212-CC, -CF

Modifier:

Trade Name:

Engine Model: TPE331-10(R)-501C,-511C

Aircraft T.C./STC: A43EU

Power: 900 HP @ 1591 RPM

Propeller Model: HC-B4MN-5AL

Placard/Restr:

Propeller T.C.: P56GL

Notes:

Blade Model(s): LM10585ANK+4

Prop Diameter: 110"

### Prop Setup:

Ref. Radius: 42

Startlock Angle: -1.5 +-0.2

Reverse Angle: -10.0 +-0.5

Feather/High Angle: 83.0 +-1.0

Low Pitch Angle: 7.0 +-0.3

Cwt Angle: 3.0 +-1.0

Stud Protrusion

### Non-HPI Items:

Non-HPI Spinner:

Non-HPI Governor:

### Hartzell Approved Items:

| Item Type                      | Item Number   | Description                       | Quantity | Qty Per | Comments                  |
|--------------------------------|---------------|-----------------------------------|----------|---------|---------------------------|
| PROPELLER                      | B4N00023      | HC-B4MN-5AL/LM10585ANK+4/DEICE    | 2        | A/C     |                           |
| PROPELLER                      | B4N00023KD    | HC-B4MN-5AL/LM10585ANK+4/DEICE    | 2        | A/C     |                           |
| PROPELLER                      | B4N00023S     | B4MN-5AL/LM10585ANK+4/D4544-L     | 2        | A/C     |                           |
| BLADE                          | LM10585ANK+4  | PCP:BLADE ASSY, COMPOSITE         | 4        | Prop    |                           |
| SPINNER                        | D-4544-L      | SPINNER ASSEMBLY                  | 1        | Prop    |                           |
| COUNTERWEIGHT SLUG A-890-8     |               | PCP:SLUG, COUNTERWEIGHT           | 1        | Blade   |                           |
| COUNTERWEIGHT SLUG B-3384-9H   |               | BOLT, 1/4-28, HEX HEAD            | 2        | Blade   |                           |
| COUNTERWEIGHT SLUG B-3386-14H  |               | BOLT,3/8-24,HEX HEAD              | 2        | Blade   |                           |
| COUNTERWEIGHT SLUG B-3663      |               | PCP:SLUG, COUNTERWEIGHT           | 1        | Blade   |                           |
| COUNTERWEIGHT SLUG B-3834-0632 |               | WASHER                            | 2        | Blade   |                           |
| DE-ICER                        | 4H2336-12     | DE-ICE BOOT                       | 1        | Blade   | Supersedes 7931-4E2336-12 |
| DE-ICE KIT PR                  | 7931-67-110-1 | DE-ICE KIT (ONE PROP)             | 1        | Prop    |                           |
| MTG BOLT/STUD                  | B-3339        | BOLT, MOUNTING, 9/16-18, 12 POINT | 8        | Prop    |                           |

# HARTZELL

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CASA

IDS No.: 3604 Rev.: 4 IC Date: 06/25/2020

**Model:** C-212-CC, -CF  
**Trade Name:**  
**Aircraft T.C./STC:** ST09907AC  
**Propeller Model:** HC-E5N-5KL  
**Propeller T.C.:** P20NE

**Modifier:** Texas Turbines (BS Designs Inc.)  
**Engine Model:** TPE331-10(R)-501C,-511C  
**Power:** 900 HP @ 1591 RPM  
**Placard/Restr:** Stabilized ground operation is prohibited below 1034 (65%) RPM.

**Blade Model(s):** JNC10905B\*1  
**Prop Diameter:** 112"

**Notes:**

**Prop Setup:**

**Ref. Radius:** 42  
**Reverse Angle:** -12.0 +-0.5  
**Low Pitch Angle:** N/A  
**Stud Protrusion**

**Startlock Angle:** -3.8 +-0.1  
**Feather/High Angle:** 80.2 +-1.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type                   | Item Number | Description                    | Quantity | Qty Per | Comments   |
|-----------------------------|-------------|--------------------------------|----------|---------|--|
| #Error                      | 106996      | TIMER, DE-ICE                  |          |         |  |
| PROPELLER                   | E5N00714S   | HC-E5N-5KL/JNC10905B*1/SPIN    | 2        | A/C     |  |
| PROPELLER                   | E5N00714SKD | HC-E5N-5KL/JNC10905B*1/SPIN    | 2        | A/C     |  |
| PROPELLER                   | E5N00716S   | HC-E5N-5KL/JNC10905B*1/108344P | 2        | A/C     |  |
| PROPELLER                   | E5N00716SKD | HC-E5N-5KL/JNC10905B*1/108344P | 2        | A/C     |  |
| BLADE                       | JNC10905B*1 | PCP:BLADE ASSEMBLY, COMPOSITE  | 5        | Prop    |  |
| SPINNER                     | 106528P     | SPINNER ASSEMBLY               | 1        | Prop    | No sync holes in bulkhead                          |
| SPINNER                     | 108344      | SPINNER ASSEMBLY               | 1        | Prop    | Sync holes in bulkhead                             |
| SPINNER                     | 108344P     | SPINNER ASSEMBLY               | 1        | Prop    | Sync holes in bulkhead                             |
| SPIN MTG KIT                | B-3384-4H   | BOLT, 1/4-28, HEX HEAD         | 10       | Prop    | non de-ice   |
| SPIN MTG KIT                | B-3851-0432 | WASHER                         | 10       | Prop    | non de-ice   |
| SP MT KIT DE-ICE            | A-2070-6    | SCREW, 1/4-28, BUTTON HEAD     | 10       | Prop    | de-ice   |
| COUNTERWEIGHT               | 106611      | PCP:COUNTERWEIGHT              | 1        | Blade   |  |
| COUNTERWEIGHT SLUG          | 106522-1    | PCP: SLUG, COUNTERWEIGHT       | 2        | Blade   |  |
| COUNTERWEIGHT SLUG A-1712   |             | BOLT,3/8-24,HEX HEAD           | 2        | Blade   |  |
| COUNTERWEIGHT SLUG A-1713   |             | PCP: SLUG, COUNTERWEIGHT       | 4        | Blade   |  |
| COUNTERWEIGHT SLUG A-2043-1 |             | NUT,3/8-24,HEX,SELF-LOCKING    | 2        | Blade   |  |
| DE-ICER                     | 107160      | DE-ICE BOOT                    | 1        | Blade   |  |
| DE-ICE KIT PR               | 107038      | DE-ICE KIT (ONE PROP)          | 1        | Prop    | Use with 106528(P) spinner assembly (no sync) only |
| DE-ICE KIT PR               | 108342      | DE-ICE KIT (ONE PROP)          | 1        | Prop    | Use with 108344(P) spinner assembly (sync) only    |
| DE-ICE KIT A/F              | 106612      | AIRFRAME DE-ICE KIT            | 2        | A/C     |  |
| MTG BOLT/STUD               | C-6006      | NUT,MOUNTING,9/16-18,12 POINT  | 8        | Prop    |  |

# HARTZELL

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CASA

IDS No.: 332      Rev.: -      DM Date: 02/04/1993

Model: C-212-CC, -CF

Modifier:

Trade Name:

Engine Model: TPE331-10(R)-501C,-511C

Aircraft T.C./STC: A43EU

Power: 900 HP @ 1591 RPM

Propeller Model: HC-B4MN-5AL

Placard/Restr:

Propeller T.C.:

Notes:

Blade Model(s): LM10585B+4

Prop Diameter: 110"

**Prop Setup:**

Ref. Radius: 42

Startlock Angle: -1.5 +-0.2

Reverse Angle: -10.0 +-0.5

Feather/High Angle: 83.0 +-1.0

Low Pitch Angle: 7.0 +-0.3

Cwt Angle: 3.0 +-1.0

Stud Protrusion

**Non-HPI Items:**

Non-HPI Spinner:

Non-HPI Governor:

**Hartzell Approved Items:**

| Item Type                     | Item Number    | Description                       | Quantity | Qty Per | Comments        |
|-------------------------------|----------------|-----------------------------------|----------|---------|-----------------|
| BLADE                         | LM10585B+4     | COMPOST BLADE, 4E2336-10 BOOT     | 4        | Prop    |                 |
| SPINNER                       | D-4544-L       | SPINNER ASSEMBLY                  | 1        | Prop    |                 |
| COUNTERWEIGHT SLUG A-890-8    |                | PCP:SLUG, COUNTERWEIGHT           | 1        | Blade   |                 |
| COUNTERWEIGHT SLUG B-3384-9H  |                | BOLT, 1/4-28, HEX HEAD            | 2        | Blade   |                 |
| COUNTERWEIGHT SLUG B-3386-14H |                | BOLT,3/8-24,HEX HEAD              | 2        | Blade   |                 |
| COUNTERWEIGHT SLUG B-3663     |                | PCP:SLUG, COUNTERWEIGHT           | 1        | Blade   |                 |
| DE-ICER                       | 7931-4E2336-10 | HOT PROP DE-ICER (CASA)           | 1        | Blade   | Blade Component |
| MTG BOLT/STUD                 | B-3339         | BOLT, MOUNTING, 9/16-18, 12 POINT | 8        | Prop    |                 |



# HARTZELL

## APPLICATION GUIDE

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CASA

IDS No.: 333      Rev.: 2      IC      Date: 01/27/2020

**Model:** 212  
**Trade Name:** AVIOCAR  
**Aircraft T.C./STC:** Unknown  
**Propeller Model:** HC-B3TN-5E  
**Propeller T.C.:** P15EA  
**Blade Model(s):** T10282B\*4  
    T10282NB\*4  
**Prop Diameter:** 102.0"

**Modifier:**  
**Engine Model:** TPE331-201  
**Power:** 715 HP @ 2000 RPM  
**Placard/Restr:**  
**Notes:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** -6.0 +-0.3  
**Low Pitch Angle:**  
**Stud Protrusion**

**Startlock Angle:** 2.0 +-0.1  
**Feather/High Angle:** 89.0 +-1.0  
**Cwt Angle:** POSITIVE

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u>               | <u>Item Number</u> | <u>Description</u>                | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|--------------------------------|--------------------|-----------------------------------|-----------------|----------------|--------------------------|
| BLADE                          | T10282B*4          | IDS*ITEM, BLADE, 4E1188-3 BOOT    | 3               | Prop           |                          |
| BLADE                          | T10282NB*4         | IDS ITEM, BLADE, 4E1188-3 BOOT    | 3               | Prop           |                          |
| SPINNER                        | D-3434-1           | SPINNER ASSEMBLY                  | 1               | Prop           |                          |
| COUNTERWEIGHT SLUG A-3039      |                    | SLUG, COUNTERWEIGHT               | 1               | Blade          |                          |
| COUNTERWEIGHT SLUG A-890-8     |                    | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          |                          |
| COUNTERWEIGHT SLUG B-3384-18H  |                    | BOLT, 1/4-28, HEX HEAD            | 2               | Blade          |                          |
| COUNTERWEIGHT SLUG B-3851-0432 |                    | WASHER                            | 2               | Blade          | Optional                 |
| COUNTERWEIGHT SLUG B-3851-0463 |                    | WASHER                            | 2               | Blade          | Optional                 |
| DE-ICER                        | 4H1188-3           | DE-ICE BOOT                       | 1               | Blade          | Supersedes 7931-4E1188-3 |
| MTG BOLT/STUD                  | B-3339             | BOLT, MOUNTING, 9/16-18, 12 POINT | 8               | Prop           |                          |

# HARTZELL

## APPLICATION GUIDE

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CESSNA

IDS No.: 2926 Rev.: - DM Date: 12/11/2009

Model: ( )206  
 Trade Name: Stationair  
 Aircraft T.C./STC: SA02735CH  
 Propeller Model: HC-J3YF-1RF  
 Propeller T.C.: P36EA  
 Blade Model(s): F7693DF+2\*1  
 Prop Diameter: 80"-78"

Modifier: Vitatoe Aviation LLC  
 Engine Model: IO-550-F  
 Power: 300 HP @ 2700 RPM  
 Placard/Restr: None

Notes: This installation data sheet is limited to aircraft that have been converted on STC's SA10010SC (Texas Skyways), SA00332AT & SA1482GL (Wipaire)

The C-4582-1(P) is eligible on TC'ed airplanes and STC's SA10010SC (Texas Skyways 206), SA00332AT (Atlantic Aero 206), SA1482GL (Wipaire 206).

### Prop Setup:

Ref. Radius: 30  
 Reverse Angle:  
 Low Pitch Angle: 12.8 +-0.2  
 Stud Protrusion 1.450 +-0.030

Startlock Angle:  
 Feather/High Angle: 32.0 +-1.0  
 Cwt Angle:

### Non-HPI Items:

Non-HPI Spinner:

Non-HPI Governor:

### Hartzell Approved Items:

| Item Type     | Item Number | Description                    | Quantity | Qty Per | Comments  |
|---------------|-------------|--------------------------------|----------|---------|-----------|
| PROPELLER     | J3F00252    | HC-J3YF-1RF/F7693DF+2[*1]/SM44 | 1        | A/C     |           |
| PROPELLER     | J3F00252KD  | HC-J3YF-1RF/F7693DF+2[*1]/SM44 | 1        | A/C     |           |
| BLADE         | F7693DF+2*1 | PCP:BLADE UNIT, ALUM [6,16,11] | 3        | Prop    |           |
| SPINNER       | C-4582-1    | SPINNER ASSEMBLY               | 1        | A/C     | See Notes |
| SPINNER       | C-4582-1P   | SPINNER ASSEMBLY               | 1        | A/C     | See Notes |
| SPIN MTG KIT  | A-2476-44   | SPINNER - MTG KIT              | 1        | Prop    |           |
| MTG BOLT/STUD | A-2429-4    | STUD, MOUNTING, 1/2-20         | 6        | Prop    |           |

# HARTZELL

## APPLICATION GUIDE 159

CESSNA

IDS No.: 2969 Rev.: 1 BC Date: 07/25/2014

Model: ( )206  
 Trade Name: Stationair  
 Aircraft T.C./STC: SA02821CH  
 Propeller Model: HC-J3YF-1RF  
 Propeller T.C.: P36EA  
 Blade Model(s): F7693DF+2\*1  
 Prop Diameter: 80"-78"

Modifier: Hartzell Propeller  
 Engine Model: IO-550-F  
 Power: 300 HP @ 2700 RPM  
 Placard/Restr: None

Notes: This installation data sheet is limited to aircraft that have been converted on STC's SA10010SC (Texas Skyways), SA00332AT & SA1482GL (Wipaire)

The C-4582-1(P) is eligible on TC'ed airplanes and STC's SA10010SC (Texas Skyways 206), SA00332AT (Atlantic Aero 206), SA1482GL (Wipaire 206).

### Prop Setup:

Ref. Radius: 30  
 Reverse Angle:  
 Low Pitch Angle: 12.8 +-0.2  
 Stud Protrusion 1.450 +-0.030

Startlock Angle:  
 Feather/High Angle: 32.0 +-1.0  
 Cwt Angle:

### Non-HPI Items:

Non-HPI Spinner:

Non-HPI Governor:

### Hartzell Approved Items:

| Item Type     | Item Number | Description                    | Quantity | Qty Per | Comments  |
|---------------|-------------|--------------------------------|----------|---------|-----------|
| PROPELLER     | J3F00252    | HC-J3YF-1RF/F7693DF+2[*1]/SM44 | 1        | A/C     |           |
| PROPELLER     | J3F00252KD  | HC-J3YF-1RF/F7693DF+2[*1]/SM44 | 1        | A/C     |           |
| BLADE         | F7693DF+2*1 | PCP:BLADE UNIT, ALUM [6,16,11] | 3        | Prop    |           |
| SPINNER       | C-4582-1    | SPINNER ASSEMBLY               | 1        | A/C     | See Notes |
| SPINNER       | C-4582-1P   | SPINNER ASSEMBLY               | 1        | A/C     | See Notes |
| SPIN MTG KIT  | A-2476-44   | SPINNER - MTG KIT              | 1        | Prop    |           |
| MTG BOLT/STUD | A-2429-4    | STUD, MOUNTING, 1/2-20         | 6        | Prop    |           |

# HARTZELL

## APPLICATION GUIDE 159

CESSNA

**Model:** ( )207( )  
**Trade Name:** Stationair  
**Aircraft T.C./STC:** SA02735CH  
**Propeller Model:** HC-C3YF-1RF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** F7693DF+2\*1  
**Prop Diameter:** 80"-78"

**IDS No.:** 2928      **Rev.:** 2      **IC Date:** 07/16/2015

**Modifier:** Vitatoe Aviation LLC  
**Engine Model:** IO-550-F  
**Power:** 300 HP @ 2700 RPM  
**Placard/Restr:** None

**Notes:** This installation is limited to TC'd aircraft and aircraft previously converted on Texas Skyways STCSA10011SC

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** 12.8 +-0.2  
**Stud Protrusion** 1.450 +-0.030

**Startlock Angle:**  
**Feather/High Angle:** 32.0 +-1.0  
**Cwt Angle:**

### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>             | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>           |
|------------------|--------------------|--------------------------------|-----------------|----------------|---------------------------|
| PROPELLER        | C3F06101           | HC-C3YF-1RF/F7693DF+2*[1]/SM6  | 1               | A/C            |                           |
| PROPELLER        | C3F06101KD         | HC-C3YF-1RF/F7693DF+2*[1]/SM6  | 1               | A/C            |                           |
| BLADE            | F7693DF+2*1        | PCP:BLADE UNIT, ALUM [6,16,11] | 3               | Prop           |                           |
| SPINNER          | A-2295-1           | SPINNER ASSEMBLY               | 1               | Prop           | Optional                  |
| SPINNER          | A-2295-1P          | SPINNER ASSEMBLY               | 1               | Prop           | Optional                  |
| SPINNER          | D-5732             | IDS Item                       | 1               | Prop           |                           |
| SPINNER          | D-5732-P           | SPINNER ASSEMBLY               | 1               | Prop           |                           |
| SPIN MTG KIT     | A-2476-30          | SPINNER - MTG KIT              | 1               | Prop           | Optional With A-2295-1(P) |
| SPIN MTG KIT     | A-2476-6           | SPINNER - MTG KIT              | 1               | Prop           |                           |
| MTG BOLT/STUD    | A-2429-4           | STUD, MOUNTING, 1/2-20         | 6               | Prop           |                           |
| OVERHAUL KIT     | HC-C3YF-1RF-OH     | O/H KIT                        | 1               | Prop           | For aftermarket use only  |

# HARTZELL

## APPLICATION GUIDE

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CESSNA

IDS No.: 2996 Rev.: 3 IC Date: 07/16/2015

Model: ( )207( )  
 Trade Name: Stationair  
 Aircraft T.C./STC: SA02821CH  
 Propeller Model: HC-C3YF-1RF  
 Propeller T.C.: P25EA  
 Blade Model(s): F7693DF+2\*1  
 Prop Diameter: 80"-78"

Modifier: Hartzell Propeller  
 Engine Model: IO-550-F  
 Power: 300 HP @ 2700 RPM  
 Placard/Restr: None

Notes: This installation is limited to TC'd aircraft and aircraft previously converted on Texas Skyways STCSA10011SC

### Prop Setup:

Ref. Radius: 30  
 Reverse Angle:  
 Low Pitch Angle: 12.8 +-0.2  
 Stud Protrusion 1.450 +-0.030

Startlock Angle:  
 Feather/High Angle: 32.0 +-1.0  
 Cwt Angle:

### Non-HPI Items:

Non-HPI Spinner:

Non-HPI Governor:

### Hartzell Approved Items:

| Item Type     | Item Number    | Description                    | Quantity | Qty Per | Comments                  |
|---------------|----------------|--------------------------------|----------|---------|---------------------------|
| PROPELLER     | C3F06101       | HC-C3YF-1RF/F7693DF+2*[1]/SM6  | 1        | A/C     |                           |
| PROPELLER     | C3F06101KD     | HC-C3YF-1RF/F7693DF+2*[1]/SM6  | 1        | A/C     |                           |
| BLADE         | F7693DF+2*1    | PCP:BLADE UNIT, ALUM [6,16,11] | 3        | Prop    |                           |
| SPINNER       | A-2295-1       | SPINNER ASSEMBLY               | 1        | Prop    | Optional                  |
| SPINNER       | A-2295-1P      | SPINNER ASSEMBLY               | 1        | Prop    | Optional                  |
| SPINNER       | D-5732         | IDS Item                       | 1        | Prop    |                           |
| SPINNER       | D-5732-P       | SPINNER ASSEMBLY               | 1        | Prop    |                           |
| SPIN MTG KIT  | A-2476-30      | SPINNER - MTG KIT              | 1        | Prop    | Optional With A-2295-1(P) |
| SPIN MTG KIT  | A-2476-6       | SPINNER - MTG KIT              | 1        | Prop    |                           |
| MTG BOLT/STUD | A-2429-4       | STUD, MOUNTING, 1/2-20         | 6        | Prop    |                           |
| OVERHAUL KIT  | HC-C3YF-1RF-OH | O/H KIT                        | 1        | Prop    | For aftermarket use only  |

# HARTZELL

## APPLICATION GUIDE

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CESSNA

IDS No.: 2929 Rev.: 1 IC Date: 02/19/2020

Model: ( )210( ) See Notes  
 Trade Name: CENTURION  
 Aircraft T.C./STC: SA02735CH  
 Propeller Model: HC-J3YF-1RF  
 Propeller T.C.: P36EA  
 Blade Model(s): F7693DF+2\*1  
 F7693DFB+2  
 Prop Diameter: 80"-78"

Modifier: Vitatoo Aviation LLC  
 Engine Model: IO-550-L  
 Power: 300 HP @ 2700 RPM  
 Placard/Restr: None  
 Notes: C-4582-1(P) Eligible on TC'd Aircraft John Jewel A/C SA00274AT and SA3141AT, C-4582-1(P) Eligible on Alantic Aero SA3104SO. D5732-P Eligible on Texas Skyways 210: SA09952SC Non deice only 103308 Airframe Deice kit eligible on S/N 21061142-21064897 & P21000001-P21000834 A-2476-25 Eligible on STC SA09952SC (Texas Skyways 210).

### Prop Setup:

Ref. Radius: 30  
 Reverse Angle:  
 Low Pitch Angle: 12.8 +-0.2  
 Stud Protrusion 1.450 +-0.030

Startlock Angle:  
 Feather/High Angle: 32.0 +-1.0  
 Cwt Angle:

### Non-HPI Items:

Non-HPI Spinner:

Non-HPI Governor:

### Hartzell Approved Items:

| Item Type      | Item Number | Description                    | Quantity | Qty Per | Comments                       |
|----------------|-------------|--------------------------------|----------|---------|--------------------------------|
| PROPELLER      | J3F00252    | HC-J3YF-1RF/F7693DF+2[*1]/SM44 | 1        | A/C     |                                |
| PROPELLER      | J3F00252KD  | HC-J3YF-1RF/F7693DF+2[*1]/SM44 | 1        | A/C     |                                |
| PROPELLER      | J3F00452    | HC-J3YF-1RF/F7693DFB+2/SM25/DE | 1        | A/C     | Eligible on STC SA09952SC (Tex |
| PROPELLER      | J3F00452KD  | HC-J3YF-1RF/F7693DFB+2/SM25/DE | 1        | A/C     | Eligible on STC SA09952SC (Tex |
| BLADE          | F7693DF+2*1 | PCP:BLADE UNIT, ALUM [6,16,11] | 3        | Prop    |                                |
| BLADE          | F7693DFB+2  | PCP:BLADE UNIT, ALUM [6,16,11] | 3        | Prop    |                                |
| SPINNER        | C-4582-1    | SPINNER ASSEMBLY               | 1        | A/C     | See Notes                      |
| SPINNER        | C-4582-1P   | SPINNER ASSEMBLY               | 1        | A/C     | See Notes                      |
| SPINNER        | D-5732      | IDS Item                       | 1        | Prop    |                                |
| SPINNER        | D-5732-P    | SPINNER ASSEMBLY               | 1        | Prop    |                                |
| SPIN MTG KIT   | A-2476-25   | SPINNER - MTG KIT              | 1        | Prop    | Eligible on STC SA09952SC (Tex |
| SPIN MTG KIT   | A-2476-44   | SPINNER - MTG KIT              | 1        | Prop    |                                |
| DE-ICER        | 102811      | DE-ICE BOOT                    | 1        | Blade   |                                |
| DE-ICE KIT PR  | 103262      | DE-ICE KIT (ONE PROP)          | 1        | Prop    |                                |
| DE-ICE KIT A/F | 103307      | AIRFRAME DE-ICE KIT            | 1        | A/C     | (T)210L S/N 21059503-21061141  |
| DE-ICE KIT A/F | 103308      | AIRFRAME DE-ICE KIT            | 1        | A/C     | See Notes                      |
| MTG BOLT/STUD  | A-2429-4    | STUD, MOUNTING, 1/2-20         | 6        | Prop    |                                |

# HARTZELL

## APPLICATION GUIDE

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CESSNA

IDS No.: 2997 Rev.: 2 IC Date: 02/19/2020

**Model:** ( )210( ) See Notes  
**Trade Name:** CENTURION  
**Aircraft T.C./STC:** SA02821CH  
**Propeller Model:** HC-J3YF-1RF  
**Propeller T.C.:** P36EA  
**Blade Model(s):** F7693DF+2\*1  
 F7693DFB+2  
**Prop Diameter:** 80"-78"

**Modifier:** Hartzell Propeller  
**Engine Model:** IO-550-L  
**Power:** 300 HP @ 2700 RPM  
**Placard/Restr:** None  
**Notes:** C-4582-1(P) Eligible on TC'd Aircraft John Jewel A/C SA00274AT and SA3141AT, C-4582-1(P) Eligible on Alantic Aero SA3104SO. D5732-P Eligible on Texas Skyways 210: SA09952SC Non deice only 103308 Airframe Deice kit eligible on S/N 21061142-21064897 & P21000001-P21000834 A-2476-25 Eligible on STC SA09952SC (Texas Skyways 210).

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** 12.8 +-0.2  
**Stud Protrusion** 1.450 +-0.030

**Startlock Angle:**  
**Feather/High Angle:** 32.0 +-1.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type      | Item Number | Description                    | Quantity | Qty Per | Comments                       |
|----------------|-------------|--------------------------------|----------|---------|--------------------------------|
| PROPELLER      | J3F00252    | HC-J3YF-1RF/F7693DF+2[*1]/SM44 | 1        | A/C     |                                |
| PROPELLER      | J3F00252KD  | HC-J3YF-1RF/F7693DF+2[*1]/SM44 | 1        | A/C     |                                |
| PROPELLER      | J3F00452    | HC-J3YF-1RF/F7693DFB+2/SM25/DE | 1        | A/C     | Eligible on STC SA09952SC (Tex |
| PROPELLER      | J3F00452KD  | HC-J3YF-1RF/F7693DFB+2/SM25/DE | 1        | A/C     | Eligible on STC SA09952SC (Tex |
| BLADE          | F7693DF+2*1 | PCP:BLADE UNIT, ALUM [6,16,11] | 3        | Prop    |                                |
| BLADE          | F7693DFB+2  | PCP:BLADE UNIT, ALUM [6,16,11] | 3        | Prop    |                                |
| SPINNER        | C-4582-1    | SPINNER ASSEMBLY               | 1        | A/C     | See Notes                      |
| SPINNER        | C-4582-1P   | SPINNER ASSEMBLY               | 1        | A/C     | See Notes                      |
| SPINNER        | D-5732      | IDS Item                       | 1        | Prop    |                                |
| SPINNER        | D-5732-P    | SPINNER ASSEMBLY               | 1        | Prop    |                                |
| SPIN MTG KIT   | A-2476-25   | SPINNER - MTG KIT              | 1        | Prop    | Eligible on STC SA09952SC (Tex |
| SPIN MTG KIT   | A-2476-44   | SPINNER - MTG KIT              | 1        | Prop    |                                |
| DE-ICER        | 102811      | DE-ICE BOOT                    | 1        | Blade   |                                |
| DE-ICE KIT PR  | 103262      | DE-ICE KIT (ONE PROP)          | 1        | Prop    |                                |
| DE-ICE KIT A/F | 103307      | AIRFRAME DE-ICE KIT            | 1        | A/C     | (T)210L S/N 21059503-21061141  |
| DE-ICE KIT A/F | 103308      | AIRFRAME DE-ICE KIT            | 1        | A/C     | See Notes                      |
| MTG BOLT/STUD  | A-2429-4    | STUD, MOUNTING, 1/2-20         | 6        | Prop    |                                |

# HARTZELL

## APPLICATION GUIDE

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Cessna

IDS No.: 3797 Rev.: - IC Date: 02/01/2021

Model: ()206()  
 Trade Name: Stationair  
 Aircraft T.C./STC: SA04034CH  
 Propeller Model: HC-B3TN-3M  
 Propeller T.C.: P15EA

Modifier: Turbine Conversions  
 Engine Model: PT6A-20  
 Power: 550 HP @ 2200 RPM  
 Placard/Restr: For Propeller Vibration Approval see Turbine Conversions Ltd. STC SA04034CH.

Blade Model(s): T10173N-8  
 Prop Diameter: 93.5" TO 90 3/8"

Notes: Fit one A-3044 Carbon Block Assembly per customer request.

### Prop Setup:

Ref. Radius: 30  
 Reverse Angle: -14.0 +-0.5  
 Low Pitch Angle: 16.0 +-0.2  
 Stud Protrusion

Startlock Angle: NA  
 Feather/High Angle: 87.0 +-0.5  
 Cwt Angle: Positive

### Non-HPI Items:

Non-HPI Spinner:

Non-HPI Governor:

### Hartzell Approved Items:

| Item Type                      | Item Number   | Description                       | Quantity | Qty Per | Comments                 |
|--------------------------------|---------------|-----------------------------------|----------|---------|--------------------------|
| PROPELLER                      | B3N12165S     | HC-B3TN-3M/T10173N-8/D-4897-P     | 1        | A/C     |                          |
| PROPELLER                      | B3N12165SKD   | HC-B3TN-3M/T10173N-8/D-4897-P     | 1        | A/C     |                          |
| BLADE                          | T10173N-8     | PCP:BLADE UNIT, ALUM [1,1,1]      | 3        | Prop    |                          |
| SPINNER                        | D-4897-P      | SPINNER ASSEMBLY                  | 1        | Prop    |                          |
| SPIN MTG KIT                   | B-3384-4H     | BOLT, 1/4-28, HEX HEAD            | 12       | Prop    |                          |
| SPIN MTG KIT                   | B-3808-4      | NUT,HEX,SELF-LOCKING              | 12       | Prop    |                          |
| SPIN MTG KIT                   | B-3851-0432   | WASHER                            | 24       | Prop    |                          |
| COUNTERWEIGHT SLUG A-3039      |               | SLUG, COUNTERWEIGHT               | 1        | Blade   |                          |
| COUNTERWEIGHT SLUG A-890-8     |               | PCP:SLUG, COUNTERWEIGHT           | 1        | Blade   |                          |
| COUNTERWEIGHT SLUG B-3384-18H  |               | BOLT, 1/4-28, HEX HEAD            | 2        | Blade   |                          |
| COUNTERWEIGHT SLUG B-3851-0432 |               | WASHER                            | 2        | Blade   | Optional                 |
| COUNTERWEIGHT SLUG B-3851-0463 |               | WASHER                            | 2        | Blade   | Optional                 |
| MTG BOLT/STUD                  | B-3339        | BOLT, MOUNTING, 9/16-18, 12 POINT | 8        | Prop    |                          |
| MISC ACCES                     | A-3044        | BLOCK, BETA FEEDBACK- ASSEMBLY    | 1        | Prop    |                          |
| OVERHAUL KIT                   | HC-B3TN-3M-OH | O/H KIT                           | 1        | Prop    | For aftermarket use only |



# HARTZELL

## APPLICATION GUIDE

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CESSNA

**Model:** (T)207(A)  
**Trade Name:** Stationair  
**Aircraft T.C./STC:** SA02735CH  
**Propeller Model:** HC-J3YF-1RF  
**Propeller T.C.:** P36EA  
**Blade Model(s):** F8068-2\*2  
**Prop Diameter:** 80"-78"

**IDS No.:** 3239      **Rev.:** -      **DM Date:** 06/10/2013

**Modifier:** Vitatoe Aviation LLC  
**Engine Model:** IO-550-F, N  
**Power:** 310 HP @ 2700 RPM  
**Placard/Restr:**

**Notes:** For use on Cessna (T)207(A) with Davis Aviation STC SA00173AT, including Davis spinner extension modification.

### Prop Setup:

**Ref. Radius:** 30"  
**Reverse Angle:**  
**Low Pitch Angle:** 13.0 +-0.2  
**Stud Protrusion:** 1.450 +-0.030

**Startlock Angle:**  
**Feather/High Angle:** 32.0 +-1.0  
**Cwt Angle:**

### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>            | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|-------------------------------|-----------------|----------------|-----------------|
| PROPELLER        | J3F00502           | HC-J3YF-1RF/F8068-2[*2]/SM44  | 1               | A/C            |                 |
| PROPELLER        | J3F00502KD         | HC-J3YF-1RF/F8068-2[*2]/SM44  | 1               | A/C            |                 |
| BLADE            | F8068-2*2          | PCP:BLADE UNIT, ALUM [6,16,5] | 3               | Prop           |                 |
| SPINNER          | C-4582             | SPINNER ASSEMBLY              | 1               | Prop           |                 |
| SPINNER          | C-4582-P           | SPINNER ASSEMBLY              | 1               | Prop           |                 |
| SPIN MTG KIT     | A-2476-44          | SPINNER - MTG KIT             | 1               | Prop           |                 |
| MTG BOLT/STUD    | A-2429-4           | STUD, MOUNTING, 1/2-20        | 6               | Prop           |                 |

# HARTZELL

## APPLICATION GUIDE 159

Cessna

IDS No.: 3843      Rev.: 2      IC      Date: 02/07/2022

**Model:** 170, 170A, 170B  
**Trade Name:** 170  
**Aircraft T.C./STC:** SA02539AK  
**Propeller Model:** HC-G2YR-1N  
**Propeller T.C.:** P39EA  
**Blade Model(s):** NG8301  
                           NG8301-3  
                           NG8301-7  
**Prop Diameter:** 83", 80", 76"

**Modifier:** Stoots Aviation  
**Engine Model:** IO-370-CLC1U8  
**Power:** 195 HP @ 2700 RPM  
**Placard/Restr:** None  
**Notes:** STC amendment for this combination is pending

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** See BOM comments  
**Stud Protrusion**

**Startlock Angle:**  
**Feather/High Angle:** 30.0 +- 1.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>         | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|----------------------------|-----------------|----------------|-----------------|
| PROPELLER        | G2R00600           | HC-G2YR-1N/NG8301-3/SM8    | 1               | A/C            | LP 11.5 +/- 0.2 |
| PROPELLER        | G2R00605           | HC-G2YR-1N/NG8301/SM8      | 1               | A/C            | LP 11.5 +/- 0.2 |
| PROPELLER        | G2R00610           | HC-G2YR-1N/NG8301-7/SM8    | 1               | A/C            | LP 11.8 +/- 0.2 |
| BLADE            | NG8301             | PCP:BLADE ASSY, COMPOSITE  | 2               | Prop           |                 |
| BLADE            | NG8301-3           | PCP:BLADE ASSY, COMPOSITE  | 2               | Prop           |                 |
| BLADE            | NG8301-7           | PCP: BLADE ASSY, COMPOSITE | 2               | Prop           |                 |
| SPINNER          | C-3568-P           | SPINNER ASSEMBLY           | 1               | A/C            |                 |
| GOVERNOR         | S-1-92             | GOVERNOR ASSEMBLY, S-1-92  | 1               | A/C            |                 |
| SPIN MTG KIT     | A-2476-8           | SPINNER - MTG KIT          | 1               | Prop           |                 |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20     | 6               | Prop           |                 |

# HARTZELL

## APPLICATION GUIDE 159

Cessna

**Model:** 170; 170A; 170B  
**Trade Name:**  
**Aircraft T.C./STC:** SA02155AK  
**Propeller Model:** HC-C2YR-1N  
**Propeller T.C.:** P-920  
**Blade Model(s):** NG8301-3  
**Prop Diameter:** 80"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** 10.0 +/- 0.2  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 3724      **Rev.:** -      **IC**      **Date:** 04/07/2020

**Modifier:** David A. Stoots  
**Engine Model:** O-360-A1A; O-360-A1D  
**Power:** 180 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:**  
**Feather/High Angle:** 30.0 +/- 1.0  
**Cwt Angle:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>        | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|---------------------------|-----------------|----------------|-----------------|
| PROPELLER        | C2R40527           | HC-C2YR-1N/NG8301-3/SM8   | 1               | A/C            |                 |
| BLADE            | NG8301-3           | PCP:BLADE ASSY, COMPOSITE | 2               | Prop           |                 |
| SPINNER          | C-3568             | SPINNER ASSEMBLY          | 1               | Prop           |                 |
| SPINNER          | C-3568-P           | SPINNER ASSEMBLY          | 1               | Prop           |                 |
| SPIN MTG KIT     | A-2476-8           | SPINNER - MTG KIT         | 1               | Prop           |                 |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20    | 6               | Prop           |                 |

Cessna

**Model:** 170; 170A; 170B  
**Trade Name:**  
**Aircraft T.C./STC:** SA02155AK  
**Propeller Model:** HC-C2YR-1N  
**Propeller T.C.:** P-920  
**Blade Model(s):** NG8301  
**Prop Diameter:** 83"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** 10.0 +/- 0.2  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 3723      **Rev.:** -      **IC**      **Date:** 04/07/2020

**Modifier:** David A. Stoots  
**Engine Model:** O-360-A1A; O-360-A1D  
**Power:** 180 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:**  
**Feather/High Angle:** 30.0 +/- 1.0  
**Cwt Angle:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>        | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|---------------------------|-----------------|----------------|-----------------|
| PROPELLER        | C2R40212           | HC-C2YR-1N/NG8301/SM8     | 1               | A/C            |                 |
| BLADE            | NG8301             | PCP:BLADE ASSY, COMPOSITE | 2               | Prop           |                 |
| SPINNER          | C-3568             | SPINNER ASSEMBLY          | 1               | Prop           |                 |
| SPINNER          | C-3568-P           | SPINNER ASSEMBLY          | 1               | Prop           |                 |
| SPIN MTG KIT     | A-2476-8           | SPINNER - MTG KIT         | 1               | Prop           |                 |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20    | 6               | Prop           |                 |

# HARTZELL

## APPLICATION GUIDE

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CESSNA

IDS No.: 3798 Rev.: 1 IC Date: 01/07/2021

Model: 172-172H, P172D, 175, 175A, & 175B

Trade Name:

Aircraft T.C./STC: SA02539AK

Propeller Model: HC-C2YR-1N

Propeller T.C.: P-920

Blade Model(s): NG8301-7

Prop Diameter: 76"

### Prop Setup:

Ref. Radius: 30"

Reverse Angle:

Low Pitch Angle: 11.8 +-0.2

Stud Protrusion

Modifier: Stoots Aviation

Engine Model: IO-370-CLC1U8

Power: 195 HP @ 2700 RPM

Placard/Restr: None

Notes:

Startlock Angle:

Feather/High Angle: 26.4 +-1.0

Cwt Angle:

### Non-HPI Items:

Non-HPI Spinner:

Non-HPI Governor:

### Hartzell Approved Items:

| Item Type     | Item Number | Description                | Quantity | Qty Per | Comments |
|---------------|-------------|----------------------------|----------|---------|----------|
| PROPELLER     | C2R40580    | HC-C2YR-1N/NG8301-7/SM8    | 1        | A/C     |          |
| BLADE         | NG8301-7    | PCP: BLADE ASSY, COMPOSITE | 2        | Prop    |          |
| SPINNER       | C-3568-P    | SPINNER ASSEMBLY           | 1        | Prop    |          |
| GOVERNOR      | S-1-92      | GOVERNOR ASSEMBLY, S-1-92  | 1        | Prop    |          |
| SPIN MTG KIT  | A-2476-8    | SPINNER - MTG KIT          | 1        | Prop    |          |
| MTG BOLT/STUD | A-2067      | STUD, MOUNTING, 1/2-20     | 6        | Prop    |          |

CESSNA

IDS No.: 3810 Rev.: - IC Date: 01/06/2021

Model: 172-172H, P172D, 175, 175A, & 175B

Trade Name:

Aircraft T.C./STC: SA02539AK

Propeller Model: HC-C2YR-1N

Propeller T.C.: P-920

Blade Model(s): NG8301-3

Prop Diameter: 80"

### Prop Setup:

Ref. Radius: 30"

Reverse Angle:

Low Pitch Angle: 11.5 +-0.2

Stud Protrusion

Modifier: Stoots Aviation

Engine Model: IO-370-CLC1U8

Power: 195 HP @ 2700 RPM

Placard/Restr:

Notes:

Startlock Angle:

Feather/High Angle: 30.0 +-1.0

Cwt Angle:

### Non-HPI Items:

Non-HPI Spinner:

Non-HPI Governor:

### Hartzell Approved Items:

| Item Type     | Item Number | Description               | Quantity | Qty Per | Comments |
|---------------|-------------|---------------------------|----------|---------|----------|
| PROPELLER     | C2R40535    | HC-C2YR-1N/NG8301-3/SM8   | 1        | A/C     |          |
| BLADE         | NG8301-3    | PCP:BLADE ASSY, COMPOSITE | 2        | Prop    |          |
| SPINNER       | C-3568-P    | SPINNER ASSEMBLY          | 1        | Prop    |          |
| GOVERNOR      | S-1-92      | GOVERNOR ASSEMBLY, S-1-92 | 1        | Prop    |          |
| SPIN MTG KIT  | A-2476-8    | SPINNER - MTG KIT         | 1        | Prop    |          |
| MTG BOLT/STUD | A-2067      | STUD, MOUNTING, 1/2-20    | 6        | Prop    |          |

# HARTZELL

## APPLICATION GUIDE

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CESSNA

IDS No.: 3321      Rev.: 2      IC      Date: 03/17/2015

**Model:** 172RG  
**Trade Name:** Cutlass  
**Aircraft T.C./STC:** SA03373CH  
**Propeller Model:** HC-G2YR-1BFP  
**Propeller T.C.:** P39EA

**Modifier:** Hartzell Propeller  
**Engine Model:** O-360-F1A6  
**Power:** 180 HP @ 2700 RPM  
**Placard/Restr:** Continuous operation is prohibited between 2000 and 2300 RPM with less than 8 inches of manifold pressure.

**Blade Model(s):** F7894-1.5\*1  
**Prop Diameter:** 76.5" to 75.5"

**Notes:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** 11.3 +/-0.2  
**Stud Protrusion**

**Startlock Angle:**  
**Feather/High Angle:** 30.0 +/- 1.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>              | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>                                  |
|------------------|--------------------|---------------------------------|-----------------|----------------|--|
| PROPELLER        | G2R00150           | HC-G2YR-1BFP/F7894-1.5[*1]/SM53 | 1               | A/C            |  |
| BLADE            | F7894-1.5*1        | BLADE UNIT, ALUMINUM [6,16,11]  | 2               | Prop           |  |
| SPINNER          | 105127             | SPINNER ASSEMBLY, COMPOSITE     | 1               | Prop           |  |
| SPINNER          | 105127F1           | SPINNER ASSEMBLY, COMPOSITE     | 1               | Prop           |  |
| SPINNER          | 105127F2           | SPINNER ASSEMBLY, COMPOSITE     | 1               | Prop           |  |
| SPIN MTG KIT     | A-2476-19          | SPINNER - MTG KIT               | 1               | Prop           | Cannot be used with composite Spinner            |
| SPIN MTG KIT     | A-2476-53          | SPINNER - MTG KIT               | 1               | Prop           | Composite Mtg Kit to be used with 105127 Spinner |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20          | 6               | Prop           |  |

# HARTZELL

## APPLICATION GUIDE

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CESSNA

**Model:** 177B  
**Trade Name:** CARDINAL  
**Aircraft T.C./STC:** SA04200CH  
**Propeller Model:** HC-C2YR-1BFP  
**Propeller T.C.:** P-920

**Blade Model(s):** F7894-1.5\*1  
**Prop Diameter:** 76.5" - 75.5"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** N/A  
**Low Pitch Angle:** 10.9 +-0.3  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>             | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>                  |
|------------------|--------------------|--------------------------------|-----------------|----------------|----------------------------------|
| PROPELLER        | C2R00758           | HC-C2YR-1BFP/F7894-1.5*1/SM63  | 1               | A/C            |                                  |
| BLADE            | F7894-1.5*1        | BLADE UNIT, ALUMINUM [6,16,11] | 2               | Prop           |                                  |
| SPINNER          | 106848             | SPINNER ASSEMBLY, COMPOSITE    | 1               | Prop           | Primed for paint                 |
| SPINNER          | 106848F1           | SPINNER ASSEMBLY, COMPOSITE    | 1               | Prop           | Painted Matterhorn White         |
| SPINNER          | 106848F2           | SPINNER ASSEMBLY, COMPOSITE    | 1               | Prop           | Painted Sterling Silver Metallic |
| SPIN MTG KIT     | A-2476-63          | SPINNER - MTG KIT              | 1               | Prop           | Use with C2R00758 propeller.     |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20         | 6               | Prop           |                                  |

**IDS No.:** 3497      **Rev.:** 2      **IC Date:** 12/14/2017

**Modifier:** HARTZELL PROPELLER

**Engine Model:** O-360-A1F6(D)

**Power:** 180 HP @ 2700 RPM

**Placard/Restr:** Continuous operation is prohibited between 2000 and 2300 RPM with less than 8 inches of manifold pressure.

**Notes:** This applies to aircraft equipped with or without Power Flow tuned exhaust STC SA02115AT.

**Startlock Angle:** N/A

**Feather/High Angle:** 34.0 +-0.5

**Cwt Angle:**

**Non-HPI Governor:**

# HARTZELL

CESSNA

**Model:** 177RG; F177RG  
**Trade Name:** CARDINAL  
**Aircraft T.C./STC:** SA04200CH  
**Propeller Model:** HC-C2YR-1BFP  
**Propeller T.C.:** P-920

**Blade Model(s):** F7894  
**Prop Diameter:** 78" - 77"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** 11.5 +/- 0.2  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

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**IDS No.:** 3488      **Rev.:** 2      **IC Date:** 05/03/2017

**Modifier:** HARTZELL  
**Engine Model:** IO-360-A1B6(D)  
**Power:** 200 HP @ 2700 RPM  
**Placard/Restr:** Continuous operation is prohibited between 2000 and 2300 RPM with less than 10 inches of manifold pressure.

### **Notes:**

**Startlock Angle:**  
**Feather/High Angle:** 30.0 +/- 1.0  
**Cwt Angle:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>             | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|--------------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | C2R00774           | HC-C2YR-1BFP/F7894/SM63        | 1               | A/C            |                          |
| BLADE            | F7894              | PCP:BLADE UNIT,ALUM. [6,16,11] | 2               | Prop           |                          |
| SPINNER          | 106848             | SPINNER ASSEMBLY, COMPOSITE    | 1               | A/C            | Primed for paint         |
| SPINNER          | 106848F1           | SPINNER ASSEMBLY, COMPOSITE    | 1               | A/C            | Matterhorn White         |
| SPINNER          | 106848F2           | SPINNER ASSEMBLY, COMPOSITE    | 1               | A/C            | Sterling Silver Metallic |
| SPIN MTG KIT     | A-2476-63          | SPINNER - MTG KIT              | 1               | Prop           |                          |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20         | 6               | Prop           |                          |
| OVERHAUL KIT     | HC-C2YR-1BF-OH     | O/H KIT                        | 1               |                |                          |

# HARTZELL

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CESSNA


IDS No.: 3504 Rev.: 6 IC Date: 12/20/2018

Model: 180 to 180J  
 Trade Name: Skywagon  
 Aircraft T.C./STC: SA04353CH  
 Propeller Model: DHC-G2YF-1BFP  
 Propeller T.C.: P39EA  
 Blade Model(s): F8068+2  
 Prop Diameter: 82" - 78"

Modifier: Hartzell Propeller  
 Engine Model: O-470 series  
 Power: 230 HP @ 2600 RPM  
 Placard/Restr: None.  
 Notes:

### Prop Setup:

Ref. Radius: 30  
 Reverse Angle:  
 Low Pitch Angle: 14.0 +/- 0.2  
 Stud Protrusion 1.210 +/- .030

Startlock Angle:  
 Feather/High Angle: 29.7  1.0  
 Cwt Angle:

### Non-HPI Items:

Non-HPI Spinner:

Non-HPI Governor:

### Hartzell Approved Items:

| Item Type     | Item Number | Description                   | Quantity | Qty Per | Comments |
|---------------|-------------|-------------------------------|----------|---------|----------|
| #Error        | F8068+2*7   | PCP:BLADE UNIT, ALUM [6,1,11] | 1        |         |          |
| PROPELLER     | G2F00156    | DHC-G2YF-1BFP/F8068+2/SM48    | 1        | A/C     |          |
| PROPELLER     | G2F00158    | DHC-G2YF-1BFP/F8068+2*7/SM48  | 1        | A/C     |          |
| BLADE         | F8068+2     | PCP:BLADE UNIT, ALUM [1,1,5]  | 2        | Prop    |          |
| SPINNER       | A-2298-2    | SPINNER ASSEMBLY              | 1        | Prop    |          |
| SPINNER       | A-2298-2P   | SPINNER ASSEMBLY              | 1        | Prop    |          |
| SPIN MTG KIT  | A-2476-48   | SPINNER - MTG KIT             | 1        | Prop    |          |
| MTG BOLT/STUD | A-2429-5    | STUD, MOUNTING, 1/2-20        | 6        | Prop    |          |



# HARTZELL

## APPLICATION GUIDE 159

CESSNA

**Model:** 180()  
**Trade Name:** SKYWAGON  
**Aircraft T.C./STC:** SA02735CH  
**Propeller Model:** HC-C3YF-1RF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** F8068-2\*2  
**Prop Diameter:** 80" to 78"

**IDS No.:** 2921      **Rev.:** 1      **IC Date:** 07/16/2015

**Modifier:** Vitatoe Aviation LLC  
**Engine Model:** IO-520-D  
**Power:** 300 HP @ 2850 RPM  
**Placard/Restr:**

**Notes:** This installation data sheet is limited to aircraft that have been converted by Air Plains Service Corporation STC SA01345AT

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** 11.3 + - 0.2  
**Stud Protrusion:** 1.450 + - 0.030

**Startlock Angle:**  
**Feather/High Angle:** 32.0 + - 1.0  
**Cwt Angle:**

### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>            | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|-------------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | C3F07550           | HC-C3YF-1RF/F8068-2[*2]/SM30  | 1               | A/C            |                          |
| PROPELLER        | C3F07550KD         | HC-C3YF-1RF/F8068-2[*2]/SM30  | 1               | A/C            |                          |
| BLADE            | F8068-2*2          | PCP:BLADE UNIT, ALUM [6,16,5] | 3               | Prop           |                          |
| SPINNER          | C-3535-1           | SPINNER ASSEMBLY              | 1               | Prop           |                          |
| SPINNER          | C-3535-1P          | SPINNER ASSEMBLY              | 1               | Prop           |                          |
| SPIN MTG KIT     | A-2476-30          | SPINNER - MTG KIT             | 1               | Prop           |                          |
| MTG BOLT/STUD    | A-2429-4           | STUD, MOUNTING, 1/2-20        | 6               | Prop           |                          |
| MTG BOLT/STUD    | A-2429-4           | STUD, MOUNTING, 1/2-20        | 6               | Prop           |                          |
| OVERHAUL KIT     | HC-C3YF-1RF-OH     | O/H KIT                       | 1               | Prop           | For aftermarket use only |

# HARTZELL

## APPLICATION GUIDE

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CESSNA

**Model:** 180()  
**Trade Name:** SKYWAGON  
**Aircraft T.C./STC:** SA02821CH  
**Propeller Model:** HC-C3YF-1RF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** F8068-2\*2  
**Prop Diameter:** 80" to 78"

**IDS No.:** 2994      **Rev.:** 2      **IC Date:** 07/16/2015

**Modifier:** Hartzell Propeller  
**Engine Model:** IO-520-D  
**Power:** 300 HP @ 2850 RPM  
**Placard/Restr:**

**Notes:** This installation data sheet is limited to aircraft that have been converted by Air Plains Service Corporation STC SA01345AT

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** 11.3 + - 0.2  
**Stud Protrusion:** 1.450 + - 0.030

**Startlock Angle:**  
**Feather/High Angle:** 32.0 + - 1.0  
**Cwt Angle:**

### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>            | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|-------------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | C3F07550           | HC-C3YF-1RF/F8068-2[*2]/SM30  | 1               | A/C            |                          |
| PROPELLER        | C3F07550KD         | HC-C3YF-1RF/F8068-2[*2]/SM30  | 1               | A/C            |                          |
| BLADE            | F8068-2*2          | PCP:BLADE UNIT, ALUM [6,16,5] | 3               | Prop           |                          |
| SPINNER          | C-3535-1           | SPINNER ASSEMBLY              | 1               | Prop           |                          |
| SPINNER          | C-3535-1P          | SPINNER ASSEMBLY              | 1               | Prop           |                          |
| SPIN MTG KIT     | A-2476-30          | SPINNER - MTG KIT             | 1               | Prop           |                          |
| MTG BOLT/STUD    | A-2429-4           | STUD, MOUNTING, 1/2-20        | 6               | Prop           |                          |
| OVERHAUL KIT     | HC-C3YF-1RF-OH     | O/H KIT                       | 1               | Prop           | For aftermarket use only |

# HARTZELL

## APPLICATION GUIDE 159

Cessna

IDS No.: 3777 Rev.: 4 IC Date: 07/15/2021

**Model:** 180, 180(A-K)  
**Trade Name:** Skywagon  
**Aircraft T.C./STC:** SA04491CH

**Modifier:** Hartzell Propeller Inc.  
**Engine Model:** O-470-50, O-520-LC/TS, O-550-F-TS, O-520-F-TS, IO-520-D, O-520-KAH(1,2), IO-550-D

**Propeller Model:** HC-C3YF-1RF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** F8429  
 F8429-4  
 F8429-6

**Power:** 310 HP @ 2850 RPM  
**Placard/Restr:** None  
**Notes:**

**Prop Diameter:** 86", 82", 80" (repair up to 2" dia. reduction)  
**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** See Comments/BOM Notes  
**Stud Protrusion:** 1.210 +/- .015

**Startlock Angle:**  
**Feather/High Angle:** 29.0 +/- 1.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type     | Item Number | Description                     | Quantity | Qty Per | Comments  |
|---------------|-------------|---------------------------------|----------|---------|---|
| PROPELLER     | C3F04968    | HC-C3YF-1RF/F8429/SM7           | 1        | A/C     | LP 10.0 +/- 0.2   |
| PROPELLER     | C3F04974    | HC-C3YF-1RF/F8429-4/SM30        | 1        | A/C     | LP 12.0 +/- 0.2 (for STC SA00785AT with IO-550-D 300 @ 2700)                                  |
| PROPELLER     | C3F04984    | HC-C3YF-1RF/F8429/SM30          | 1        | A/C     | LP 10.1 +/- 0.2 (STC SA00468WI with O-470-50 235 @ 2700)                                      |
| PROPELLER     | C3F04984KD  | HC-C3YF-1RF/F8429/SM30          | 1        | A/C     | LP 10.1 +/- 0.2 (STC SA00468WI with O-470-50 235 @ 2700)                                      |
| PROPELLER     | C3F04988    | HC-C3YF-1RF/F8429-6/SM30        | 1        | A/C     | LP 10.9 +/- 0.2 (STC SA01345AT IO-520-D 300 @ 2850)   |
| PROPELLER     | C3F04994    | HC-C3YF-1RF/F8429-4/SM30        | 1        | A/C     | LP 11.3 +/- 0.2 (STC SA2069NM 270 @ 2700)   |
| PROPELLER     | C3F04998    | HC-C3YF-1RF/F8429-4/SM30        | 1        | A/C     | LP 10.5 +/- 0.2 (STC SA09055SC, SA09132SC, or SA09018SC with O-520(-)-TS with 235/240 @ 2700) |
| BLADE         | F8429       | PCP: BLADE UNIT, ALUM [6,16,11] | 3        | Prop    |   |
| BLADE         | F8429-4     | PCP: BLADE UNIT, ALUM [6,16,11] | 3        | Prop    |   |
| BLADE         | F8429-6     | PCP: BLADE UNIT, ALUM [6,16,11] | 3        | Prop    |   |
| SPINNER       | A-2295-1    | SPINNER ASSEMBLY                | 1        | Prop    | For use with SA00468WI, SA00785AT & SA2069NW  |
| SPINNER       | A-2295-1P   | SPINNER ASSEMBLY                | 1        | Prop    | For use with SA00468WI, SA00785AT & SA2069NW  |
| SPINNER       | C-3535-1P   | SPINNER ASSEMBLY                | 1        | Prop    | For use with SA01345AT  |
| SPINNER       | C-4582-P    | SPINNER ASSEMBLY                | 1        | Prop    | Optional for SA09055SC and SA09132SC  |
| SPINNER       | D-5732-P    | SPINNER ASSEMBLY                | 1        | A/C     | For use with SA09055SC, SA09132SC & SA09018SC   |
| SPIN MTG KIT  | A-2476-30   | SPINNER - MTG KIT               | 1        | Prop    |   |
| MTG BOLT/STUD | A-2429-5    | STUD, MOUNTING, 1/2-20          | 6        | Prop    |   |

# HARTZELL

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**CESSNA**

**Model:** 182 thru 182G  
**Trade Name:** SKYLANE  
**Aircraft T.C./STC:** SA00854AT  
**Propeller Model:** PHC-C3YF-1RF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** F8468A-6R  
**Prop Diameter:** 80.0" TO 77.0"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 10.9 +-0.1  
**Stud Protrusion** 1.450 +-0.030

**Non-HPI Items:**

**Non-HPI Spinner:**

**IDS No.:** 3605      **Rev.:** 1      **IC Date:** 12/20/2018

**Modifier:** JOHN JEWELL AIRCRAFT, INC.  
**Engine Model:** O-470-(L,R)  
**Power:** 230 HP @ 2600 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 31.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>           | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|------------------------------|-----------------|----------------|-----------------|
| PROPELLER        | C3F00141           | PHC-C3YF-1RF/F8468A-6R/SM7   | 1               | A/C            |                 |
| PROPELLER        | C3F00141KD         | PHC-C3YF-1RF/F8468A-6R/SM7   | 1               | A/C            |                 |
| BLADE            | F8468A-6R          | PCP:BLADE UNIT, ALUM [1,1,1] | 3               | Prop           |                 |
| SPINNER          | A-2295-1           | SPINNER ASSEMBLY             | 1               | Prop           |                 |
| SPINNER          | A-2295-1P          | SPINNER ASSEMBLY             | 1               | Prop           |                 |
| SPINNER          | C-3535-1           | SPINNER ASSEMBLY             | 1               | Prop           |                 |
| SPINNER          | C-3535-1P          | SPINNER ASSEMBLY             | 1               | Prop           |                 |
| SPIN MTG KIT     | A-2476-7           | SPINNER - MTG KIT            | 1               | Prop           |                 |
| MTG BOLT/STUD    | A-2429-4           | STUD, MOUNTING, 1/2-20       | 6               | Prop           |                 |

# HARTZELL

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CESSNA

IDS No.: 3606 Rev.: 1 IC Date: 12/20/2018

Model: 182 thru 182G  
 Trade Name: SKYLANE  
 Aircraft T.C./STC: SA00854AT  
 Propeller Model: PHC-C3YF-1RF  
 Propeller T.C.: P25EA  
 Blade Model(s): F7691  
 Prop Diameter: 78.0" TO 77.0"

Modifier: JOHN JEWELL AIRCRAFT, INC.  
 Engine Model: O-470-(L,R)  
 Power: 230 HP @ 2600 RPM  
 Placard/Restr:  
 Notes:

**Prop Setup:**

Ref. Radius: 30  
 Reverse Angle: NA  
 Low Pitch Angle: 12.5 +-0.1  
 Stud Protrusion 1.450 +-0.030

Startlock Angle: NA  
 Feather/High Angle: 31.0 +-1.0  
 Cwt Angle:

**Non-HPI Items:**

Non-HPI Spinner:

Non-HPI Governor:

**Hartzell Approved Items:**

| Item Type     | Item Number     | Description                  | Quantity | Qty Per | Comments                 |
|---------------|-----------------|------------------------------|----------|---------|--------------------------|
| PROPELLER     | C3F00020        | PHC-C3YF-1RF/F7691/SM7       | 1        | A/C     |                          |
| PROPELLER     | C3F00020KD      | PHC-C3YF-1RF/F7691/SM7       | 1        | A/C     |                          |
| BLADE         | F7691           | PCP:BLADE UNIT, ALUM [1,1,5] | 3        | Prop    |                          |
| SPINNER       | A-2295-1        | SPINNER ASSEMBLY             | 1        | Prop    |                          |
| SPINNER       | A-2295-1P       | SPINNER ASSEMBLY             | 1        | Prop    |                          |
| SPINNER       | C-3535-1        | SPINNER ASSEMBLY             | 1        | Prop    |                          |
| SPINNER       | C-3535-1P       | SPINNER ASSEMBLY             | 1        | Prop    |                          |
| SPIN MTG KIT  | A-2476-7        | SPINNER - MTG KIT            | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2429-4        | STUD, MOUNTING, 1/2-20       | 6        | Prop    | Use w/E-7154-2R Hub Only |
| OVERHAUL KIT  | PHC-C3YF-1RF*1  | O/H KIT W/O SLIMSERTS        | 1        | Prop    | For aftermarket use only |
| OVERHAUL KIT  | PHC-C3YF-1RF-OH | O/H KIT                      | 1        | Prop    | For aftermarket use only |

# HARTZELL

## APPLICATION GUIDE 159

CESSNA

IDS No.: 3506 Rev.: 6 IC Date: 11/06/2020

**Model:** 182 to 182P  
**Trade Name:** Skylane  
**Aircraft T.C./STC:** SA04353CH  
**Propeller Model:** (B,D)HC-G2YF-1BFP  
**Propeller T.C.:** P39EA  
**Blade Model(s):** F8068+2  
 F8068+2\*7  
**Prop Diameter:** 82" - 78"

**Modifier:** Hartzell Propeller  
**Engine Model:** O-470 series  
**Power:** 230 HP @ 2600 RPM  
**Placard/Restr:** None

**Notes:** Use spinner model D-4798-2(P) on 182-182G; D-4798(P) on 182H-182P & F182P

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** 14.0 +/- 0.2  
**Stud Protrusion** 1.210 .015

**Startlock Angle:**  
**Feather/High Angle:** 29.7 1.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type     | Item Number | Description                   | Quantity | Qty Per | Comments               |
|---------------|-------------|-------------------------------|----------|---------|------------------------|
| PROPELLER     | G2F00157    | DHC-G2YF-1BFP/F8068+2/SM4     | 1        | A/C     |                        |
| PROPELLER     | G2F00159    | DHC-G2YF-1BFP/F8068+2*7/SM4   | 1        | A/C     |                        |
| PROPELLER     | G2F00160    | BHC-G2YF-1BFP/F8068+2*7/SM4   | 1        | A/C     |                        |
| BLADE         | F8068+2     | PCP:BLADE UNIT, ALUM [1,1,5]  | 2        | Prop    |                        |
| BLADE         | F8068+2*7   | PCP:BLADE UNIT, ALUM [6,1,11] | 2        | Prop    |                        |
| SPINNER       | D-4798      | SPINNER ASSEMBLY              | 1        | Prop    | For use models 182H-P. |
| SPINNER       | D-4798-2    | SPINNER ASSEMBLY              | 1        | Prop    | For use models 182-G.  |
| SPINNER       | D-4798-2P   | SPINNER ASSEMBLY              | 1        | Prop    | For use models 182-G.  |
| SPINNER       | D-4798P     | SPINNER ASSEMBLY              | 1        | Prop    | For use models 182H-P. |
| SPIN MTG KIT  | A-2476-4    | SPINNER - MTG KIT             | 1        | Prop    |                        |
| MTG BOLT/STUD | A-2429-5    | STUD, MOUNTING, 1/2-20        | 6        | Prop    |                        |

# HARTZELL

## APPLICATION GUIDE 159

Cessna

IDS No.: 3779 Rev.: 1 IC Date: 05/25/2021

**Model:** 182, 182(A-G), 182(H-R)

**Trade Name:** Skylane

**Aircraft T.C./STC:** SA04491CH

**Propeller Model:** HC-G3YF-1RF

**Propeller T.C.:** P55GL

**Blade Model(s):** F8429-4

F8429-6

**Prop Diameter:** 82", 80" (repair up to 2" dia.

**Prop Setup:** reduction)

**Ref. Radius:** 30

**Reverse Angle:**

**Low Pitch Angle:** See Comments/BOM Notes

**Stud Protrusion** 1.210 +/- .015

**Modifier:** Hartzell Propeller Inc.

**Engine Model:** IO-520-D, IO-550-D, O-550-F-TS, O-470-50

**Power:** 300 HP @ 2850 RPM

**Placard/Restr:** None

**Notes:**

**Startlock Angle:**

**Feather/High Angle:** 29.0 +/- 1.0

**Cwt Angle:**

### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| Item Type     | Item Number | Description                     | Quantity | Qty Per | Comments   |
|---------------|-------------|---------------------------------|----------|---------|--|
| PROPELLER     | G3F00530    | HC-G3YF-1RF/F8429-4/SM30        | 1        | A/C     | LP 12.0 +/- 0.2 (for use with SA3825SW with IO-550-D rated 300 @ 2700)   |
| PROPELLER     | G3F00534    | HC-G3YF-1RF/F8429-6/SM30        | 1        | A/C     | LP 11.7 +/- 0.2 (for use with SA01302AT with IO-520-D rated 285 @ 2700)  |
| PROPELLER     | G3F00538    | HC-G3YF-1RF/F8429-6/SM30        | 1        | A/C     | LP 10.9 +/- 0.2 (for use with SA461NW or SA00152WI with IO-520-D rated 300 @ 2850)   |
| PROPELLER     | G3F00540    | HC-G3YF-1RF/F8429-6/SM30        | 1        | A/C     | LP 12.3 +/- 0.2 (for use with SA01218AT, SA00810AT or SA00152WI with IO-550-D rated 300 @ 2700)                                |
| PROPELLER     | G3F00544    | HC-G3YF-1RF/F8429-6/SM30        | 1        | A/C     | LP 10.5 +/- 0.2 (for use with SA09133SC with O-550-F-TS rated 240 @ 2700, SA5664NM or SA5966NM with O-470-50 rated 235 @ 2700) |
| BLADE         | F8429-4     | PCP: BLADE UNIT, ALUM [6,16,11] | 3        | Prop    |  |
| BLADE         | F8429-6     | PCP: BLADE UNIT, ALUM [6,16,11] | 3        | Prop    |  |
| SPINNER       | C-4582-P    | SPINNER ASSEMBLY                | 1        | A/C     | Optional spinner with SA09133SC  |
| SPINNER       | D-4798-1P   | SPINNER ASSEMBLY                | 1        | A/C     | 182(H-R)   |
| SPINNER       | D-4798-3P   | SPINNER ASSEMBLY                | 1        | A/C     | 182, 182(A-G)  |
| SPINNER       | D-5732-P    | SPINNER ASSEMBLY                | 1        | A/C     | Optional spinner with SA09133SC, SA01302AT or SA01218AT  |
| SPIN MTG KIT  | A-2476-30   | SPINNER - MTG KIT               | 1        | Prop    |  |
| MTG BOLT/STUD | A-2429-5    | STUD, MOUNTING, 1/2-20          | 6        | Prop    |  |

# HARTZELL

## APPLICATION GUIDE 159

**CESSNA**

**Model:** 182H - 182R  
**Trade Name:** Skylane  
**Aircraft T.C./STC:** SA01952WI  
**Propeller Model:** PHC-L3Y1F-1N  
**Propeller T.C.:** P41EA  
**Blade Model(s):** NG8301-5  
**Prop Diameter:** 80"

**Prop Setup:**

**Ref. Radius:** 30"  
**Reverse Angle:**  
**Low Pitch Angle:** 11.0 +/- 0.2  
**Stud Protrusion** 1.450 +/-0.030

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number | Description               | Quantity | Qty Per | Comments |
|---------------|-------------|---------------------------|----------|---------|----------|
| PROPELLER     | L3F20140    | PHC-L3Y1F-1N/NG8301-5/SM7 | 1        | A/C     |          |
| BLADE         | NG8301-5    | PCP:BLADE ASSY, COMPOSITE | 3        | Prop    |          |
| SPINNER       | C-4582-P    | SPINNER ASSEMBLY          | 1        | Prop    |          |
| SPIN MTG KIT  | A-2476-7    | SPINNER - MTG KIT         | 1        | Prop    |          |
| MTG BOLT/STUD | A-2429-4    | STUD, MOUNTING, 1/2-20    | 6        | Prop    |          |

**IDS No.:** 3793      **Rev.:** 1      **IC Date:** 02/19/2021

**Modifier:** Air Plains Services Corporation  
**Engine Model:** IO-550-D  
**Power:** 300 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:**  
**Feather/High Angle:** 30.0 +/- 1.0  
**Cwt Angle:**

**Non-HPI Governor:**

**CESSNA**

**Model:** 182H - 182R  
**Trade Name:** Skylane  
**Aircraft T.C./STC:** SA04053CH  
**Propeller Model:** HC-G3YF-1N  
**Propeller T.C.:** P55GL  
**Blade Model(s):** NG8301-3  
**Prop Diameter:** 82"

**Prop Setup:**

**Ref. Radius:** 30"  
**Reverse Angle:**  
**Low Pitch Angle:** 10.4 +/- 0.2  
**Stud Protrusion** 1.450 +/-0.030

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number | Description               | Quantity | Qty Per | Comments |
|---------------|-------------|---------------------------|----------|---------|----------|
| PROPELLER     | G3F20600    | HC-G3YF-1N/NG8301-3/SM7   | 1        | A/C     |          |
| PROPELLER     | G3F20600KD  | HC-G3YF-1N/NG8301-3/SM7   | 1        | A/C     |          |
| BLADE         | NG8301-3    | PCP:BLADE ASSY, COMPOSITE | 3        | Prop    |          |
| SPINNER       | D-4798-1    | SPINNER ASSEMBLY          | 1        | Prop    |          |
| SPINNER       | D-4798-1P   | SPINNER ASSEMBLY          | 1        | Prop    |          |
| SPIN MTG KIT  | A-2476-7    | SPINNER - MTG KIT         | 1        | Prop    |          |
| MTG BOLT/STUD | A-2429-4    | STUD, MOUNTING, 1/2-20    | 6        | Prop    |          |

**IDS No.:** 3312      **Rev.:** 4      **IC Date:** 01/29/2021

**Modifier:** Wipaire, Inc.  
**Engine Model:** IO-550-D  
**Power:** 300 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:**  
**Feather/High Angle:** 30.0 +/- 1.0  
**Cwt Angle:**

**Non-HPI Governor:**



# HARTZELL

## APPLICATION GUIDE 159

Cessna

IDS No.: 3776      Rev.: 4      IC      Date: 02/16/2022

**Model:** 185, 185(A-E), A185(E,F)  
**Trade Name:** Skywagon  
**Aircraft T.C./STC:** SA04491CH  
**Propeller Model:** HC-C3YF-1RF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** F8429

**Modifier:** Hartzell Propeller Inc.  
**Engine Model:** IO-520-D, IO-550-D  
**Power:** 300 HP @ 2850 RPM  
**Placard/Restr:**  
**Notes:**

F8429\*2  
 F8429\*3  
 F8429\*4

**Prop Diameter:** 86" to 84"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** See Comments/BOM Notes  
**Stud Protrusion** 1.210 +/- .015

**Startlock Angle:**  
**Feather/High Angle:** 29.0 +- 1.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>              | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>   |
|------------------|--------------------|---------------------------------|-----------------|----------------|---|
| PROPELLER        | C3F04910           | HC-C3YF-1RF/F8429*3/SM30        | 1               | A/C            | LP 11.5 +/- 0.2 (IO-550-D engines 300 @ 2700)           |
| PROPELLER        | C3F04912           | HC-C3YF-1RF/F8429*3/SM30        | 1               | A/C            | LP 10.1 +/- 0.2 (IO-520-D engines 300 @ 2850)           |
| PROPELLER        | C3F04914           | HC-C3YF-1RF/F8429*4/SM30        | 1               | A/C            | LP 11.5 +/- 0.2 (IO-550-D engines 300 @ 2700)           |
| PROPELLER        | C3F04916           | HC-C3YF-1RF/F8429*4/SM30        | 1               | A/C            | LP 10.1 +/- 0.2 (IO-520-D engines 300 @ 2850)           |
| PROPELLER        | C3F04956           | HC-C3YF-1RF/F8429*2/SM30        | 1               | A/C            | LP 10.1 +/- 0.2 (IO-520-D engines 300 @ 2850)           |
| PROPELLER        | C3F04956KD         | HC-C3YF-1RF/F8429*2/SM30        | 1               | A/C            | LP 10.1 +/- 0.2 (IO-520-D engines 300 @ 2850)           |
| PROPELLER        | C3F04958           | HC-C3YF-1RF/F8429*2/SM30        | 1               | A/C            | LP 11.5 +/- 0.2 (IO-550-D engines 300 @ 2700)           |
| PROPELLER        | C3F04970           | HC-C3YF-1RF/F8429/SM30          | 1               | A/C            | LP 11.5 +/- 0.2 (IO-550-D engines 300 @ 2700)           |
| PROPELLER        | C3F04984           | HC-C3YF-1RF/F8429/SM30          | 1               | A/C            | LP 10.1 +/- 0.2 (IO-520-D engines 300 @ 2850)           |
| BLADE            | F8429              | PCP: BLADE UNIT, ALUM [6,16,11] | 3               | Prop           | Silver metallic blades with white tip stripes           |
| BLADE            | F8429*2            | PCP: BLADE UNIT, ALUM [3,1,11]  | 3               | Prop           | Black blades with white tip stripes                     |
| BLADE            | F8429*3            | PCP: BLADE UNIT, ALUM [3,10,11] | 3               | Prop           | Black blades with white red white tip stripes           |
| BLADE            | F8429*4            | PCP: BLADE UNIT, ALUM [6,10,11] | 3               | Prop           | Silver metallic blades with white/red/white tip stripes |
| SPINNER          | C-3575             | SPINNER ASSEMBLY                | 1               | Prop           |   |
| SPINNER          | C-3575-P           | SPINNER ASSEMBLY                | 1               | Prop           |   |
| SPIN MTG KIT     | A-2476-30          | SPINNER - MTG KIT               | 1               | Prop           |   |
| MTG BOLT/STUD    | A-2429-5           | STUD, MOUNTING, 1/2-20          | 6               | Prop           |   |

# HARTZELL

## APPLICATION GUIDE 159

CESSNA

IDS No.: 2919      Rev.: 2      IC      Date: 07/16/2015

**Model:** 185, A185  
**Trade Name:** Skywagon  
**Aircraft T.C./STC:** SA02735CH  
**Propeller Model:** HC-C3YF-1RF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** F8068-2\*2  
**Prop Diameter:** 80" to 78"

**Modifier:** Vitatoe Aviation LLC  
**Engine Model:** IO-520-D  
**Power:** 300 HP @ 2850 RPM  
**Placard/Restr:**

**Notes:** For Cessna A185, this installation data sheet is limited to aircraft that have been converted by Kenmore Air Harbor STC SA525NW

A-2476-6  
 Spinner Mounting Kit and C-3575(-P)  
 Spinner Assembly may only be used together

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** 11.3 + - 0.2  
**Stud Protrusion** 1.450 + - 0.030

**Startlock Angle:**  
**Feather/High Angle:** 32.0 + - 1.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>            | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|-------------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | C3F07551           | HC-C3YF-1RF/F8068-2[*2]/SM6   | 1               | A/C            |                          |
| PROPELLER        | C3F07551KD         | HC-C3YF-1RF/F8068-2[*2]/SM6   | 1               | A/C            |                          |
| BLADE            | F8068-2*2          | PCP:BLADE UNIT, ALUM [6,16,5] | 3               | Prop           |                          |
| SPINNER          | C-3575             | SPINNER ASSEMBLY              | 1               | Prop           | See Notes                |
| SPINNER          | C-3575-P           | SPINNER ASSEMBLY              | 1               | Prop           | See Notes                |
| SPIN MTG KIT     | A-2476-6           | SPINNER - MTG KIT             | 1               | Prop           |                          |
| MTG BOLT/STUD    | A-2429-4           | STUD, MOUNTING, 1/2-20        | 6               | Prop           |                          |
| OVERHAUL KIT     | HC-C3YF-1RF-OH     | O/H KIT                       | 1               | Prop           | For aftermarket use only |

# HARTZELL

## APPLICATION GUIDE 159

CESSNA

IDS No.: 2992      Rev.: 4      IC      Date: 07/16/2015

**Model:** 185, A185  
**Trade Name:** Skywagon  
**Aircraft T.C./STC:** SA02821CH  
**Propeller Model:** HC-C3YF-1RF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** F8068-2\*2  
**Prop Diameter:** 80" to 78"

**Modifier:** Hartzell Propeller  
**Engine Model:** IO-520-D  
**Power:** 300 HP @ 2850 RPM  
**Placard/Restr:**

**Notes:** For Cessna A185, this installation data sheet is limited to aircraft that have been converted by Kenmore Air Harbor STC SA525NW

A-2476-6  
 Spinner Mounting Kit and C-3575(-P)  
 Spinner Assembly may only be used together

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** 11.3 + - 0.2  
**Stud Protrusion** 1.450 + - 0.030

**Startlock Angle:**  
**Feather/High Angle:** 32.0 + - 1.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>            | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|-------------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | C3F07551           | HC-C3YF-1RF/F8068-2[*2]/SM6   | 1               | A/C            |                          |
| PROPELLER        | C3F07551KD         | HC-C3YF-1RF/F8068-2[*2]/SM6   | 1               | A/C            |                          |
| BLADE            | F8068-2*2          | PCP:BLADE UNIT, ALUM [6,16,5] | 3               | Prop           |                          |
| SPINNER          | C-3575             | SPINNER ASSEMBLY              | 1               | Prop           | See Notes                |
| SPINNER          | C-3575-P           | SPINNER ASSEMBLY              | 1               | Prop           | See Notes                |
| SPIN MTG KIT     | A-2476-6           | SPINNER - MTG KIT             | 1               | Prop           |                          |
| MTG BOLT/STUD    | A-2429-4           | STUD, MOUNTING, 1/2-20        | 6               | Prop           |                          |
| OVERHAUL KIT     | HC-C3YF-1RF-OH     | O/H KIT                       | 1               | Prop           | For aftermarket use only |

# HARTZELL

## APPLICATION GUIDE 159

CESSNA

**Model:** 185, A185, ( )206( )  
**Trade Name:** Skywagon, Stationair  
**Aircraft T.C./STC:** TBD  
**Propeller Model:** HC-C3YF-1RF  
**Propeller T.C.:** P25EA  
**Blade Model(s):**  
**Prop Diameter:** 80-78

**IDS No.:** 2901 **Rev.:** - **DM Date:** 10/12/2009

**Modifier:** Vitatoe Aviation LLC  
**Engine Model:** IO-550-D, IO-550-F  
**Power:** 300 HP @ 2700 RPM  
**Placard/Restr:**

**Notes:** C-3575-P for eligibility see STC SA1522GL or STC SA2933SO. C-3535P for eligibility see STC SA2933SO. A-2295-1 for eligibility see STC SA00332AT & STC SASA1482GL (U206( ) ). D-5732-P for eligibility see STC SA10010SC ( )6( ).

### Prop Setup:

**Ref. Radius:**  
**Reverse Angle:**  
**Low Pitch Angle:** 12.8  
**Stud Protrusion**

**Startlock Angle:**  
**Feather/High Angle:** 32.0  
**Cwt Angle:**

### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u> | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|--------------------|-----------------|----------------|-----------------|
| SPINNER          | A-2295-1           | SPINNER ASSEMBLY   | 1               | Prop           | See notes       |
| SPINNER          | C-3535P            | SPINNER ASSEMBLY   | 1               | Prop           | See notes       |
| SPINNER          | C-3575-P           | SPINNER ASSEMBLY   | 1               | Prop           | See notes       |
| SPINNER          | D-5732-P           | SPINNER ASSEMBLY   | 1               | Prop           | See notes       |
| SPIN MTG KIT     | A-2476-30          | SPINNER - MTG KIT  | 1               | Prop           | See notes       |

# HARTZELL

## APPLICATION GUIDE

159

Cessna

IDS No.: 3778 Rev.: 2 IC Date: 04/28/2021

**Model:** 206, P206A (C-hub), U206(A-F), U206G (up to S/N 4074) (TP206A (C-hub), TU206A thru TU206F (up to S/N 2199) as mod. by SA01300AT or SA02507AT-D

**Modifier:** Hartzell Propeller Inc.

**Trade Name:** Stationair  
**Aircraft T.C./STC:** SA04491CH

**Engine Model:** IO-520-A, IO-520-F, IO-520-F-CF, IO-550-F, IO-550-F-CF, IO-550-N

**Propeller Model:** HC-C3YF-1RF

**Power:** 310 HP @ 2850 RPM

**Propeller T.C.:** P25EA

**Placard/Restr:** None

**Blade Model(s):** F8429  
F8429-4  
F8429-6

**Notes:** 86" diameter for floatplanes only. 84" diameter for 2700 RPM rating. 82" diameter for 2800 and 2850 ratings.

**Prop Diameter:** 86", 84" and 82"

### Prop Setup:

**Ref. Radius:** 30

**Startlock Angle:**

**Reverse Angle:**

**Feather/High Angle:** 29.0 +- 1.0

**Low Pitch Angle:** See Comments/BOM Notes

**Cwt Angle:**

**Stud Protrusion** 1.210 +/- .015

### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| Item Type     | Item Number | Description                     | Quantity | Qty Per | Comments   |
|---------------|-------------|---------------------------------|----------|---------|--|
| PROPELLER     | C3F04970    | HC-C3YF-1RF/F8429/SM30          | 1        | A/C     | LP 11.5 +/- 0.2 (Floatplane all models w/ either STC SA10010SC, SA00332AT, SA1482GL, SA02507AT-D, SA02768CH using IO-550-F-CF, SA2830SO, or SA01300AT) |
| PROPELLER     | C3F04974    | HC-C3YF-1RF/F8429-4/SM30        | 1        | A/C     | LP 12.0 +/- 0.2 (Landplane all models using STC SA10010SC, SA00332AT, SA1482GL, SA02507AT-D, SA4728NM, SA2830SO, or SA01300AT)                         |
| PROPELLER     | C3F04980    | HC-C3YF-1RF/F8429/SM30          | 1        | A/C     | LP 11.2 +/- 0.2 (Floatplane all models with IO-520-A 285 @ 2700)   |
| PROPELLER     | C3F04984    | HC-C3YF-1RF/F8429/SM30          | 1        | A/C     | LP 10.1 +/- 0.2 (Floatplane models with IO-520-F)  |
| PROPELLER     | C3F04988    | HC-C3YF-1RF/F8429-6/SM30        | 1        | A/C     | LP 10.9 +/- 0.2 (Landplane, all models with IO-520-F except U206G with IO-520-F and TU206G and with STC SA02768CH using IO-520-F-CF)                   |
| PROPELLER     | C3F04990    | HC-C3YF-1RF/F8429-4/SM30        | 1        | A/C     | LP 11.7 +/- 0.2 (Landplane all models with IO-520-A 285 @ 2700)  |
| BLADE         | F8429       | PCP: BLADE UNIT, ALUM [6,16,11] | 3        | Prop    |  |
| BLADE         | F8429-4     | PCP: BLADE UNIT, ALUM [6,16,11] | 3        | Prop    |  |
| BLADE         | F8429-6     | PCP: BLADE UNIT, ALUM [6,16,11] | 3        | Prop    |  |
| SPINNER       | A-2295-1    | SPINNER ASSEMBLY                | 1        | Prop    |  |
| SPINNER       | A-2295-1P   | SPINNER ASSEMBLY                | 1        | Prop    |  |
| SPINNER       | D-5732-P    | SPINNER ASSEMBLY                | 1        | Prop    | Optional with STC SA10010SC  |
| SPIN MTG KIT  | A-2476-30   | SPINNER - MTG KIT               | 1        |         |  |
| MTG BOLT/STUD | A-2429-5    | STUD, MOUNTING, 1/2-20          | 6        | Prop    |  |

# HARTZELL

## APPLICATION GUIDE

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CESSNA

**Model:** 207, 207A  
**Trade Name:** Stationair 7, Stationair 8  
**Aircraft T.C./STC:** SA02735CH  
**Propeller Model:** HC-C3YF-1RF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** F8068-2\*2  
**Prop Diameter:** 80" - 78"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** 11.3 + - 0.2  
**Stud Protrusion** 1.450 + - 0.030

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number    | Description                   | Quantity | Qty Per | Comments                 |
|---------------|----------------|-------------------------------|----------|---------|--------------------------|
| PROPELLER     | C3F07550       | HC-C3YF-1RF/F8068-2[*2]/SM30  | 1        | A/C     |                          |
| PROPELLER     | C3F07550KD     | HC-C3YF-1RF/F8068-2[*2]/SM30  | 1        | A/C     |                          |
| BLADE         | F8068-2*2      | PCP:BLADE UNIT, ALUM [6,16,5] | 3        | Prop    |                          |
| SPINNER       | A-2295-1       | SPINNER ASSEMBLY              | 1        | Prop    |                          |
| SPINNER       | A-2295-1P      | SPINNER ASSEMBLY              | 1        | Prop    |                          |
| SPIN MTG KIT  | A-2476-30      | SPINNER - MTG KIT             | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2429-4       | STUD, MOUNTING, 1/2-20        | 6        | Prop    |                          |
| MTG BOLT/STUD | A-2429-4       | STUD, MOUNTING, 1/2-20        | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-C3YF-1RF-OH | O/H KIT                       | 1        | Prop    | For aftermarket use only |

**IDS No.:** 2920      **Rev.:** 1      **IC**      **Date:** 07/16/2015

**Modifier:** Vitatoe Aviation LLC  
**Engine Model:** IO-520-F  
**Power:** 300 HP @ 2850 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:**  
**Feather/High Angle:** 32.0 + - 1.0  
**Cwt Angle:**

**Non-HPI Governor:**

CESSNA

**Model:** 207, 207A  
**Trade Name:** Stationair 7, Stationair 8  
**Aircraft T.C./STC:** SA02821CH  
**Propeller Model:** HC-C3YF-1RF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** F8068-2\*2  
**Prop Diameter:** 80" - 78"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** 11.3 + - 0.2  
**Stud Protrusion** 1.450 + - 0.030

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number    | Description                   | Quantity | Qty Per | Comments                 |
|---------------|----------------|-------------------------------|----------|---------|--------------------------|
| PROPELLER     | C3F07550       | HC-C3YF-1RF/F8068-2[*2]/SM30  | 1        | A/C     |                          |
| PROPELLER     | C3F07550KD     | HC-C3YF-1RF/F8068-2[*2]/SM30  | 1        | A/C     |                          |
| BLADE         | F8068-2*2      | PCP:BLADE UNIT, ALUM [6,16,5] | 3        | Prop    |                          |
| SPINNER       | A-2295-1       | SPINNER ASSEMBLY              | 1        | Prop    |                          |
| SPINNER       | A-2295-1P      | SPINNER ASSEMBLY              | 1        | Prop    |                          |
| SPIN MTG KIT  | A-2476-30      | SPINNER - MTG KIT             | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2429-4       | STUD, MOUNTING, 1/2-20        | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-C3YF-1RF-OH | O/H KIT                       | 1        | Prop    | For aftermarket use only |

**IDS No.:** 2993      **Rev.:** 2      **IC**      **Date:** 07/16/2015

**Modifier:** Hartzell Propeller  
**Engine Model:** IO-520-F  
**Power:** 300 HP @ 2850 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:**  
**Feather/High Angle:** 32.0 + - 1.0  
**Cwt Angle:**

**Non-HPI Governor:**

# HARTZELL

## APPLICATION GUIDE 159

CESSNA

IDS No.: 3508 Rev.: 4 IC Date: 06/16/2017

**Model:** 208 and 208B  
**Trade Name:** SuperVan 900  
**Aircraft T.C./STC:** SA09872AC  
**Propeller Model:** HC-E4N-5KL  
**Propeller T.C.:** P10NE

**Modifier:** Texas Turbines  
**Engine Model:** TPE-331-12JR  
**Power:** 900 HP @ 1591 RPM  
**Placard/Restr:** Stabilized ground operation is prohibited below 1082 (68%) RPM.

**Blade Model(s):** JNC10904  
 JNC10904B

**Notes:**

**Prop Diameter:** 110"

**Prop Setup:**

**Ref. Radius:** 42  
**Reverse Angle:** -13.0 +/- 0.5  
**Low Pitch Angle:** N/A

**Startlock Angle:** -4.0 +/- 0.1

**Feather/High Angle:** 81.0 +/- 0.5

**Cwt Angle:**

**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type                   | Item Number | Description                   | Quantity | Qty Per | Comments   |
|-----------------------------|-------------|-------------------------------|----------|---------|--|
| #Error                      | 106996      | TIMER, DE-ICE                 |          |         |  |
| PROPELLER                   | E4N12060S   | HC-E4N-5KL/JNC10904B/106500P  | 1        | A/C     |  |
| PROPELLER                   | E4N12060SKD | HC-E4N-5KL/JNC10904B/106500P  | 1        | A/C     |  |
| PROPELLER                   | E4N12062S   | HC-E4N-5KL/JNC10904/106500P   | 1        | A/C     |  |
| PROPELLER                   | E4N12062SKD | HC-E4N-5KL/JNC10904/106500P   | 1        | A/C     |  |
| BLADE                       | JNC10904    | PCP:BLADE ASSEMBLY, COMPOSITE | 4        | Prop    |  |
| BLADE                       | JNC10904B   | PCP:BLADE ASSEMBLY, COMPOSITE | 4        | Prop    |  |
| SPINNER                     | 106500      | SPINNER ASSEMBLY              | 1        | A/C     |  |
| SPINNER                     | 106500P     | SPINNER ASSEMBLY              | 1        | A/C     |  |
| SPIN MTG KIT                | 106501-2    | SPACER, ALUMINUM              | 8        | Prop    |  |
| SPIN MTG KIT                | B-3384-8H   | BOLT, 1/4-28, HEX HEAD        | 8        | Prop    |  |
| SPIN MTG KIT                | B-3851-0432 | WASHER                        | 8        | Prop    |  |
| SP MT KIT DE-ICE            | 106501-2    | SPACER, ALUMINUM              | 8        | Prop    |  |
| SP MT KIT DE-ICE            | A-2070-11   | SCREW, 1/4-28, BUTTON HEAD    | 8        | Prop    |  |
| COUNTERWEIGHT               | 106522-1    | PCP: SLUG, COUNTERWEIGHT      | 1        | Blade   |  |
| COUNTERWEIGHT               | 106611      | PCP:COUNTERWEIGHT             | 1        | Blade   |  |
| COUNTERWEIGHT SLUG A-1712   |             | BOLT,3/8-24,HEX HEAD          | 2        | Blade   |  |
| COUNTERWEIGHT SLUG A-1713   |             | PCP: SLUG, COUNTERWEIGHT      | 4        | Blade   |  |
| COUNTERWEIGHT SLUG A-2043-1 |             | NUT,3/8-24,HEX,SELF-LOCKING   | 2        | Blade   |  |
| DE-ICER                     | 106562      | DE-ICE BOOT                   | 1        | Blade   |  |
| DE-ICE KIT PR               | 106783      | DE-ICE KIT (ONE PROP)         | 1        | Prop    |  |
| DE-ICE KIT A/F              | 106612      | AIRFRAME DE-ICE KIT           | 1        | A/C     |  |
| MTG BOLT/STUD               | C-6006      | NUT,MOUNTING,9/16-18,12 POINT | 8        | Prop    |  |
| MISC ACCES                  | 3H1150-10   | TIMER DE-ICE                  | 1        | A/C     | STC'er will order as line item on PO, not in kits. |

# HARTZELL

## APPLICATION GUIDE

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CESSNA

IDS No.: 3366 Rev.: 4 IC Date: 02/13/2018

**Model:** 208, 208A, 208B  
**Trade Name:** CARAVAN  
**Aircraft T.C./STC:** STC SA02546LA  
**Propeller Model:** HC-B3TN-3AF(Y)  
**Propeller T.C.:** P15EA  
**Blade Model(s):** T10890CN-2  
 T10890CNK-2\*2  
**Prop Diameter:** 106" TO 104"

**Modifier:** Blackhawk Modifications  
**Engine Model:** PT6A-140  
**Power:** 867 HP @ 1900 RPM  
**Placard/Restr:**  
**Notes:**

**Prop Setup:**

**Ref. Radius:** 42  
**Reverse Angle:** -21.0 +/-0.5  
**Low Pitch Angle:** 8.5 +/-0.2  
**Stud Protrusion**

**Startlock Angle:** -3.2 +/-1.0  
**Feather/High Angle:** 78.4 +/-0.5  
**Cwt Angle:** Positive

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type          | Item Number   | Description                       | Quantity | Qty Per | Comments                           |
|--------------------|---------------|-----------------------------------|----------|---------|------------------------------------|
| PROPELLER          | B3N10025S     | HC-B3TN-3AFY/T10890CNK-2[*2]      | 1        | A/C     |                                    |
| PROPELLER          | B3N10025SKD   | HC-B3TN-3AFY/T10890CNK-2[*2]      | 1        | A/C     |                                    |
| PROPELLER          | B3N21060S     | HC-B3TN-3AF/T10890CN-2/D4897-P    | 1        | A/C     |                                    |
| PROPELLER          | B3N21060SKD   | HC-B3TN-3AF/T10890CN-2/D4897-P    | 1        | A/C     |                                    |
| PROPELLER          | B3N21500S     | HC-B3TN-3AFY/T10890CN-2/D4897P    | 1        | A/C     |                                    |
| PROPELLER          | B3N21500SKD   | HC-B3TN-3AFY/T10890CN-2/D4897P    | 1        | A/C     |                                    |
| PROPELLER          | B3N21600S     | HC-B3TN-3AF/T10890CNK-2[*2]       | 1        | A/C     |                                    |
| PROPELLER          | B3N21600SKD   | HC-B3TN-3AF/T10890CNK-2[*2]       | 1        | A/C     |                                    |
| BLADE              | T10890CN-2    | PCP:BLADE UNIT, ALUMINUM          | 3        | Prop    |                                    |
| BLADE              | T10890CNK-2*2 | PCP:BLADE UNIT, ALUM. 105327      | 3        | Prop    |                                    |
| SPINNER            | D-4897        | SPINNER ASSEMBLY                  | 1        | Prop    |                                    |
| SPINNER            | D-4897-P      | SPINNER ASSEMBLY                  | 1        | Prop    |                                    |
| SPIN MTG KIT       | B-3384-4H     | BOLT, 1/4-28, HEX HEAD            | 6        | Prop    |                                    |
| SPIN MTG KIT       | B-3384-5H     | BOLT, 1/4-28, HEX HEAD            | 3        | Prop    |                                    |
| SPIN MTG KIT       | B-3384-8H     | BOLT, 1/4-28, HEX HEAD            | 3        | Prop    |                                    |
| SPIN MTG KIT       | B-3808-4      | NUT,HEX,SELF-LOCKING              | 12       | Prop    |                                    |
| SPIN MTG KIT       | B-3851-0432   | WASHER                            | 24       | Prop    |                                    |
| SP MT KIT DE-ICE   | A-2070-10     | SCREW, 1/4-28, BUTTON HEAD        | 9        | Prop    | Used with start lock propeller     |
| SP MT KIT DE-ICE   | A-2070-8      | SCREW, 1/4-28, BUTTON HEAD        | 12       | Prop    | Used with non-start lock propeller |
| SP MT KIT DE-ICE   | A-2070-9      | SCREW, 1/4-28, BUTTON HEAD        | 3        | Prop    | Used with start lock propeller     |
| SP MT KIT DE-ICE   | B-3808-4      | NUT,HEX,SELF-LOCKING              | 12       | Prop    |                                    |
| SP MT KIT DE-ICE   | B-3837-0432   | WASHER, CORROSION RESISTANT       | 12       | Prop    |                                    |
| SP MT KIT DE-ICE   | B-7077-52     | BELLEVILLE SPRING WASHER          | 24       | Prop    |                                    |
| COUNTERWEIGHT SLUG | B-3386-14H    | BOLT,3/8-24,HEX HEAD              | 2        | Blade   |                                    |
| COUNTERWEIGHT SLUG | B-3663-1      | PCP:SLUG, COUNTERWEIGHT           | 1        | Blade   |                                    |
| COUNTERWEIGHT SLUG | B-3834-0632   | WASHER                            | 2        | Blade   |                                    |
| DE-ICER            | 105327        | DE-ICE BOOT                       | 1        | Blade   |                                    |
| DE-ICE KIT PR      | 104116        | DE-ICE KIT (ONE PROP)             | 1        | Prop    | Used with non-start lock propeller |
| DE-ICE KIT PR      | 105339        | DE-ICE KIT (ONE PROP)             | 1        | Prop    | Used with start lock propeller     |
| DE-ICE KIT A/F     | 104430        | AIRFRAME DE-ICE KIT               | 1        | A/C     |                                    |
| MTG BOLT/STUD      | B-3339        | BOLT, MOUNTING, 9/16-18, 12 POINT | 8        | Prop    |                                    |
| MISC ACCES         | A-3044        | BLOCK, BETA FEEDBACK- ASSEMBLY    | 1        | Prop    |                                    |



# HARTZELL

## APPLICATION GUIDE

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CESSNA

IDS No.: 3346 Rev.: 3 IC Date: 01/03/2019

**Model:** 208, 208B  
**Trade Name:** Caravan  
**Aircraft T.C./STC:** SA03393CH  
**Propeller Model:** HC-B3TN-3AF(Y)  
**Propeller T.C.:** P15EA  
**Blade Model(s):** T10890CN-2  
 T10890CNK-2\*2  
**Prop Diameter:** 106" to 104"

**Modifier:** Preferred Improvements, LLC  
**Engine Model:** PT6A-140  
**Power:** 867 HP @ 1900 RPM  
**Placard/Restr:**  
**Notes:**

**Prop Setup:**

**Ref. Radius:** 42"  
**Reverse Angle:** -21.0 +/- 0.5  
**Low Pitch Angle:** 8.5 +/- 0.2  
**Stud Protrusion**

**Startlock Angle:** -  
**Feather/High Angle:** 78.4 +/- 0.5  
**Cwt Angle:** Positive

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type                      | Item Number   | Description                       | Quantity | Qty Per | Comments                                    |
|--------------------------------|---------------|-----------------------------------|----------|---------|---|
| PROPELLER                      | B3N21050S     | HC-B3TN-3AF/T10890CN-2/D4897-P    | 1        | A/C     |   |
| PROPELLER                      | B3N21085S     | HC-B3TN-3AF/T10890CNK-2[*2]       | 1        | A/C     |   |
| PROPELLER                      | B3N21400S     | HC-B3TN-3AFY/T10890CNK-2[*2]      | 1        | A/C     |   |
| PROPELLER                      | B3N21450S     | HC-B3TN-3AFY/T10890CN-2/SPIN      | 1        | A/C     |   |
| BLADE                          | T10890CN-2    | PCP:BLADE UNIT, ALUMINUM          | 3        | Prop    |   |
| BLADE                          | T10890CNK-2*2 | PCP:BLADE UNIT, ALUM. 105327      | 3        | Prop    | Replaces T10890CNK-2*1 on this installation |
| SPINNER                        | D-4897        | SPINNER ASSEMBLY                  | 1        | Prop    |   |
| SPINNER                        | D-4897-P      | SPINNER ASSEMBLY                  | 1        | Prop    |   |
| SPIN MTG KIT                   | B-3384-4H     | BOLT, 1/4-28, HEX HEAD            | 12       | Prop    |   |
| SPIN MTG KIT                   | B-3808-4      | NUT,HEX,SELF-LOCKING              | 12       | Prop    |   |
| SPIN MTG KIT                   | B-3851-0432   | WASHER                            | 24       | Prop    |   |
| SP MT KIT DE-ICE               | A-2070-7      | SCREW, 1/4-28, BUTTON HEAD        | 12       | Prop    |   |
| SP MT KIT DE-ICE               | B-3808-4      | NUT,HEX,SELF-LOCKING              | 12       | Prop    |   |
| SP MT KIT DE-ICE               | B-7077-52     | BELLEVILLE SPRING WASHER          | 24       | Prop    |   |
| COUNTERWEIGHT SLUG A-890-6     |               | PCP:SLUG, COUNTERWEIGHT           | 1        | Blade   |   |
| COUNTERWEIGHT SLUG B-3384-13H  |               | BOLT, 1/4-28, HEX HEAD            | 2        | Blade   |   |
| COUNTERWEIGHT SLUG B-3386-14H  |               | BOLT,3/8-24,HEX HEAD              | 2        | Blade   |   |
| COUNTERWEIGHT SLUG B-3834-0632 |               | WASHER                            | 2        | Blade   |   |
| COUNTERWEIGHT SLUG C-6081      |               | PCP:SLUG, COUNTERWEIGHT           | 1        | Blade   |   |
| DE-ICER                        | 104294        | DE-ICE BOOT                       | 1        | Blade   | Replaced by 105627 on this installation     |
| DE-ICER                        | 105327        | DE-ICE BOOT                       | 1        | Blade   | Replaces 104294 on this installation        |
| DE-ICE KIT PR                  | 104116        | DE-ICE KIT (ONE PROP)             | 1        | Prop    | For non-start lock propellers               |
| DE-ICE KIT PR                  | 105339        | DE-ICE KIT (ONE PROP)             | 1        | Prop    | For start lock propellers                   |
| DE-ICE KIT A/F                 | 104430        | AIRFRAME DE-ICE KIT               | 1        | A/C     |   |
| MTG BOLT/STUD                  | B-3339        | BOLT, MOUNTING, 9/16-18, 12 POINT | 8        | Prop    |   |
| MISC ACCES                     | A-3044        | BLOCK, BETA FEEDBACK- ASSEMBLY    | 1        | Prop    |   |

# HARTZELL

## APPLICATION GUIDE 159

**CESSNA**

**IDS No.:** 3364      **Rev.:** 5      **IC Date:** 04/18/2022

**Model:** 208, 208B  
**Trade Name:** Caravan  
**Aircraft T.C./STC:** STC SA02181AK  
**Propeller Model:** HC-B3TN-3AF(Y)  
**Propeller T.C.:** P15EA  
**Blade Model(s):** T10890CNB-2  
 T10890CNB-2\*1  
**Prop Diameter:** 106" to 104"

**Modifier:** Hartzell  
**Engine Model:** PT6A-114(A)  
**Power:** 675 HP @ 1900 RPM  
**Placard/Restr:** None.  
**Notes:**

**Prop Setup:**

**Ref. Radius:** 42  
**Reverse Angle:** -21.0+/- 0.5  
**Low Pitch Angle:** 8.0 +/- 0.2  
**Stud Protrusion**

**Startlock Angle:** -3.2 +/- 1.0  
**Feather/High Angle:** 79.0 +/- 1.0  
**Cwt Angle:** Positive

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type          | Item Number   | Description                       | Quantity | Qty Per | Comments                              |
|--------------------|---------------|-----------------------------------|----------|---------|---------------------------------------|
| PROPELLER          | B3N21700      | HC-B3TN-3AF/T10890CNB-2           | 1        | A/C     |                                       |
| PROPELLER          | B3N21700S     | HC-B3TN-3AF/T10890CNB-2/SPIN      | 1        | A/C     |                                       |
| PROPELLER          | B3N21700SKD   | HC-B3TN-3AF/T10890CNB-2/SPIN      | 1        | A/C     |                                       |
| PROPELLER          | B3N21703S     | HC-B3TN-3AF/T10890CNB-2*1/SPIN    | 1        | A/C     |                                       |
| PROPELLER          | B3N21703SKD   | HC-B3TN-3AF/T10890CNB-2*1/SPIN    | 1        | A/C     |                                       |
| PROPELLER          | B3N21750S     | HC-B3TN-3AFY/T10890CNB-2/SPIN     | 1        | A/C     |                                       |
| BLADE              | T10890CNB-2   | PCP:BLADE UNIT, ALUMINUM          | 3        | Prop    |                                       |
| BLADE              | T10890CNB-2*1 | PCP:BLADE UNIT, ALUMINUM          | 3        | Prop    |                                       |
| SPINNER            | D-4897-2      | SPINNER ASSEMBLY                  | 1        | Prop    |                                       |
| SPINNER            | D-4897-2P     | SPINNER ASSEMBLY                  | 1        | Prop    |                                       |
| SPIN MTG KIT       | B-3384-4H     | BOLT, 1/4-28, HEX HEAD            | 12       | Prop    | Qty. 6 for props w/ start locks       |
| SPIN MTG KIT       | B-3384-5H     | BOLT, 1/4-28, HEX HEAD            | 3        | Prop    | For Props w/ start locks only         |
| SPIN MTG KIT       | B-3384-8H     | BOLT, 1/4-28, HEX HEAD            | 3        | Prop    | For Props w/ start locks only         |
| SPIN MTG KIT       | B-3808-4      | NUT,HEX,SELF-LOCKING              | 12       | Prop    | For Props w/ start locks only         |
| SPIN MTG KIT       | B-3851-0432   | WASHER                            | 24       | Prop    | Qty. 12 for props w/o start locks     |
| COUNTERWEIGHT SLUG | A-890-6       | PCP:SLUG, COUNTERWEIGHT           | 1        | Blade   |                                       |
| COUNTERWEIGHT SLUG | B-3384-13H    | BOLT, 1/4-28, HEX HEAD            | 2        | Blade   |                                       |
| COUNTERWEIGHT SLUG | B-3386-14H    | BOLT,3/8-24,HEX HEAD              | 2        | Blade   |                                       |
| COUNTERWEIGHT SLUG | B-3834-0632   | WASHER                            | 2        | Blade   |                                       |
| COUNTERWEIGHT SLUG | C-6081        | PCP:SLUG, COUNTERWEIGHT           | 1        | Blade   |                                       |
| DE-ICER            | C-2131-13     | BOOT, ANTI-ICING                  | 1        | Blade   |                                       |
| DE-ICE KIT PR      | 105014        | ANTI-ICE KIT (ONE PROP)           | 1        | Prop    |                                       |
| MTG BOLT/STUD      | A-2048-2      | WASHER, MOUNTING, 9/16 " CSK      | 8        | Prop    | Mounting washer, included in prop BOM |
| MTG BOLT/STUD      | B-3339        | BOLT, MOUNTING, 9/16-18, 12 POINT | 8        | Prop    |                                       |
| MISC ACCES         | A-3044        | BLOCK, BETA FEEDBACK- ASSEMBLY    | 1        | Prop    |                                       |
| OVERHAUL KIT       | 105014-OH     | ANTI-ICE O/H KIT (ONE PROP)       | 1        | Prop    |                                       |

# HARTZELL

## APPLICATION GUIDE

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CESSNA

IDS No.: 3728 Rev.: 2 IC Date: 08/31/2022

**Model:** 208B  
**Trade Name:** SuperVan 900  
**Aircraft T.C./STC:** SA10841SC  
**Propeller Model:** HC-E4N-5KCL  
**Propeller T.C.:** P10NE

**Modifier:** Texas Turbines  
**Engine Model:** TPE331-12JR-(703,704,706)TT  
**Power:** 950 HP @ 1591 RPM  
**Placard/Restr:** Stabilized ground operation is prohibited below 1025 (64%) rpm.

**Blade Model(s):** JE10991  
 JE10991B  
**Prop Diameter:** 109.5 to 107.5"

**Notes:** TPE331-12JR-(703,706)TT are 950 SHP installations whereas, TPE331-12JR-704TT is 900 SHP.

### Prop Setup:

**Ref. Radius:** 42  
**Reverse Angle:** -11.5 +/-0.5  
**Low Pitch Angle:** N/A

**Startlock Angle:** -2.0 +/-0.5

**Feather/High Angle:** 81.2 +/-0.5

**Cwt Angle:**

**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| Item Type                   | Item Number | Description                   | Quantity | Qty Per | Comments                             |
|-----------------------------|-------------|-------------------------------|----------|---------|--------------------------------------|
| PROPELLER                   | E4N12255S   | HC-E4N-5KCL/JE10991B/SPIN     | 1        | A/C     |                                      |
| PROPELLER                   | E4N12255SKD | HC-E4N-5KCL/JE10991B/SPIN     | 1        | A/C     |                                      |
| PROPELLER                   | E4N12258S   | HC-E4N-5KCL/JE10991/SPIN      | 1        | A/C     |                                      |
| PROPELLER                   | E4N12258SKD | HC-E4N-5KCL/JE10991/SPIN      | 1        | A/C     |                                      |
| BLADE                       | JE10991     | PCP: BLADE UNIT, ALUMINUM     | 4        | Prop    |                                      |
| BLADE                       | JE10991B    | PCP: BLADE UNIT, ALUMINUM     | 4        | Prop    |                                      |
| SPINNER                     | 106500-1    | SPINNER ASSEMBLY              | 1        | Prop    |                                      |
| SPINNER                     | 106500-1P   | SPINNER ASSEMBLY              | 1        | Prop    |                                      |
| SPIN MTG KIT                | 106501-2    | SPACER, ALUMINUM              | 8        | Prop    | For all props (de-ice and non de-ce) |
| SPIN MTG KIT                | B-3384-8H   | BOLT, 1/4-28, HEX HEAD        | 8        | Prop    |                                      |
| SPIN MTG KIT                | B-3851-0432 | WASHER                        | 8        | Prop    |                                      |
| SP MT KIT DE-ICE            | A-2070-11   | SCREW, 1/4-28, BUTTON HEAD    | 8        | Prop    |                                      |
| COUNTERWEIGHT               | C-472-21    | PCP:COUNTERWEIGHT             | 1        | Blade   |                                      |
| COUNTERWEIGHT SLUG A-1712   |             | BOLT,3/8-24,HEX HEAD          | 1        | Blade   |                                      |
| COUNTERWEIGHT SLUG A-1713   |             | PCP: SLUG, COUNTERWEIGHT      | 8        | Blade   |                                      |
| COUNTERWEIGHT SLUG A-2043-1 |             | NUT,3/8-24,HEX,SELF-LOCKING   | 1        | Blade   |                                      |
| DE-ICER                     | 107253      | DE-ICE BOOT                   | 1        | Blade   |                                      |
| DE-ICE KIT PR               | 108004      | DE-ICE KIT (ONE PROP)         | 1        | Prop    |                                      |
| DE-ICE KIT A/F              | 108005      | AIRFRAME DE-ICE KIT           | 1        | A/C     |                                      |
| MTG BOLT/STUD               | C-6006      | NUT,MOUNTING,9/16-18,12 POINT | 8        | Prop    |                                      |

# HARTZELL

## APPLICATION GUIDE

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CESSNA

**Model:** 210 (K-N)  
**Trade Name:**  
**Aircraft T.C./STC:** SA00274AT  
**Propeller Model:** PHC-J3YF-1RF  
**Propeller T.C.:** P36EA  
**Blade Model(s):** F8068  
**Prop Diameter:** 82" - 78"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** 13.0 +-0.2  
**Stud Protrusion:** 1.450 +-0.030

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 2520      **Rev.:** 3      **IC Date:** 03/28/2017

**Modifier:** JOHN JEWELL AIRCRAFT

**Engine Model:** IO-550-L

**Power:** 300 HP @ 2700 RPM

**Placard/Restr:** None.

**Notes:**

**Startlock Angle:**

**Feather/High Angle:** 32.0 +-1.0

**Cwt Angle:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>           | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|------------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | J3F10692           | PHC-J3YF-1RF/F8068/SM9       | 1               | A/C            |                          |
| BLADE            | F8068              | PCP:BLADE UNIT, ALUM [1,1,5] | 3               | Prop           |                          |
| SPINNER          | C-4582-P           | SPINNER ASSEMBLY             | 1               | A/C            |                          |
| SPINNER          | D-5732-P           | SPINNER ASSEMBLY             | 1               | A/C            |                          |
| SPIN MTG KIT     | A-2476-9           | SPINNER - MTG KIT            | 1               | Prop           |                          |
| MTG BOLT/STUD    | A-2429-4           | STUD, MOUNTING, 1/2-20       | 6               | Prop           |                          |
| OVERHAUL KIT     | PHC-J3YF-1RF-OH    | O/H KIT                      | 1               | Prop           | For aftermarket use only |

# HARTZELL

## APPLICATION GUIDE

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Cessna

IDS No.: 3706 Rev.: 4 IC Date: 10/06/2020

**Model:** A185(E,F)  
**Trade Name:** Skywagon  
**Aircraft T.C./STC:** SA04404CH  
**Propeller Model:** HC-C3YF-1RF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** F8429  
 F8429\*2  
**Prop Diameter:** 86" to 84"

**Modifier:** Hartzell Propeller  
**Engine Model:** IO-520-D  
**Power:** 300 HP @ 2850 RPM  
**Placard/Restr:**  
**Notes:**

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** 10.1 +- 0.2  
**Stud Protrusion:** 1.210 +/- .015

**Startlock Angle:**  
**Feather/High Angle:** 29.0 +- 1.0  
**Cwt Angle:**

### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| Item Type     | Item Number | Description                     | Quantity | Qty Per | Comments |
|---------------|-------------|---------------------------------|----------|---------|----------|
| PROPELLER     | C3F04930    | HC-C3YF-1RF/F8429/SM30          | 1        | A/C     |          |
| PROPELLER     | C3F04930KD  | HC-C3YF-1RF/F8429/SM30          | 1        | A/C     |          |
| PROPELLER     | C3F04932    | HC-C3YF-1RF/F8429*2/SM30        | 1        | A/C     |          |
| PROPELLER     | C3F04932KD  | HC-C3YF-1RF/F8429*2/SM30        | 1        | A/C     |          |
| BLADE         | F8429       | PCP: BLADE UNIT, ALUM [6,16,11] | 3        | Prop    |          |
| BLADE         | F8429*2     | PCP: BLADE UNIT, ALUM [3,1,11]  | 3        | Prop    |          |
| SPINNER       | C-3575      | SPINNER ASSEMBLY                | 1        | Prop    |          |
| SPINNER       | C-3575-P    | SPINNER ASSEMBLY                | 1        | Prop    |          |
| SPIN MTG KIT  | A-2476-30   | SPINNER - MTG KIT               | 1        | Prop    |          |
| MTG BOLT/STUD | A-2429-5    | STUD, MOUNTING, 1/2-20          | 6        | Prop    |          |

# HARTZELL

## APPLICATION GUIDE 159

CESSNA

IDS No.: 2753 Rev.: 2 IC Date: 07/16/2015

**Model:** A185E, A185F  
**Trade Name:** SKYWAGON  
**Aircraft T.C./STC:** SA02528CH-D  
**Propeller Model:** HC-C3YF-1RF  
**Propeller T.C.:** P25EA

**Modifier:** HARTZELL PROPELLER  
**Engine Model:** IO-520-D  
**Power:** 285 HP @ 2700 RPM  
**Placard/Restr:** Max RPM stop on propeller governor must be set at 2700 RPM. For propellers with 86"-85" diameters - Continuous operation is prohibited above 26" manifold pressure between 2250-2450 RPM.

**Blade Model(s):** F8468A-2R\*1  
 F8468AR\*1

**Notes:**

**Prop Diameter:** 86" - 82"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** 10.3 +-0.2  
**Stud Protrusion** 1.450 +-0.030

**Startlock Angle:**  
**Feather/High Angle:** 30.0 +-1.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type     | Item Number    | Description                    | Quantity | Qty Per | Comments                 |
|---------------|----------------|--------------------------------|----------|---------|--------------------------|
| PROPELLER     | C3F00045       | HC-C3YF-1RF/F8468AR[*1]/SM30   | 0        |         |                          |
| PROPELLER     | C3F00045KD     | HC-C3YF-1RF/F8468AR[*1]/SM30   | 0        |         |                          |
| PROPELLER     | C3F00047       | HC-C3YF-1RF/F8468A-2R[*1]/SM30 | 0        |         |                          |
| PROPELLER     | C3F00047KD     | HC-C3YF-1RF/F8468A-2R[*1]/SM30 | 0        |         |                          |
| BLADE         | F8468A-2R*1    | PCP:BLADE UNIT, ALUM [6,1,1]   | 3        | Prop    |                          |
| BLADE         | F8468AR*1      | PCP:BLADE UNIT, ALUM [3,1,1]   | 3        | Prop    |                          |
| SPINNER       | C-3575         | SPINNER ASSEMBLY               | 1        | A/C     |                          |
| SPINNER       | C-3575-P       | SPINNER ASSEMBLY               | 1        | A/C     |                          |
| SPIN MTG KIT  | A-2476-30      | SPINNER - MTG KIT              | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2429-4       | STUD, MOUNTING, 1/2-20         | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-C3YF-1RF-OH | O/H KIT                        | 1        | Prop    | For aftermarket use only |

# HARTZELL

## APPLICATION GUIDE

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CESSNA

IDS No.: 2696 Rev.: 2 IC Date: 07/16/2015

Model: A185E, A185F  
 Trade Name:  
 Aircraft T.C./STC: SA10070SC  
 Propeller Model: PHC-C3YF-1RF  
 Propeller T.C.: P25EA  
 Blade Model(s): F8068-2  
 Prop Diameter: 80

Modifier: TEXAS SKYWAYS  
 Engine Model: IO-520-F  
 Power: 300 HP @ 2850 RPM  
 Placard/Restr:  
 Notes:

### Prop Setup:

Ref. Radius: 30  
 Reverse Angle:  
 Low Pitch Angle: 11.8 +-0.2  
 Stud Protrusion 1.450 +-0.030

Startlock Angle:  
 Feather/High Angle: 32.0 +-1.0  
 Cwt Angle:

### Non-HPI Items:

Non-HPI Spinner:

Non-HPI Governor:

### Hartzell Approved Items:

| Item Type     | Item Number     | Description                  | Quantity | Qty Per | Comments                                   |
|---------------|-----------------|------------------------------|----------|---------|--|
| PROPELLER     | C3F00018        | PHC-C3YF-1RF/F8068-2/SM7     | 1        | A/C     |  |
| PROPELLER     | C3F00018KD      | PHC-C3YF-1RF/F8068-2/SM7     | 1        | A/C     |  |
| BLADE         | F8068-2         | PCP:BLADE UNIT, ALUM [1,1,5] | 3        | Prop    |  |
| SPINNER       | C-3535-1        | SPINNER ASSEMBLY             | 1        | A/C     |  |
| SPINNER       | C-3535-1P       | SPINNER ASSEMBLY             | 1        | A/C     |  |
| GOVERNOR      | S-1-28          | GOVERNOR ASSEMBLY, S-1-28    | 1        | A/C     |  |
| SPIN MTG KIT  | A-2476-7        | SPINNER - MTG KIT            | 1        | Prop    |  |
| MTG BOLT/STUD | A-2429-4        | STUD, MOUNTING, 1/2-20       | 6        | Prop    | USE WITH E-7154-2R HUB ONLY                |
| MTG BOLT/STUD | A-2429-7        | STUD, MOUNTING, 1/2-20       | 6        | Prop    | Use with E-7154-12R & E-7154-42R hubs only |
| OVERHAUL KIT  | PHC-C3YF-1RF*1  | O/H KIT W/O SLIMSERTS        | 1        | Prop    | For aftermarket use only                   |
| OVERHAUL KIT  | PHC-C3YF-1RF-OH | O/H KIT                      | 1        | Prop    | For aftermarket use only                   |

# HARTZELL

## APPLICATION GUIDE

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Cessna

IDS No.: 3181      Rev.: 2      IC      Date: 05/27/2020

**Model:** A188, A188A, A188B  
**Trade Name:** Ag Wagon  
**Aircraft T.C./STC:** SA00470AT  
**Propeller Model:** HC-C3YF-1RF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** F8468A-6R  
**Prop Diameter:** 80.0" TO 77.0"

**Modifier:** Hartzell Propeller, Inc.  
**Engine Model:** IO-520-D  
**Power:** 300 HP @ 2850 RPM  
**Placard/Restr:**  
**Notes:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** 10.4 +-0.2  
**Stud Protrusion** 1.450 +-0.030

**Startlock Angle:**  
**Feather/High Angle:** 31.0 +-1.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>           | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|------------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | C3F08300           | HC-C3YF-1RF/F8468A-6R/SM6    | 1               | A/C            |                          |
| PROPELLER        | C3F08300KD         | HC-C3YF-1RF/F8468A-6R/SM6    | 1               | A/C            |                          |
| BLADE            | F8468A-6R          | PCP:BLADE UNIT, ALUM [1,1,1] | 3               | Prop           |                          |
| SPINNER          | C-3535-1P          | SPINNER ASSEMBLY             | 1               | Prop           |                          |
| SPIN MTG KIT     | A-2476-6           | SPINNER - MTG KIT            | 1               | Prop           |                          |
| MTG BOLT/STUD    | A-2429-4           | STUD, MOUNTING, 1/2-20       | 6               | Prop           |                          |
| OVERHAUL KIT     | HC-C3YF-1RF-OH     | O/H KIT                      | 1               | Prop           | For aftermarket use only |



# HARTZELL

## APPLICATION GUIDE

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CESSNA

IDS No.: 3651 Rev.: 4 IC Date: 05/28/2019

Model: C206  
 Trade Name: STATIONAIR  
 Aircraft T.C./STC: SA04034CH  
 Propeller Model: HC-B3TN-3NY  
 Propeller T.C.: P15EA  
 Blade Model(s): T9212N-6  
 Prop Diameter: 86"

Modifier: TURBINE CONVERSIONS  
 Engine Model: PT6A  
 Power: 350 HP @ 2200 RPM  
 Placard/Restr:  
 Notes:

**Prop Setup:**

Ref. Radius: 30  
 Reverse Angle: -14.0° ± 0.5°  
 Low Pitch Angle: 17.2° ± 0.2°

Startlock Angle: -1.4° ± 0.1°  
 Feather/High Angle: 84.7° ± 1.0°  
 Cwt Angle: POSITIVE

Stud Protrusion

**Non-HPI Items:**

Non-HPI Spinner:

Non-HPI Governor:

**Hartzell Approved Items:**

| Item Type                     | Item Number | Description                       | Quantity | Qty Per | Comments |
|-------------------------------|-------------|-----------------------------------|----------|---------|----------|
| PROPELLER                     | B3N10696S   | HC-B3TN-3NY/T9212N-6/SPIN         | 1        | A/C     |          |
| PROPELLER                     | B3N10696SKD | HC-B3TN-3NY/T9212N-6/SPIN         | 1        | A/C     |          |
| BLADE                         | T9212N-6    | PCP:BLADE UNIT, ALUMINUM          | 3        | Prop    |          |
| SPINNER                       | C-3065-P    | SPINNER ASSEMBLY                  | 1        | Prop    |          |
| SPIN MTG KIT                  | B-3384-4H   | BOLT, 1/4-28, HEX HEAD            | 12       | Prop    |          |
| SPIN MTG KIT                  | B-3808-4    | NUT,HEX,SELF-LOCKING              | 12       | Prop    |          |
| SPIN MTG KIT                  | B-3851-0432 | WASHER                            | 24       | Prop    |          |
| COUNTERWEIGHT SLUG A-3039     |             | SLUG, COUNTERWEIGHT               | 1        | Blade   |          |
| COUNTERWEIGHT SLUG A-890      |             | PCP:SLUG, COUNTERWEIGHT           | 1        | Blade   |          |
| COUNTERWEIGHT SLUG B-3384-15H |             | BOLT, 1/4-28, HEX HEAD            | 2        | Blade   |          |
| MTG BOLT/STUD                 | B-3339      | BOLT, MOUNTING, 9/16-18, 12 POINT | 8        | Prop    |          |

# HARTZELL

## APPLICATION GUIDE

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**Cessna**

**Model:** Cessna 177RG  
**Trade Name:** Cardinal RG  
**Aircraft T.C./STC:** SA09871AC  
**Propeller Model:** HC-C2YR-1N  
**Propeller T.C.:** P-920  
**Blade Model(s):** NG8301-5  
**Prop Diameter:** 78"

**Prop Setup:**

**Ref. Radius:** 30"  
**Reverse Angle:**  
**Low Pitch Angle:** 10.7 +/- .2 degrees  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**IDS No.:** 3404      **Rev.:** 2      **IC Date:** 05/26/2017

**Modifier:** Tornado Alley Turbo  
**Engine Model:** O-360-A1B6(D)  
**Power:** 180 HP @ 2700 RPM  
**Placard/Restr:** None.

**Notes:**

**Startlock Angle:**  
**Feather/High Angle:** 30.0 +/- 1.0  
**Cwt Angle:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type     | Item Number | Description                 | Quantity | Qty Per | Comments                        |
|---------------|-------------|-----------------------------|----------|---------|---------------------------------|
| PROPELLER     | C2R40300    | HC-C2YR-1N/NG8301-5/SM19    | 1        | A/C     |                                 |
| PROPELLER     | C2R40310    | HC-C2YR-1N/NG8301-5/SM63    | 1        | A/C     |                                 |
| BLADE         | NG8301-5    | PCP:BLADE ASSY, COMPOSITE   | 2        | Prop    |                                 |
| SPINNER       | 106848      | SPINNER ASSEMBLY, COMPOSITE | 1        | A/C     | To be used with SMK A-2476-63   |
| SPINNER       | 106848F1    | SPINNER ASSEMBLY, COMPOSITE | 1        | A/C     | To be used with SMK A-2476-63   |
| SPINNER       | 106848F2    | SPINNER ASSEMBLY, COMPOSITE | 1        | A/C     | To be used with SMK A-2476-63   |
| SPINNER       | A-2295-P    | SPINNER ASSEMBLY            | 1        | A/C     | To be used with SMK A-2476-19   |
| SPIN MTG KIT  | A-2476-19   | SPINNER - MTG KIT           | 1        | Prop    | For use with A-2295-P spinner.  |
| SPIN MTG KIT  | A-2476-63   | SPINNER - MTG KIT           | 1        | Prop    | For use with 106848( ) spinner. |
| MTG BOLT/STUD | A-2067      | STUD, MOUNTING, 1/2-20      | 6        | Prop    |                                 |

**CESSNA**

**Model:** T206H  
**Trade Name:** Turbo Stationaire  
**Aircraft T.C./STC:** SA04053CH  
**Propeller Model:** HC-F3YR-1AN  
**Propeller T.C.:** P31EA  
**Blade Model(s):** NG8301-1  
**Prop Diameter:** 84"

**Prop Setup:**

**Ref. Radius:** 30"  
**Reverse Angle:**  
**Low Pitch Angle:** 13.0+/-0.2  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**IDS No.:** 3388      **Rev.:** 3      **IC Date:** 08/05/2016

**Modifier:** Wipair Inc.  
**Engine Model:** TIO-540-AJ1A  
**Power:** 310 HP @ 2500 RPM  
**Placard/Restr:**

**Notes:**

**Startlock Angle:**  
**Feather/High Angle:** 30.0 +/- 1.0  
**Cwt Angle:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type     | Item Number | Description               | Quantity | Qty Per | Comments |
|---------------|-------------|---------------------------|----------|---------|----------|
| PROPELLER     | F3R20700    | HC-F3YR-1AN/NG8301-1/SM23 | 1        | A/C     |          |
| PROPELLER     | F3R20700KD  | HC-F3YR-1AN/NG8301-1/SM23 | 1        | A/C     |          |
| BLADE         | NG8301-1    | PCP:BLADE ASSY, COMPOSITE | 3        | Prop    |          |
| SPINNER       | D-4578-1    | SPINNER ASSEMBLY          | 1        | Prop    |          |
| SPINNER       | D-4578-1P   | SPINNER ASSEMBLY          | 1        | Prop    |          |
| SPIN MTG KIT  | A-2476-23   | SPINNER - MTG KIT         | 1        | Prop    |          |
| MTG BOLT/STUD | A-2067      | STUD, MOUNTING, 1/2-20    | 6        | Prop    |          |

# HARTZELL

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CESSNA

**Model:** T210(K-N)  
**Trade Name:** CENTURION  
**Aircraft T.C./STC:** SA03141AT  
**Propeller Model:** PHC-J3YF-1RF  
**Propeller T.C.:** P36EA  
**Blade Model(s):** F7691  
**Prop Diameter:** 78.0" TO 77.0"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.4 +-0.1  
**Stud Protrusion** 1.450 +-0.030

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number     | Description                  | Quantity | Qty Per | Comments                 |
|---------------|-----------------|------------------------------|----------|---------|--------------------------|
| PROPELLER     | J3F00022        | PHC-J3YF-1RF/F7691/SM7       | 1        | A/C     |                          |
| BLADE         | F7691           | PCP:BLADE UNIT, ALUM [1,1,5] | 3        | Prop    |                          |
| SPINNER       | C-4582-P        | SPINNER ASSEMBLY             | 1        | Prop    |                          |
| SPIN MTG KIT  | A-2476-7        | SPINNER - MTG KIT            | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2429-4        | STUD, MOUNTING, 1/2-20       | 6        | Prop    |                          |
| OVERHAUL KIT  | PHC-J3YF-1RF-OH | O/H KIT                      | 1        | Prop    | For aftermarket use only |

**IDS No.:** 3526      **Rev.:** 3      **IC**      **Date:** 03/27/2018

**Modifier:** JOHN JEWELL AIRCRAFT, INC.  
**Engine Model:** IO-550-L  
**Power:** 300 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 31.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

CESSNA

**Model:** T210(K-N)  
**Trade Name:**  
**Aircraft T.C./STC:** SA03141AT  
**Propeller Model:** PHC-J3YF-1RF  
**Propeller T.C.:** P36EA  
**Blade Model(s):** F8068  
**Prop Diameter:** 82"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** 13.0 +-0.2  
**Stud Protrusion** 1.450 +-0.030

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number     | Description                  | Quantity | Qty Per | Comments                 |
|---------------|-----------------|------------------------------|----------|---------|--------------------------|
| PROPELLER     | J3F10692        | PHC-J3YF-1RF/F8068/SM9       | 1        | A/C     |                          |
| BLADE         | F8068           | PCP:BLADE UNIT, ALUM [1,1,5] | 3        | Prop    |                          |
| SPINNER       | C-4582-P        | SPINNER ASSEMBLY             | 1        | A/C     |                          |
| SPINNER       | D-5732-P        | SPINNER ASSEMBLY             | 1        | A/C     |                          |
| SPIN MTG KIT  | A-2476-9        | SPINNER - MTG KIT            | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2429-4        | STUD, MOUNTING, 1/2-20       | 6        | Prop    |                          |
| OVERHAUL KIT  | PHC-J3YF-1RF-OH | O/H KIT                      | 1        | Prop    | For aftermarket use only |

**IDS No.:** 3525      **Rev.:** 2      **IC**      **Date:** 03/28/2017

**Modifier:** JOHN JEWELL AIRCRAFT  
**Engine Model:** IO-550-L  
**Power:** 300 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:**  
**Feather/High Angle:** 32.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

# HARTZELL

## APPLICATION GUIDE 159

CESSNA

**Model:** T210L, T210M, TU206G  
**Trade Name:** SUPER SKYWAGON, TURBO CENTURION  
**Aircraft T.C./STC:** SA10615SC  
**Propeller Model:** PHC-J3YF-1RF  
**Propeller T.C.:** P36EA  
**Blade Model(s):** F7693F+2  
 F7693FB+2\*1  
**Prop Diameter:** 80-78

**IDS No.:** 2738      **Rev.:** 1      **IC Date:** 07/16/2015

**Modifier:** RAM AIRCRAFT CORP.  
**Engine Model:** TSIO-520-R

**Power:** 310 HP @ 2700 RPM

**Placard/Restr:**

**Notes:** De-ice installation for TU206G S/N U20602589, U20604075+. -3 de-ice kit is same as -1 with boots added for field installation. De-ice installation is for 28V aircraft with airframe de-ice components approved in Cessna parts catalog.

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** 14.0 +-0.2  
**Stud Protrusion** 1.450 +-0.030

**Startlock Angle:**  
**Feather/High Angle:** 31.0 +-1.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>             | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|--------------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | J3F09050           | PHC-J3YF-1RF/F7693F+2/SM9      | 1               | A/C            |                          |
| PROPELLER        | J3F09050KD         | PHC-J3YF-1RF/F7693F+2/SM9      | 1               | A/C            |                          |
| PROPELLER        | J3F09061           | PHC-J3YF-1RF/F7693FB+2[*1]/SM9 | 0               |                |                          |
| BLADE            | F7693F+2           | PCP:BLADE UNIT, ALUM [6,15,11] | 3               | Prop           |                          |
| BLADE            | F7693FB+2*1        | PCP:BLADE UNIT, ALUM 102352    | 3               | Prop           |                          |
| SPINNER          | C-4582-1           | SPINNER ASSEMBLY               | 1               | A/C            |                          |
| SPINNER          | C-4582-1P          | SPINNER ASSEMBLY               | 1               | A/C            |                          |
| SPIN MTG KIT     | A-2476-9           | SPINNER - MTG KIT              | 1               | Prop           |                          |
| DE-ICER          | 102352             | DE-ICE BOOT                    | 1               | Blade          |                          |
| DE-ICE KIT PR    | 102418-1           | DE-ICE KIT (ONE PROP)          | 1               | Prop           |                          |
| DE-ICE KIT PR    | 102418-3           | DE-ICE KIT (ONE PROP)          | 1               | Prop           |                          |
| MTG BOLT/STUD    | A-2429-4           | STUD, MOUNTING, 1/2-20         | 6               | Prop           |                          |
| OVERHAUL KIT     | PHC-J3YF-1RF-OH    | O/H KIT                        | 1               | Prop           | For aftermarket use only |



# HARTZELL

## APPLICATION GUIDE

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CESSNA

IDS No.: 2971 Rev.: 1 BC Date: 07/25/2014

**Model:** T210M, T210N, P210N  
**Trade Name:** Centurion, Pressurized Centurion  
**Aircraft T.C./STC:** SA02821CH  
**Propeller Model:** HC-J3YF-1RF  
**Propeller T.C.:** P36EA  
**Blade Model(s):** F7693DF+2  
 F7693DFB+2  
**Prop Diameter:** 80" - 78"

**Modifier:** Hartzell Propeller  
**Engine Model:** TSIO-520-R, TSIO-520-P, TSIO-520-AF  
**Power:** 310 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** 12.8+-0.2  
**Stud Protrusion** 1.450 +- .030

**Startlock Angle:**  
**Feather/High Angle:** 32.0 +-1.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>             | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|--------------------------------|-----------------|----------------|-----------------|
| PROPELLER        | J3F00252           | HC-J3YF-1RF/F7693DF+2[*1]/SM44 | 1               | A/C            |                 |
| PROPELLER        | J3F00252KD         | HC-J3YF-1RF/F7693DF+2[*1]/SM44 | 1               | A/C            |                 |
| PROPELLER        | J3F00453           | HC-J3YF-1RF/F7693DFB+2/SM44/DE | 1               | A/C            |                 |
| PROPELLER        | J3F00453KD         | HC-J3YF-1RF/F7693DFB+2/SM44/DE | 1               | A/C            |                 |
| BLADE            | F7693DF+2          | PCP:BLADE UNIT, ALUM [6,1,11]  | 3               | Prop           |                 |
| BLADE            | F7693DFB+2         | PCP:BLADE UNIT, ALUM [6,16,11] | 3               | Prop           |                 |
| SPINNER          | C-4582-1           | SPINNER ASSEMBLY               | 1               | Prop           |                 |
| SPINNER          | C-4582-1P          | SPINNER ASSEMBLY               | 1               | Prop           |                 |
| SPIN MTG KIT     | A-2476-44          | SPINNER - MTG KIT              | 1               | Prop           |                 |
| DE-ICER          | 102811             | DE-ICE BOOT                    | 1               | Blade          |                 |
| DE-ICE KIT PR    | 103262             | DE-ICE KIT (ONE PROP)          | 1               | Prop           |                 |
| DE-ICE KIT A/F   | 103308             | AIRFRAME DE-ICE KIT            | 1               | A/C            |                 |
| MTG BOLT/STUD    | A-2429-4           | STUD, MOUNTING, 1/2-20         | 6               | Prop           |                 |

# HARTZELL

## APPLICATION GUIDE

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CESSNA

**Model:** U206B Thru U206G s/n U20604074  
**Trade Name:** See Notes  
**Aircraft T.C./STC:** SA02735CH  
**Propeller Model:** HC-C3YF-1RF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** F8068-2\*2  
**Prop Diameter:** 80" - 78"

**IDS No.:** 2918 **Rev.:** 1 **IC Date:** 07/16/2015

**Modifier:** Vitatoe Aviation LLC  
**Engine Model:** IO-520-F  
**Power:** 300 HP @ 2850 RPM  
**Placard/Restr:**

**Notes:** Aircraft Tradename: Skywagon, Super Skywagon, Stationair, Stationair 7, Stationair 8  
 A-2295-1(P) : Eligible on stock 206B thru 206G s/n U20604974

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** 11.3 + - 0.2  
**Stud Protrusion** 1.450 + - 0.030

**Startlock Angle:**  
**Feather/High Angle:** 32.0 + - 1.0  
**Cwt Angle:**

### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>            | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|-------------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | C3F07550           | HC-C3YF-1RF/F8068-2[*2]/SM30  | 1               | A/C            |                          |
| PROPELLER        | C3F07550KD         | HC-C3YF-1RF/F8068-2[*2]/SM30  | 1               | A/C            |                          |
| BLADE            | F8068-2*2          | PCP:BLADE UNIT, ALUM [6,16,5] | 3               | Prop           |                          |
| SPINNER          | A-2295-1           | SPINNER ASSEMBLY              | 1               | Prop           | See Notes                |
| SPINNER          | A-2295-1P          | SPINNER ASSEMBLY              | 1               | Prop           | See Notes                |
| SPIN MTG KIT     | A-2476-30          | SPINNER - MTG KIT             | 1               | Prop           |                          |
| MTG BOLT/STUD    | A-2429-4           | STUD, MOUNTING, 1/2-20        | 6               | Prop           |                          |
| MTG BOLT/STUD    | A-2429-4           | STUD, MOUNTING, 1/2-20        | 6               | Prop           |                          |
| OVERHAUL KIT     | HC-C3YF-1RF-OH     | O/H KIT                       | 1               | Prop           | For aftermarket use only |

# HARTZELL

## APPLICATION GUIDE

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CESSNA

**Model:** U206B Thru U206G s/n U20604074  
**Trade Name:** See Notes  
**Aircraft T.C./STC:** SA02821CH  
**Propeller Model:** HC-C3YF-1RF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** F8068-2\*2  
**Prop Diameter:** 80" - 78"

**IDS No.:** 2991      **Rev.:** 2      **IC Date:** 07/16/2015

**Modifier:** Hartzell Propeller  
**Engine Model:** IO-520-F  
**Power:** 300 HP @ 2850 RPM  
**Placard/Restr:**

**Notes:** Aircraft Tradename: Skywagon, Super Skywagon, Stationair, Stationair 7, Stationair 8  
A-2295-1(P) : Eligible on stock 206B thru 206G s/n U20604974

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** 11.3 + - 0.2  
**Stud Protrusion** 1.450 + - 0.030

**Startlock Angle:**  
**Feather/High Angle:** 32.0 + - 1.0  
**Cwt Angle:**

### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>            | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|-------------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | C3F07550           | HC-C3YF-1RF/F8068-2[*2]/SM30  | 1               | A/C            |                          |
| PROPELLER        | C3F07550KD         | HC-C3YF-1RF/F8068-2[*2]/SM30  | 1               | A/C            |                          |
| BLADE            | F8068-2*2          | PCP:BLADE UNIT, ALUM [6,16,5] | 3               | Prop           |                          |
| SPINNER          | A-2295-1           | SPINNER ASSEMBLY              | 1               | Prop           | See Notes                |
| SPINNER          | A-2295-1P          | SPINNER ASSEMBLY              | 1               | Prop           | See Notes                |
| SPIN MTG KIT     | A-2476-30          | SPINNER - MTG KIT             | 1               | Prop           |                          |
| MTG BOLT/STUD    | A-2429-4           | STUD, MOUNTING, 1/2-20        | 6               | Prop           |                          |
| OVERHAUL KIT     | HC-C3YF-1RF-OH     | O/H KIT                       | 1               | Prop           | For aftermarket use only |



# HARTZELL

## APPLICATION GUIDE

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Cessna

IDS No.: 3744 Rev.: 2 IC Date: 07/29/2021

**Model:** U206G (S/N 4075+), P206, P206A(J-hub), P206(B-E), (TP206A(J-hub), TP206(B-E), TU206F(S/N 2200+) & TU206G as mod by SA01300AT or SA02507AT-D)

**Modifier:** Hartzell Propeller Inc.

**Trade Name:** Stationair

**Engine Model:** IO-520-F, IO-520-F-CF, IO-550-F, IO-550-N

**Aircraft T.C./STC:** SA04491CH

**Power:** 310 HP @ 2850 RPM

**Propeller Model:** HC-J3YF-1RF

**Placard/Restr:**

**Propeller T.C.:** P36EA

**Notes:** 86" Diameter approved on floatplanes only. 82" diameter only approved on aircraft with engine STCs having 2700 max RPM. Repair up to 2" diameter reduction.

**Blade Model(s):** F8429

F8429-4

**Prop Diameter:** 86" floatplanes only, 82" at 2700 RPM max

**Prop Setup:**

**Ref. Radius:** 30

**Startlock Angle:** NA

**Reverse Angle:** NA

**Feather/High Angle:** 29.0 +/- 1.0

**Low Pitch Angle:** See Comments/BOM Notes

**Cwt Angle:**

**Stud Protrusion** 1.325 +/- .015

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type     | Item Number | Description                     | Quantity | Qty Per | Comments   |
|---------------|-------------|---------------------------------|----------|---------|--|
| PROPELLER     | J3F00610    | HC-J3YF-1RF/F8429/SM44          | 1        | A/C     | LP 11.5 +/- 0.2 (Floatplane all models w/ either STC SA10010SC, SA00332AT, SA1482GL, SA02507AT-D, SA02768CH using IO-550-F-CF, SA2830SO, or SA01300AT) |
| PROPELLER     | J3F00615    | HC-J3YF-1RF/F8429/SM44          | 1        | A/C     | LP 10.1 +/- 0.2 (Floatplane U206G with IO-520-F)   |
| PROPELLER     | J3F00620    | HC-J3YF-1RF/F8429-4/SM44        | 1        | A/C     | LP 12.0 +/- 0.2 (Landplane all models using STC SA10010SC, SA00332AT, SA1482GL, SA02507AT-D, SA4728NM, SA2830SO, or SA01300AT)                         |
| PROPELLER     | J3F00630    | HC-J3YF-1RF/F8429-4/SM44        | 1        | A/C     | LP 10.6 +/- 0.2 (Landplane, all models with IO-520-F except U206G with IO-520-F and TU206G and with STC SA02768CH using IO-520-F-CF)                   |
| PROPELLER     | J3F00635    | HC-J3YF-1RF/F8429/SM44          | 1        | A/C     | LP 11.2 +/- 0.2 (Floatplane all models with IO-520-A 285 @ 2700)   |
| PROPELLER     | J3F00640    | HC-J3YF-1RF/F8429-4/SM44        | 1        | A/C     | LP 11.7 +/- 0.2 (Landplane all models with IO-520-A 285 @ 2700)  |
| BLADE         | F8429       | PCP: BLADE UNIT, ALUM [6,16,11] | 3        | Prop    |  |
| BLADE         | F8429-4     | PCP: BLADE UNIT, ALUM [6,16,11] | 3        | Prop    |  |
| SPINNER       | C-4582-1    | SPINNER ASSEMBLY                | 1        | Prop    |  |
| SPINNER       | C-4582-1P   | SPINNER ASSEMBLY                | 1        | Prop    |  |
| SPIN MTG KIT  | A-2476-44   | SPINNER - MTG KIT               | 1        | Prop    |  |
| MTG BOLT/STUD | A-2429-8    | STUD, MOUNTING, 1/2-20          | 6        | Prop    |  |

# HARTZELL

## APPLICATION GUIDE 159

**CESSNA**

**IDS No.:** 1411      **Rev.:** 3      **IC Date:** 12/10/2019

**Model:** LC42-550FG  
**Trade Name:** CESSNA 350  
**Aircraft T.C./STC:** A00003SE  
**Propeller Model:** PHC-J3YF-1RF  
**Propeller T.C.:** P36EA

**Modifier:**  
**Engine Model:** IO-550-N  
**Power:** 310 HP @ 2700 RPM  
**Placard/Restr:** Do not exceed 20 in. Manifold Pressure below 2200 RPM; Intentional spins are prohibited.

**Blade Model(s):** F7691D-1  
 F7691DK-1  
 F7691DK-1\*1  
**Prop Diameter:** 77.0" TO 76.0"

**Notes:** De-icer and restrainer straps only installed;  
 \*De-Ice drawing: Columbia LB30711000  
 14V, LB30711100 28V

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 14.1 +-0.1  
**Stud Protrusion** 1.450 +-0.030

**Startlock Angle:** NA  
**Feather/High Angle:** 34.7 +-1.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>             | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>                |
|------------------|--------------------|--------------------------------|-----------------|----------------|--------------------------------|
| PROPELLER        | J3F00028           | PHC-J3YF-1RF/F7691D-1/SM35     | 1               | A/C            |                                |
| PROPELLER        | J3F00028KD         | PHC-J3YF-1RF/F7691D-1/SM35     | 1               | A/C            |                                |
| PROPELLER        | J3F08000           | PHC-J3YF-1RF/F7691DK-1/SM35    | 1               | A/C            |                                |
| PROPELLER        | J3F08001           | PHC-J3YF-1RF/F7691DK-1[*1/SM35 | 1               | A/C            |                                |
| BLADE            | F7691D-1           | PCP:BLADE UNIT, ALUM [1,1,5]   | 3               | Prop           |                                |
| BLADE            | F7691DK-1          | PCP:BLADE UNIT,ALUM,SMR2263-2  | 3               | Prop           | 14 Volt                        |
| BLADE            | F7691DK-1*1        | PCP:BLADE UNIT, ALUM, SMR9050  | 3               | Prop           | 28 Volt                        |
| SPINNER          | C-6446-1           | SPINNER ASSEMBLY               | 1               | Prop           | W/O DEICE&DYNAMIC BALANCE HOLE |
| SPINNER          | C-6446-1P          | SPINNER ASSEMBLY               | 1               | Prop           | W/O DEICE&DYNAMIC BALANCE HOLE |
| SPINNER          | C-6446-2           | SPINNER ASSEMBLY               | 1               | Prop           | W/DEICE&DYNAMIC BALANCE HOLES  |
| SPINNER          | C-6446-2P          | SPINNER ASSEMBLY               | 1               | Prop           | W/DEICE&DYNAMIC BALANCE HOLES  |
| SPIN MTG KIT     | A-2476-35          | SPINNER - MTG KIT              | 1               | Prop           |                                |
| DE-ICER          | 7931-SMR2263-2     | PROP DE-ICER, 14 VOLT          | 1               | Blade          |                                |
| DE-ICER          | 7931-SMR6201       | STRAP, RESTRAINER, DE-ICE      | 1               | Blade          |                                |
| DE-ICER          | 7931-SMR9050       | PROP DE-ICER, 28 VOLT          | 1               | Blade          |                                |
| DE-ICER          | 7931-SMR9050       | PROP DE-ICER, 28 VOLT          | 1               | Blade          |                                |
| MTG BOLT/STUD    | A-2429-4           | STUD, MOUNTING, 1/2-20         | 6               | Prop           |                                |
| OVERHAUL KIT     | PHC-J3YF-1RF-OH    | O/H KIT                        | 1               | Prop           | For aftermarket use only       |

# HARTZELL

## APPLICATION GUIDE

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CESSNA

IDS No.: 2559 Rev.: 2 IC Date: 07/16/2015

**Model:** LC40-550FG  
**Trade Name:** CESSNA 300  
**Aircraft T.C./STC:** A00003SE  
**Propeller Model:** PHC-J3YF-1RF  
**Propeller T.C.:** P36EA

**Modifier:**  
**Engine Model:** IO-550-N  
**Power:** 310 HP @ 2700 RPM  
**Placard/Restr:** Do not exceed 20 in. MP with propeller below 2200 RPM; Intentional spins prohibited.  
**Notes:** De-icer and restrainer straps only installed.

**Blade Model(s):** F7691D-1  
 F7691DK-1  
**Prop Diameter:** 77" to 76"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 14.1 +-0.1  
**Stud Protrusion** 1.450 +-0.030

**Startlock Angle:** NA  
**Feather/High Angle:** 34.7 +-1.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type     | Item Number     | Description                   | Quantity | Qty Per | Comments                 |
|---------------|-----------------|-------------------------------|----------|---------|--------------------------|
| PROPELLER     | J3F00028        | PHC-J3YF-1RF/F7691D-1/SM35    | 1        | A/C     |                          |
| PROPELLER     | J3F08000        | PHC-J3YF-1RF/F7691DK-1/SM35   | 1        | A/C     |                          |
| BLADE         | F7691D-1        | PCP:BLADE UNIT, ALUM [1,1,5]  | 3        | Prop    |                          |
| BLADE         | F7691DK-1       | PCP:BLADE UNIT,ALUM,SMR2263-2 | 3        | Prop    |                          |
| SPINNER       | C-6446-1        | SPINNER ASSEMBLY              | 1        | Prop    |                          |
| SPINNER       | C-6446-1P       | SPINNER ASSEMBLY              | 1        | Prop    |                          |
| SPIN MTG KIT  | A-2476-35       | SPINNER - MTG KIT             | 1        | Prop    |                          |
| DE-ICER       | 7931-SMR2263-2  | PROP DE-ICER, 14 VOLT         | 1        | Blade   | DEICER                   |
| DE-ICER       | 7931-SMR6201    | STRAP, RESTRAINER, DE-ICE     | 1        | Blade   | (Restrainer Strap)       |
| MTG BOLT/STUD | A-2429-4        | STUD, MOUNTING, 1/2-20        | 6        | Prop    |                          |
| OVERHAUL KIT  | PHC-J3YF-1RF-OH | O/H KIT                       | 1        | Prop    | For aftermarket use only |

# HARTZELL

## APPLICATION GUIDE

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CESSNA

IDS No.: 1510 Rev.: 1 IC Date: 07/16/2015

**Model:** LC41-550FG  
**Trade Name:** CESSNA 400  
**Aircraft T.C./STC:** Experimental  
**Propeller Model:** PHC-J3YF-1RF  
**Propeller T.C.:** P36EA  
**Blade Model(s):** F7693DF  
**Prop Diameter:** 78.0"

**Modifier:**  
**Engine Model:** TSIO-550-E  
**Power:** 310 HP @ 2600 RPM  
**Placard/Restr:**  
**Notes:**

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 14.4 +-0.1  
**Stud Protrusion** 1.450 +-0.030

**Startlock Angle:** NA  
**Feather/High Angle:** 40.0 +-1.0  
**Cwt Angle:**

### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>        | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|---------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | J3F00031           | PHC-J3YF-1RF/F7693DF/SM35 | 1               | A/C            |                          |
| BLADE            | F7693DF            | PCP:BLADE UNIT, ALUMINUM  | 3               | Prop           |                          |
| SPINNER          | C-6446-1           | SPINNER ASSEMBLY          | 1               | Prop           |                          |
| SPINNER          | C-6446-1P          | SPINNER ASSEMBLY          | 1               | Prop           |                          |
| SPIN MTG KIT     | A-2476-35          | SPINNER - MTG KIT         | 1               | Prop           |                          |
| MTG BOLT/STUD    | A-2429-4           | STUD, MOUNTING, 1/2-20    | 6               | Prop           |                          |
| OVERHAUL KIT     | PHC-J3YF-1RF-OH    | O/H KIT                   | 1               | Prop           | For aftermarket use only |

# HARTZELL

## APPLICATION GUIDE 159

CESSNA

IDS No.: 1833      Rev.: 1      IC      Date: 08/15/2016

**Model:** LC41-550FG  
**Trade Name:** CESSNA 400  
**Aircraft T.C./STC:** Experimental  
**Propeller Model:** HC-J3YF-1RF  
**Propeller T.C.:** P36EA  
**Blade Model(s):** F7693DF  
**Prop Diameter:** 78.0"

**Modifier:**  
**Engine Model:** TSIO-550-E  
**Power:** 310 HP @ 2600 RPM  
**Placard/Restr:**  
**Notes:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 14.4 +-0.1  
**Stud Protrusion** 1.450 +-0.030

**Startlock Angle:** NA  
**Feather/High Angle:** 40.0 +-1.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>       | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>                |
|------------------|--------------------|--------------------------|-----------------|----------------|--------------------------------|
| PROPELLER        | J3F00210           | HC-J3YF-1RF/F7693DF/SM35 | 1               | A/C            |                                |
| BLADE            | F7693DF            | PCP:BLADE UNIT, ALUMINUM | 3               | Prop           |                                |
| SPINNER          | C-6446-1           | SPINNER ASSEMBLY         | 1               | Prop           | W/O DEICE&DYNAMIC BALANCE HOLE |
| SPINNER          | C-6446-1P          | SPINNER ASSEMBLY         | 1               | Prop           | W/O DEICE&DYNAMIC BALANCE HOLE |
| SPINNER          | C-6446-2           | SPINNER ASSEMBLY         | 1               | Prop           | W/DEICE&DYNAMIC BALANCE HOLES  |
| SPINNER          | C-6446-2P          | SPINNER ASSEMBLY         | 1               | Prop           | W/DEICE&DYNAMIC BALANCE HOLES  |
| SPIN MTG KIT     | A-2476-35          | SPINNER - MTG KIT        | 1               | Prop           |                                |
| MTG BOLT/STUD    | A-2429-4           | STUD, MOUNTING, 1/2-20   | 6               | Prop           |                                |

# HARTZELL

## APPLICATION GUIDE

159

CESSNA

IDS No.: 2016 Rev.: 5 IC Date: 01/04/2022

**Model:** LC41-550FG, T240  
**Trade Name:** CESSNA 400, CORVALIS TTx  
**Aircraft T.C./STC:** A00003SE  
**Propeller Model:** HC-H3YF-1RF  
**Propeller T.C.:** P35EA  
**Blade Model(s):** F7693DF  
 F7693DF\*1  
 F7693DFK  
 F7693DFK\*1  
**Prop Diameter:** 77.0" - 78.0"

**Modifier:**  
**Engine Model:** TSIO-550-C  
**Power:** 310 HP @ 2600 RPM  
**Placard/Restr:** Intentional spins prohibited.  
**Notes:** Select or adjust A-2420-( ) high pitch stop spacer to assure a minimum of .010 clearance between piston and hub; For aircraft with 14 volt de-ice systems refer to Cessna deice drawing: LB30711000.

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 16.5 +/-0.1  
**Stud Protrusion** 1.450 +/-0.030

**Startlock Angle:** NA  
**Feather/High Angle:** 43.0 +/-1.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type     | Item Number    | Description                   | Quantity | Qty Per | Comments                 |
|---------------|----------------|-------------------------------|----------|---------|--------------------------|
| PROPELLER     | H3F00311       | HC-H3YF-1RF/F7693DF/SM35      | 1        | A/C     |                          |
| PROPELLER     | H3F00320       | HC-H3YF-1RF/F7693DF[*1]/SM35  | 1        | A/C     |                          |
| PROPELLER     | H3F00320KD     | HC-H3YF-1RF/F7693DF[*1]/SM35  | 1        | A/C     |                          |
| PROPELLER     | H3F00400       | HC-H3YF-1RF/F7693DFK/SM35     | 1        | A/C     | SMR DE-ICE               |
| PROPELLER     | H3F00410       | HC-H3YF-1RF/F7693DFK[*1]/SM35 | 1        | A/C     | HPI DE-ICE               |
| PROPELLER     | H3F00410KD     | HC-H3YF-1RF/F7693DFK[*1]/SM35 | 1        | A/C     |                          |
| PROPELLER     | H3F00410S      | HC-H3YF-1RF/F7693DFK[*1]/SM35 | 1        | A/C     | HPI DE-ICE               |
| BLADE         | F7693DF        | PCP:BLADE UNIT, ALUMINUM      | 3        | Prop    |                          |
| BLADE         | F7693DF*1      | PCP:BLADE UNIT, ALUM [6,1,1]  | 3        | Prop    |                          |
| BLADE         | F7693DFK       | PCP:BLADE UNIT, ALUM [6,1,5]  | 3        | Prop    | 28 VOLT SMR DE-ICE       |
| BLADE         | F7693DFK*1     | PCP:BLADE,ALUM.[6,1,5],102196 | 3        | Prop    | 28V HARTZELL DE-ICE      |
| SPINNER       | C-6446-2       | SPINNER ASSEMBLY              | 1        | A/C     |                          |
| SPINNER       | C-6446-2P      | SPINNER ASSEMBLY              | 1        | A/C     |                          |
| SPIN MTG KIT  | A-2476-35      | SPINNER - MTG KIT             | 1        | Prop    |                          |
| DE-ICER       | 102196         | DE-ICE BOOT                   | 1        | Blade   | 28V HARTZELL DE-ICE      |
| DE-ICER       | 7931-SMR2263-2 | PROP DE-ICER, 14 VOLT         | 1        | Blade   | 14 VOLT SMR DE-ICE (SEE  |
| DE-ICER       | 7931-SMR6201   | STRAP, RESTRAINER, DE-ICE     | 1        | Blade   | STRAP                    |
| DE-ICER       | 7931-SMR9050   | PROP DE-ICER, 28 VOLT         | 1        | Blade   | 28 VOLT SMR DE-ICE       |
| DE-ICE KIT PR | 102284-1       | DE-ICE KIT (ONE PROP)         | 1        | Prop    | 28 Volt HARTZELL DE-ICE  |
| MTG BOLT/STUD | A-2429-4       | STUD, MOUNTING, 1/2-20        | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-H3YF-1RF-OH | O/H KIT                       | 1        | Prop    | For aftermarket use only |

# HARTZELL

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CESSNA

**Model:** T50  
**Trade Name:**  
**Aircraft T.C./STC:** STC-SA2397  
**Propeller Model:** HC-93Z20-2B  
**Propeller T.C.:**  
**Blade Model(s):** 9349-5  
9349N-5  
9350-5  
9350N-5  
**Prop Diameter:** 88" NO CUT OFF

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 16.0 +-0.2  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u> | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>     |
|------------------|--------------------|--------------------|-----------------|----------------|---------------------|
| BLADE            | 9349-5             | IDS Item           | 3               | Prop           | REPLACED BY 9349N-5 |
| BLADE            | 9349N-5            | IDS Item           | 3               | Prop           |                     |
| BLADE            | 9350-5             | IDS Item           | 3               | Prop           | REPLACED BY 9350N-5 |
| BLADE            | 9350N-5            | IDS Item           | 3               | Prop           |                     |
| SPINNER          | 836-31             | IDS Item           | 1               | Prop           |                     |
| SPINNER          | 836-32             | IDS Item           | 1               | Prop           |                     |

**IDS No.:** 334      **Rev.:** -      **DM Date:** 10/01/1992

**Modifier:** L. L. WALKER  
**Engine Model:** R680-9, R680-13  
**Power:** 300 HP @ 2300 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 83.0 +-1.0  
**Cwt Angle:** Positive

**Non-HPI Governor:**

CESSNA

**Model:** 120, 140, 140A  
**Trade Name:**  
**Aircraft T.C./STC:** 5A2  
**Propeller Model:** HA-12UF-1  
**Propeller T.C.:**  
**Blade Model(s):** 7214  
7214M  
7414  
**Prop Diameter:** 74" TO 72"

### Prop Setup:

**Ref. Radius:** 0  
**Reverse Angle:** NA  
**Low Pitch Angle:**  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u> | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|--------------------|-----------------|----------------|-----------------|
| BLADE            | 7214               | IDS Item           | 2               | Prop           |                 |
| BLADE            | 7214M              | IDS Item           | 2               | Prop           |                 |
| BLADE            | 7414               | IDS Item           | 2               | Prop           |                 |

**IDS No.:** 335      **Rev.:** -      **DM Date:** 10/01/1992

**Modifier:**  
**Engine Model:** C85-12, -12F, -14F  
**Power:** 85 HP @ 2575 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** NA  
**Cwt Angle:**

**Non-HPI Governor:**

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CESSNA

**Model:** 170  
**Trade Name:**  
**Aircraft T.C./STC:** STC-SA135CE  
**Propeller Model:** HC-82XL-1F, HC-A2XL-1  
**Propeller T.C.:** P24EA  
**Blade Model(s):** 7636-4  
7636D-4  
**Prop Diameter:** 72.2"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.0 +/-0.2  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 2130      **Rev.:** -      **DM Date:** 01/12/2004

**Modifier:** KWAD CO.  
**Engine Model:** O-320-(A,B)1(A,B), -(A,B)3(A,B)  
**Power:** 160 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 25.5 +/-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:** WOODWARD

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u> | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>        |
|------------------|--------------------|--------------------|-----------------|----------------|------------------------|
| BLADE            | 7636-4             | BLADE              | 2               | Prop           |                        |
| BLADE            | 7636D-4            | BLADE              | 2               | Prop           |                        |
| SPINNER          | 835-30             | SPINNER ASSEMBLY   | 1               | Prop           |                        |
| SPINNER          | 835-6P             | IDS Item           | 1               | Prop           | Superseded, use 835-30 |

CESSNA

**Model:** 170  
**Trade Name:**  
**Aircraft T.C./STC:** STC-SA135CE  
**Propeller Model:** HC-82VL-1F, HC-A2VL-1  
**Propeller T.C.:** P24EA  
**Blade Model(s):** V7636D-4  
V7636N-4  
**Prop Diameter:** 72.2"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.0 +/-0.2  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 2131      **Rev.:** -      **DM Date:** 01/12/2004

**Modifier:** KWAD CO.  
**Engine Model:** O-320-(A,B)1(A,B), -(A,B)3(A,B)  
**Power:** 160 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 25.5 +/-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:** WOODWARD

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u> | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>        |
|------------------|--------------------|--------------------|-----------------|----------------|------------------------|
| BLADE            | V7636D-4           | BLADE              | 2               | Prop           |                        |
| BLADE            | V7636N-4           | BLADE              | 2               | Prop           |                        |
| SPINNER          | 835-30             | SPINNER ASSEMBLY   | 1               | Prop           |                        |
| SPINNER          | 835-6P             | IDS Item           | 1               | Prop           | Superseded, use 835-30 |



# HARTZELL

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CESSNA

**Model:** 170  
**Trade Name:**  
**Aircraft T.C./STC:** STC-SA135CE  
**Propeller Model:** HC-A2MVL-1  
**Propeller T.C.:** P24EA  
**Blade Model(s):** MV7636N-4  
**Prop Diameter:** 72.2"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.0 +-0.2  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 338      **Rev.:** -      **DM Date:** 01/12/2004

**Modifier:** KWAD CO.  
**Engine Model:** O-320-(A,B)1(A,B), -(A,B)3(A,B)  
**Power:** 160 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 25.5 +-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:** WOODWARD

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>       | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>        |
|------------------|--------------------|--------------------------|-----------------|----------------|------------------------|
| BLADE            | MV7636N-4          | PCP:BLADE UNIT, ALUMINUM | 2               | Prop           |                        |
| SPINNER          | 835-30             | SPINNER ASSEMBLY         | 1               | Prop           |                        |
| SPINNER          | 835-6P             | IDS Item                 | 1               | Prop           | Superceded, use 835-30 |

CESSNA

**Model:** 170  
**Trade Name:**  
**Aircraft T.C./STC:** STC-SA1-245  
**Propeller Model:** HC-82XL-1F, HC-A2XL-1F, HC-82XL-1, HC-A2XL-1  
**Propeller T.C.:** P24EA  
**Blade Model(s):** 8433-12  
**Prop Diameter:** 72.2"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 11.3 +-0.2  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 2128      **Rev.:** -      **DM Date:** 11/20/2003

**Modifier:** TURNER AVIATION  
**Engine Model:** O-340-A1A  
**Power:** 170 HP @ 2700 RPM  
**Placard/Restr:**

**Notes:**  
**Startlock Angle:** NA  
**Feather/High Angle:** 23.6 +-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u> | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|--------------------|-----------------|----------------|-----------------|
| BLADE            | 8433-12            | BLADE              | 2               | Prop           |                 |
| SPINNER          | 835-30             | SPINNER ASSEMBLY   | 1               | Prop           |                 |

# HARTZELL

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CESSNA

**Model:** 170  
**Trade Name:**  
**Aircraft T.C./STC:** STC-SA3-13  
**Propeller Model:** HC-82XL-1, HC-A2XL-1  
**Propeller T.C.:** P24EA  
**Blade Model(s):** 7636-4  
7636D-4  
**Prop Diameter:** 72.2"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.0 +/-0.2  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 2132      **Rev.:** -      **DM Date:** 01/12/2004

**Modifier:** KWAD CO.  
**Engine Model:** O-340  
**Power:** 170 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 25.5 +/-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:** WOODWARD

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u> | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>        |
|------------------|--------------------|--------------------|-----------------|----------------|------------------------|
| BLADE            | 7636-4             | BLADE              | 2               | Prop           |                        |
| BLADE            | 7636D-4            | BLADE              | 2               | Prop           |                        |
| SPINNER          | 835-30             | SPINNER ASSEMBLY   | 1               | Prop           |                        |
| SPINNER          | 835-6P             | IDS Item           | 1               | Prop           | Superseded, use 835-30 |
| GOVERNOR         | B4-1               | IDS Item           | 1               | A/C            |                        |

CESSNA

**Model:** 170  
**Trade Name:**  
**Aircraft T.C./STC:** STC-SA1-245  
**Propeller Model:** HC-82VL-1F, HC-A2VL-1F, HC-82VL-1, HC-A2VL-1  
**Propeller T.C.:** P24EA  
**Blade Model(s):** V8433N-12  
**Prop Diameter:** 72.2"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 11.3 +/-0.2  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 2129      **Rev.:** -      **DM Date:** 11/20/2003

**Modifier:** TURNER AVIATION  
**Engine Model:** O-340-A1A  
**Power:** 170 HP @ 2700 RPM  
**Placard/Restr:**

**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 23.6 +/-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u> | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|--------------------|-----------------|----------------|-----------------|
| BLADE            | V8433N-12          | BLADE              | 2               | Prop           |                 |
| SPINNER          | 835-30             | SPINNER ASSEMBLY   | 1               | Prop           |                 |

# HARTZELL

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CESSNA

Model: 170  
 Trade Name:  
 Aircraft T.C./STC: STC-SA3-13  
 Propeller Model: HC-82VL-1, HC-A2VL-1  
 Propeller T.C.: P24EA  
 Blade Model(s): V7636D-4  
 V7636N-4  
 Prop Diameter: 72.2"

**Prop Setup:**

Ref. Radius: 30  
 Reverse Angle: NA  
 Low Pitch Angle: 12.0 +-0.2  
 Stud Protrusion

**Non-HPI Items:**

Non-HPI Spinner:

**Hartzell Approved Items:**

| Item Type | Item Number | Description      | Quantity | Qty Per | Comments               |
|-----------|-------------|------------------|----------|---------|------------------------|
| BLADE     | V7636D-4    | BLADE            | 2        | Prop    |                        |
| BLADE     | V7636N-4    | BLADE            | 2        | Prop    |                        |
| SPINNER   | 835-30      | SPINNER ASSEMBLY | 1        | Prop    |                        |
| SPINNER   | 835-6P      | IDS Item         | 1        | Prop    | Superseded, use 835-30 |
| GOVERNOR  | B4-1        | IDS Item         | 1        | A/C     |                        |

IDS No.: 2133 Rev.: - DM Date: 01/12/2004

Modifier: KWAD CO.  
 Engine Model: O-340  
 Power: 170 HP @ 2700 RPM  
 Placard/Restr:  
 Notes:

Startlock Angle: NA  
 Feather/High Angle: 25.5 +-0.5  
 Cwt Angle: Positive

Non-HPI Governor: WOODWARD

CESSNA

Model: 170  
 Trade Name:  
 Aircraft T.C./STC: STC-SA1-245  
 Propeller Model: HC-A2MVL-1  
 Propeller T.C.: P24EA  
 Blade Model(s): MV8433N-12  
 Prop Diameter: 72.2"

**Prop Setup:**

Ref. Radius: 30  
 Reverse Angle: NA  
 Low Pitch Angle: 11.3 +-0.2  
 Stud Protrusion

**Non-HPI Items:**

Non-HPI Spinner:

**Hartzell Approved Items:**

| Item Type | Item Number | Description              | Quantity | Qty Per | Comments |
|-----------|-------------|--------------------------|----------|---------|----------|
| BLADE     | MV8433N-12  | PCP:BLADE UNIT, ALUMINUM | 2        | Prop    |          |
| SPINNER   | 835-30      | SPINNER ASSEMBLY         | 1        | Prop    |          |

IDS No.: 337 Rev.: - DM Date: 05/13/1998

Modifier: TURNER AVIATION  
 Engine Model: O-340-A1A  
 Power: 170 HP @ 2700 RPM  
 Placard/Restr:  
 Notes:

Startlock Angle: NA  
 Feather/High Angle: 23.6 +-0.5  
 Cwt Angle: Positive

Non-HPI Governor:

# HARTZELL

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CESSNA

**Model:** 170  
**Trade Name:**  
**Aircraft T.C./STC:** STC-SA3-13  
**Propeller Model:** HC-A2MVL-1  
**Propeller T.C.:** P24EA  
**Blade Model(s):** MV7636N-4  
**Prop Diameter:** 72.2"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.0 +/-0.2  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 339      **Rev.:** -      **DM Date:** 01/12/2004

**Modifier:** KWAD CO.  
**Engine Model:** O-340  
**Power:** 170 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 25.5 +/-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:** WOODWARD

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>       | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>        |
|------------------|--------------------|--------------------------|-----------------|----------------|------------------------|
| BLADE            | MV7636N-4          | PCP:BLADE UNIT, ALUMINUM | 2               | Prop           |                        |
| SPINNER          | 835-30             | SPINNER ASSEMBLY         | 1               | Prop           |                        |
| SPINNER          | 835-6P             | IDS Item                 | 1               | Prop           | Superceded, use 835-30 |
| GOVERNOR         | B4-1               | IDS Item                 | 1               | A/C            |                        |

CESSNA

**Model:** 170  
**Trade Name:**  
**Aircraft T.C./STC:** STC-SA421CE  
**Propeller Model:** HC-C2YK-1A  
**Propeller T.C.:** P-920  
  
**Blade Model(s):** F7666A-2  
**Prop Diameter:** 74"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** UNKNOWN  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 340      **Rev.:** -      **DM Date:** 10/12/2006

**Modifier:** MID AMERICAN STOL  
**Engine Model:** O-360-A1A, -A1D  
**Power:** 180 HP @ 2700 RPM  
**Placard/Restr:** Avoid continuous operation between 2000 and 2250 RPM.  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** UNKNOWN  
**Cwt Angle:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>       | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|--------------------------|-----------------|----------------|-----------------|
| BLADE            | F7666A-2           | PCP:BLADE UNIT, ALUMINUM | 2               | Prop           |                 |
| SPINNER          | 835-33             | SPINNER ASSEMBLY         | 1               | Prop           |                 |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20   | 6               | Prop           |                 |

# HARTZELL

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CESSNA

**Model:** 175, 175 A, B, C  
**Trade Name:**  
**Aircraft T.C./STC:** SA02343AK  
**Propeller Model:** HC-C2YR-1BFP  
**Propeller T.C.:** P-920  
**Blade Model(s):** F8477-2  
**Prop Diameter:** 82" to 81"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** 11.5 +/- 0.2  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type    | Item Number    | Description                  | Quantity | Qty Per | Comments                 |
|--------------|----------------|------------------------------|----------|---------|--------------------------|
| PROPELLER    | C2R11200       | HC-C2YR-1BFP/F8477-2/SM41    | 1        | A/C     |                          |
| BLADE        | F8477-2        | PCP:BLADE UNIT, ALUM [1,1,1] | 2        | Prop    |                          |
| SPINNER      | C-3568         | SPINNER ASSEMBLY             | 1        | Prop    |                          |
| SPINNER      | C-3568-P       | SPINNER ASSEMBLY             | 1        | Prop    |                          |
| SPIN MTG KIT | A-2476-41      | SPINNER - MTG KIT            | 1        | Prop    |                          |
| OVERHAUL KIT | HC-C2YR-1BF-OH | O/H KIT                      | 1        | Prop    | For aftermarket use only |

**IDS No.:** 3130      **Rev.:** 3      **IC Date:** 07/07/2015

**Modifier:** David A. Stoots  
**Engine Model:** IO-390-A3A6  
**Power:** 210 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:**  
**Feather/High Angle:** 30.0 +/- 1.0  
**Cwt Angle:**

**Non-HPI Governor:**

CESSNA

**Model:** 170, 170A, 170B  
**Trade Name:**  
**Aircraft T.C./STC:** STC-SA135CE  
**Propeller Model:** HC-82XL-1F  
**Propeller T.C.:** P878  
**Blade Model(s):** 7636D-4  
**Prop Diameter:** 72.2"

**Prop Setup:**

**Ref. Radius:**  
**Reverse Angle:**  
**Low Pitch Angle:**  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type | Item Number | Description      | Quantity | Qty Per | Comments |
|-----------|-------------|------------------|----------|---------|----------|
| BLADE     | 7636D-4     | BLADE            | 2        | Prop    |          |
| SPINNER   | 835-30      | SPINNER ASSEMBLY | 1        | Prop    |          |
| SPINNER   | 835-6P      | IDS Item         | 1        | Prop    |          |

**IDS No.:** 2363      **Rev.:** -      **DM Date:** 12/18/2003

**Modifier:** KWAD CO.  
**Engine Model:** O-320-(A,B)1(A,B), (A,B)3(A,B)  
**Power:** 160 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:**  
**Feather/High Angle:**  
**Cwt Angle:**

**Non-HPI Governor:** WOODWARD

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**CESSNA**

**Model:** 170, 170A, 170B  
**Trade Name:**  
**Aircraft T.C./STC:** STC-SA135CE  
**Propeller Model:** HC-82VL-1F  
**Propeller T.C.:** P23EA  
**Blade Model(s):** V7636D-4  
**Prop Diameter:** 72.2"

**Prop Setup:**

**Ref. Radius:**  
**Reverse Angle:**  
**Low Pitch Angle:**  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type | Item Number | Description      | Quantity | Qty Per | Comments |
|-----------|-------------|------------------|----------|---------|----------|
| BLADE     | V7636D-4    | BLADE            | 2        | Prop    |          |
| SPINNER   | 835-30      | SPINNER ASSEMBLY | 1        | Prop    |          |
| SPINNER   | 835-6P      | IDS Item         | 1        | Prop    |          |

**IDS No.:** 2364      **Rev.:** -      **DM Date:** 12/18/2003

**Modifier:** KWAD CO.  
**Engine Model:** O-320-(A,B)1(A,B), (A,B)3(A,B)  
**Power:** 160 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:**  
**Feather/High Angle:**  
**Cwt Angle:**

**Non-HPI Governor:** WOODWARD

**CESSNA**

**Model:** 170, 172, 175  
**Trade Name:**  
**Aircraft T.C./STC:** SA00461SE  
**Propeller Model:** HC-C2YR-1BF  
**Propeller T.C.:** P-920  
**Blade Model(s):** F8477-4  
**Prop Diameter:** 80" TO 78"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 10.0+-0.2  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number    | Description                    | Quantity | Qty Per | Comments                 |
|---------------|----------------|--------------------------------|----------|---------|--------------------------|
| PROPELLER     | C2R00074       | HC-C2YR-1BF/F8477-4/SM16/C1576 | 1        | A/C     |                          |
| BLADE         | F8477-4        | PCP:BLADE UNIT, ALUM [1,1,1]   | 2        | Prop    |                          |
| SPINNER       | C-3568         | SPINNER ASSEMBLY               | 1        | Prop    |                          |
| SPINNER       | C-3568-P       | SPINNER ASSEMBLY               | 1        | Prop    |                          |
| SPIN MTG KIT  | A-2476-16      | SPINNER - MTG KIT              | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2067         | STUD, MOUNTING, 1/2-20         | 6        | Prop    |                          |
| DAMPER        | C-1576         | DAMPER ASSEMBLY                | 1        | Prop    |                          |
| OVERHAUL KIT  | HC-C2YR-1BF-OH | O/H KIT                        | 1        | Prop    | For aftermarket use only |

**IDS No.:** 1854      **Rev.:** 2      **IC Date:** 01/19/2017

**Modifier:** DEL-AIR  
**Engine Model:** O-360  
**Power:** 180 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:** Must use C-1576 damper assembly

**Startlock Angle:** NA  
**Feather/High Angle:** 30.9+-1.0  
**Cwt Angle:**

**Non-HPI Governor:** NA

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**CESSNA**

**Model:** 170A  
**Trade Name:**  
**Aircraft T.C./STC:** STC-SA1-240  
**Propeller Model:** HC-12X20-8, HC-D2X20-8, HC-12X20-8D, HC-D2X20-8D  
**Propeller T.C.:** P48GL  
**Blade Model(s):** 8433-6  
**Prop Diameter:** 78"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 10.0 +-0.2  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u> | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|--------------------|-----------------|----------------|-----------------|
| BLADE            | 8433-6             | BLADE              | 2               | Prop           |                 |
| COUNTERWEIGHT    | 833-9              | IDS Item           | 1               | Blade          |                 |

**IDS No.:** 2126      **Rev.:** -      **DM Date:** 11/20/2003

**Modifier:** FULTON CONVERSION  
**Engine Model:** O-435-C  
**Power:** 190 HP @ 2550 RPM  
**Placard/Restr:**

**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 23.6 +-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:**

**CESSNA**

**Model:** 170A  
**Trade Name:**  
**Aircraft T.C./STC:** STC-SA1-240  
**Propeller Model:** HC-12V20-8, HC-D2V20-8, HC-12V20-8D, HC-D2V20-8D  
**Propeller T.C.:** P48GL  
**Blade Model(s):** V8433-6  
V8433N-6  
**Prop Diameter:** 78"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 10.0 +-0.2  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u> | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|--------------------|-----------------|----------------|-----------------|
| BLADE            | V8433-6            | BLADE              | 2               | Prop           |                 |
| BLADE            | V8433N-6           | BLADE              | 2               | Prop           |                 |
| COUNTERWEIGHT    | 833-9              | IDS Item           | 1               | Blade          |                 |

**IDS No.:** 2127      **Rev.:** -      **DM Date:** 11/20/2003

**Modifier:** FULTON CONVERSION  
**Engine Model:** O-435-C  
**Power:** 190 HP @ 2550 RPM  
**Placard/Restr:**

**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 23.6 +-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:**

# HARTZELL

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**CESSNA**

**Model:** 170A  
**Trade Name:**  
**Aircraft T.C./STC:** STC-SA1-240  
**Propeller Model:** HC-D2MV20-8  
**Propeller T.C.:** P48GL  
**Blade Model(s):** MV8433N-6  
**Prop Diameter:** 78"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 10.0 +/-0.2  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number | Description              | Quantity | Qty Per | Comments |
|---------------|-------------|--------------------------|----------|---------|----------|
| BLADE         | MV8433N-6   | PCP:BLADE UNIT, ALUMINUM | 2        | Prop    |          |
| COUNTERWEIGHT | 833-9       | IDS Item                 | 1        | Blade   |          |

**IDS No.:** 336      **Rev.:** -      **DM Date:** 05/13/1998

**Modifier:** FULTON CONVERSION  
**Engine Model:** O-435-C  
**Power:** 190 HP @ 2550 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 23.6 +/-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:**

**CESSNA**

**Model:** 170A, 170B  
**Trade Name:**  
**Aircraft T.C./STC:** STC-SA3-13  
**Propeller Model:** HC-82XL-1F  
**Propeller T.C.:** P878  
**Blade Model(s):** 8433-12  
**Prop Diameter:** 72.2"

**Prop Setup:**

**Ref. Radius:**  
**Reverse Angle:**  
**Low Pitch Angle:**  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type | Item Number | Description      | Quantity | Qty Per | Comments |
|-----------|-------------|------------------|----------|---------|----------|
| BLADE     | 8433-12     | BLADE            | 2        | Prop    |          |
| SPINNER   | 835-30      | SPINNER ASSEMBLY | 1        | Prop    |          |
| SPINNER   | 835-6P      | IDS Item         | 1        | Prop    |          |
| GOVERNOR  | B4-1        | IDS Item         | 1        | A/C     |          |

**IDS No.:** 2365      **Rev.:** -      **DM Date:** 12/18/2003

**Modifier:** KWAD CO.  
**Engine Model:** O-340-A1A  
**Power:** 170 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:**  
**Feather/High Angle:**  
**Cwt Angle:**

**Non-HPI Governor:** WOODWARD



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**CESSNA**

**Model:** 170A, 170B  
**Trade Name:**  
**Aircraft T.C./STC:** STC-SA3-13  
**Propeller Model:** HC-82VL-1F  
**Propeller T.C.:** P23EA  
**Blade Model(s):** V8433N-12  
**Prop Diameter:** 72.2"

**Prop Setup:**

**Ref. Radius:**  
**Reverse Angle:**  
**Low Pitch Angle:**  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type | Item Number | Description      | Quantity | Qty Per | Comments |
|-----------|-------------|------------------|----------|---------|----------|
| BLADE     | V8433N-12   | BLADE            | 2        | Prop    |          |
| SPINNER   | 835-30      | SPINNER ASSEMBLY | 1        | Prop    |          |
| SPINNER   | 835-6P      | IDS Item         | 1        | Prop    |          |
| GOVERNOR  | B4-1        | IDS Item         | 1        | A/C     |          |

**IDS No.:** 2366      **Rev.:** -      **DM Date:** 12/18/2003

**Modifier:** KWAD CO.  
**Engine Model:** O-340-A1A  
**Power:** 170 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:**  
**Feather/High Angle:**  
**Cwt Angle:**

**Non-HPI Governor:** WOODWARD

**CESSNA**

**Model:** 170(A,B)  
**Trade Name:**  
**Aircraft T.C./STC:** SA02155AK  
**Propeller Model:** HC-C2YR-1BF  
**Propeller T.C.:** P-920  
**Blade Model(s):** F8477-4  
**Prop Diameter:** 80" TO 78"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 10.0+-0.2  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number    | Description                    | Quantity | Qty Per | Comments                 |
|---------------|----------------|--------------------------------|----------|---------|--------------------------|
| PROPELLER     | C2R00077       | HC-C2YR-1BF/F8477-4/SM16/C1576 | 1        | A/C     |                          |
| PROPELLER     | C2R00083       | HC-C2YR-1BF/F8477-4/SM16       | 1        | A/C     |                          |
| BLADE         | F8477-4        | PCP:BLADE UNIT, ALUM [1,1,1]   | 2        | Prop    |                          |
| SPINNER       | C-3568         | SPINNER ASSEMBLY               | 1        | Prop    |                          |
| SPINNER       | C-3568-P       | SPINNER ASSEMBLY               | 1        | Prop    |                          |
| SPIN MTG KIT  | A-2476-16      | SPINNER - MTG KIT              | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2067         | STUD, MOUNTING, 1/2-20         | 6        | Prop    |                          |
| DAMPER        | C-1576         | DAMPER ASSEMBLY                | 1        | Prop    |                          |
| OVERHAUL KIT  | HC-C2YR-1BF-OH | O/H KIT                        | 1        | Prop    | For aftermarket use only |

**IDS No.:** 2457      **Rev.:** 1      **IC Date:** 07/07/2015

**Modifier:** DAVID A. STOOTS  
**Engine Model:** O-360-()()()  
**Power:** 180 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:** Must use C-1576 damper assembly

**Startlock Angle:** NA  
**Feather/High Angle:** 30.9+-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

# HARTZELL

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CESSNA

**Model:** 170, 170A, 170B  
**Trade Name:**  
**Aircraft T.C./STC:** STC-SA749CE  
**Propeller Model:** HC-C2YK-1BF  
**Propeller T.C.:** P-920

**Blade Model(s):** F7666A  
**Prop Diameter:** 76"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 11.2 +/-0.1  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 341 **Rev.:** 1 **IC Date:** 07/07/2015

**Modifier:** ROBERT WILLIAMS (AVCON)  
**Engine Model:** O-360-A1A, -A1B  
**Power:** 180 HP @ 2700 RPM  
**Placard/Restr:** Avoid continuous operation between 2000 and 2250 RPM.

### **Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 30.0 +/-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>           | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|------------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | C2K00008           | HC-C2YK-1BF/F7666A           | 1               | A/C            |                          |
| BLADE            | F7666A             | PCP:BLADE UNIT, ALUM [1,1,1] | 2               | Prop           |                          |
| SPINNER          | 835-33             | SPINNER ASSEMBLY             | 1               | Prop           |                          |
| SPINNER          | 835-33P            | SPINNER ASSEMBLY             | 1               | Prop           |                          |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20       | 6               | Prop           |                          |
| OVERHAUL KIT     | HC-C2YK-1BF-OH     | O/H KIT                      | 1               | Prop           | For aftermarket use only |

CESSNA

**Model:** 170A, 170B  
**Trade Name:**  
**Aircraft T.C./STC:** STC-SA806CE  
**Propeller Model:** HC-C2YK-1BF  
**Propeller T.C.:** P-920

**Blade Model(s):** F7666A-2  
**Prop Diameter:** 74"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 14.0 +/-0.1  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 342 **Rev.:** 1 **IC Date:** 07/07/2015

**Modifier:** AVCON INDUSTRIES  
**Engine Model:** O-360-A1A  
**Power:** 180 HP @ 2700 RPM  
**Placard/Restr:** Avoid continuous operation between 2000 and 2250 RPM

**Notes:** 170B: Land planes, normal category only

**Startlock Angle:** NA  
**Feather/High Angle:** 29.0 +/-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>       | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|--------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | C2K00045           | HC-C2YK-1BF/F7666A-2     | 1               | A/C            |                          |
| BLADE            | F7666A-2           | PCP:BLADE UNIT, ALUMINUM | 2               | Prop           |                          |
| SPINNER          | 835-33             | SPINNER ASSEMBLY         | 1               | Prop           |                          |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20   | 6               | Prop           |                          |
| OVERHAUL KIT     | HC-C2YK-1BF-OH     | O/H KIT                  | 1               | Prop           | For aftermarket use only |

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CESSNA

**Model:** 170A, 170B  
**Trade Name:**  
**Aircraft T.C./STC:** SA01111CH  
**Propeller Model:** HC-C2YR-1BF  
**Propeller T.C.:** P-920  
**Blade Model(s):** F8477-4  
**Prop Diameter:** 80" TO 78"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 10.0+-0.2  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number    | Description                    | Quantity | Qty Per | Comments                 |
|---------------|----------------|--------------------------------|----------|---------|--------------------------|
| PROPELLER     | C2R00074       | HC-C2YR-1BF/F8477-4/SM16/C1576 | 1        | A/C     |                          |
| PROPELLER     | C2R00074STP    | C2R00074/SM16/C-3568-P/C-1576  | 1        | A/C     |                          |
| BLADE         | F8477-4        | PCP:BLADE UNIT, ALUM [1,1,1]   | 2        | Prop    |                          |
| SPINNER       | C-3568         | SPINNER ASSEMBLY               | 1        | Prop    |                          |
| SPINNER       | C-3568-P       | SPINNER ASSEMBLY               | 1        | Prop    |                          |
| SPIN MTG KIT  | A-2476-16      | SPINNER - MTG KIT              | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2067         | STUD, MOUNTING, 1/2-20         | 6        | Prop    |                          |
| DAMPER        | C-1576         | DAMPER ASSEMBLY                | 1        | Prop    |                          |
| OVERHAUL KIT  | HC-C2YR-1BF-OH | O/H KIT                        | 1        | Prop    | For aftermarket use only |

**IDS No.:** 1458      **Rev.:** 2      **IC Date:** 07/07/2015

**Modifier:** HARTZELL PROPELLER  
**Engine Model:** O-360-A1A  
**Power:** 180 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:** Must use C-1576 damper assembly

**Startlock Angle:** NA  
**Feather/High Angle:** 30.9+-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

CESSNA

**Model:** 170A,B 172,172A-H 175,175A-C P172D  
**Trade Name:**  
**Aircraft T.C./STC:** STC-SA00461SE  
**Propeller Model:** HC-C2YK-1BF  
**Propeller T.C.:** P-920  
  
**Blade Model(s):** F7666A  
**Prop Diameter:** 76" TO 72"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.0 +-0.2  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:** TBD

**Hartzell Approved Items:**

| Item Type     | Item Number    | Description                  | Quantity | Qty Per | Comments                 |
|---------------|----------------|------------------------------|----------|---------|--------------------------|
| PROPELLER     | C2K00038       | HC-C2YK-1BF/F7666A/SM8       | 1        | A/C     |                          |
| BLADE         | F7666A         | PCP:BLADE UNIT, ALUM [1,1,1] | 2        | Prop    |                          |
| SPIN MTG KIT  | A-2476-8       | SPINNER - MTG KIT            | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2067         | STUD, MOUNTING, 1/2-20       | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-C2YK-1BF-OH | O/H KIT                      | 1        | Prop    | For aftermarket use only |

**IDS No.:** 1559      **Rev.:** 1      **IC Date:** 07/07/2015

**Modifier:** DEL-AIR  
**Engine Model:** O-360-A1A, -A1D  
**Power:** 180 HP @ 2700 RPM  
**Placard/Restr:** Avoid continuous operation between 2000 and 2250 RPM

**Notes:**  
  
**Startlock Angle:** NA  
**Feather/High Angle:** 29.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

# HARTZELL

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CESSNA

IDS No.: 2018 Rev.: 2 IC Date: 07/24/2020

Model: 170A, 170B, 172, 172(A-P), 175, 175(A-C)

Trade Name: SKYHAWK

Aircraft T.C./STC: STC-SA293NW

Propeller Model: HC-C2YF-1BF

Propeller T.C.: P-920

Blade Model(s): F8459A-4

F8459A-4Q

Prop Diameter: 80" TO 76"

### Prop Setup:

Ref. Radius: 30

Reverse Angle: NA

Low Pitch Angle: 9.5 +-0.1

Stud Protrusion 1.210 +-0.015

Modifier: FRANKLIN AIRCRAFT ENGINES

Engine Model: 6A-350-C1(R,L),-C2

Power: 215 HP @ 2800 RPM

Placard/Restr:

Notes:

Startlock Angle: NA

Feather/High Angle: 30.0 +-1.0

Cwt Angle:

### Non-HPI Items:

Non-HPI Spinner:

Non-HPI Governor:

### Hartzell Approved Items:

| Item Type     | Item Number    | Description               | Quantity | Qty Per | Comments                 |
|---------------|----------------|---------------------------|----------|---------|--------------------------|
| PROPELLER     | C2F00319       | HC-C2YF-1BF/F8459A-4/SM2  | 1        | A/C     |                          |
| PROPELLER     | C2F00322       | HC-C2YF-1BF/F8459A-4Q/SM2 | 1        | A/C     |                          |
| BLADE         | F8459A-4       | PCP:BLADE UNIT, ALUMINUM  | 2        | Prop    |                          |
| BLADE         | F8459A-4Q      | PCP:BLADE UNIT, ALUMINUM  | 2        | Prop    |                          |
| SPINNER       | A-4203-P       | SPINNER ASSEMBLY          | 1        | Prop    |                          |
| GOVERNOR      | F4-9A          | GOVERNOR ASSEMBLY, F-4( ) | 1        | A/C     |                          |
| SPIN MTG KIT  | A-2476-2       | SPINNER - MTG KIT         | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2429-5       | STUD, MOUNTING, 1/2-20    | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-C2YF-1BF-OH | O/H KIT                   | 1        | Prop    | For aftermarket use only |

# HARTZELL

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**CESSNA**

**Model:** 170A, 170B, 172, 172(A-P), 175, 175(A-C)  
**Trade Name:** SKYHAWK  
**Aircraft T.C./STC:** STC-SA293NW  
**Propeller Model:** HC-C2YF-1BF  
**Propeller T.C.:** P-920  
**Blade Model(s):** F8459-4  
 F8459A-4  
**Prop Diameter:** 80" TO 76"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 9.5 +-0.1  
**Stud Protrusion** 1.210 +-0.015

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number    | Description                | Quantity | Qty Per | Comments                 |
|---------------|----------------|----------------------------|----------|---------|--------------------------|
| PROPELLER     | C2F00319       | HC-C2YF-1BF/F8459A-4/SM2   | 1        | A/C     |                          |
| BLADE         | F8459-4        | PCP:BLADE UNIT, ALUMINUM   | 2        | Prop    |                          |
| BLADE         | F8459A-4       | PCP:BLADE UNIT, ALUMINUM   | 2        | Prop    |                          |
| SPINNER       | A-4203         | SPINNER ASSEMBLY           | 1        | Prop    |                          |
| GOVERNOR      | F4-9A          | GOVERNOR ASSEMBLY, F-4-( ) | 1        | A/C     |                          |
| SPIN MTG KIT  | A-2476-2       | SPINNER - MTG KIT          | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2429-5       | STUD, MOUNTING, 1/2-20     | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-C2YF-1BF-OH | O/H KIT                    | 1        | Prop    | For aftermarket use only |

**IDS No.:** 351      **Rev.:** 2      **IC Date:** 07/24/2020

**Modifier:** FRANKLIN AIRCRAFT ENGINES

**Engine Model:** 6A-350-C1(R,L), -C2

**Power:** 215 HP @ 2800 RPM

**Placard/Restr:**

**Notes:** Uses non-standard mounting stud per customer's request

**Startlock Angle:** NA

**Feather/High Angle:** 30.0 +-1.0

**Cwt Angle:**

**Non-HPI Governor:**

**CESSNA**

**Model:** 172  
**Trade Name:** SKYHAWK  
**Aircraft T.C./STC:** STC-SA3-126  
**Propeller Model:** HC-82XL-1, HC-A2XL-1, HC-82XL-1F, HC-A2XL-1F  
**Propeller T.C.:** P24EA  
**Blade Model(s):** 8433-12  
**Prop Diameter:** 72.2"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 11.3 +-0.2  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number | Description           | Quantity | Qty Per | Comments               |
|---------------|-------------|-----------------------|----------|---------|------------------------|
| BLADE         | 8433-12     | BLADE                 | 2        | Prop    |                        |
| SPINNER       | 835-30      | SPINNER ASSEMBLY      | 1        | Prop    |                        |
| SPINNER       | 835-6P      | IDS Item              | 1        | Prop    | Superseded, use 835-30 |
| MTG BOLT/STUD | B-322       | BOLT,7/16-20,HEX HEAD | 6        | Prop    |                        |

**IDS No.:** 2134      **Rev.:** -      **DM Date:** 01/12/2004

**Modifier:** KWAD CO.

**Engine Model:** O-340-A1A

**Power:** 170 HP @ 2700 RPM

**Placard/Restr:**

**Notes:**

**Startlock Angle:** NA

**Feather/High Angle:** 23.0 +-2.5

**Cwt Angle:** Positive

**Non-HPI Governor:**

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**CESSNA**

**Model:** 172  
**Trade Name:** SKYHAWK  
**Aircraft T.C./STC:** STC-SA3-126  
**Propeller Model:** HC-82VL-1, HC-A2VL-1, HC-82VL-1F, HC-A2VL-1F  
**Propeller T.C.:** P24EA  
**Blade Model(s):** V8433N-12  
**Prop Diameter:** 72.2"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 11.3 +-0.2  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number | Description           | Quantity | Qty Per | Comments               |
|---------------|-------------|-----------------------|----------|---------|------------------------|
| BLADE         | V8433N-12   | BLADE                 | 2        | Prop    |                        |
| SPINNER       | 835-30      | SPINNER ASSEMBLY      | 1        | Prop    |                        |
| SPINNER       | 835-6P      | IDS Item              | 1        | Prop    | Superseded, use 835-30 |
| MTG BOLT/STUD | B-322       | BOLT,7/16-20,HEX HEAD | 6        | Prop    |                        |

**IDS No.:** 2135      **Rev.:** -      **DM Date:** 01/12/2004

**Modifier:** KWAD CO.  
**Engine Model:** O-340-A1A  
**Power:** 170 HP @ 2700 RPM  
**Placard/Restr:**

**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 23.0 +-2.5  
**Cwt Angle:** Positive

**Non-HPI Governor:**

**CESSNA**

**Model:** 172  
**Trade Name:** SKYHAWK  
**Aircraft T.C./STC:** STC-SA3-126  
**Propeller Model:** HC-A2MVL-1  
**Propeller T.C.:** P24EA  
**Blade Model(s):** MV8433N-12  
**Prop Diameter:** 72.2"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 11.3 +-0.2  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number   | Description              | Quantity | Qty Per | Comments                 |
|---------------|---------------|--------------------------|----------|---------|--------------------------|
| PROPELLER     | A22L1010      | HC-A2MVL-1/MV8433N-12    | 1        | A/C     |                          |
| BLADE         | MV8433N-12    | PCP:BLADE UNIT, ALUMINUM | 2        | Prop    |                          |
| SPINNER       | 835-30        | SPINNER ASSEMBLY         | 1        | Prop    |                          |
| SPINNER       | 835-6P        | IDS Item                 | 1        | Prop    | Superceded, use 835-30   |
| MTG BOLT/STUD | B-322         | BOLT,7/16-20,HEX HEAD    | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-A2MVL-1-OH | O/H KIT                  | 1        | Prop    | For aftermarket use only |

**IDS No.:** 343      **Rev.:** 2      **IC Date:** 07/06/2015

**Modifier:** KWAD CO.  
**Engine Model:** O-340-A1A  
**Power:** 170 HP @ 2700 RPM  
**Placard/Restr:**

**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 23.0 +-2.5  
**Cwt Angle:** Positive

**Non-HPI Governor:**

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**CESSNA**

**Model:** 172  
**Trade Name:** SKYHAWK  
**Aircraft T.C./STC:** STC-SA3-571  
**Propeller Model:** HC-C2YK-1BF  
**Propeller T.C.:** P-920

**Blade Model(s):** F7666A-2  
**Prop Diameter:** 74"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 14.0 +-0.2  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number    | Description                | Quantity | Qty Per | Comments                 |
|---------------|----------------|----------------------------|----------|---------|--------------------------|
| PROPELLER     | C2K00042       | HC-C2YK-1BF/F7666A-2       | 1        | A/C     |                          |
| BLADE         | F7666A-2       | PCP:BLADE UNIT, ALUMINUM   | 2        | Prop    |                          |
| SPINNER       | 835-20         | IDS Item                   | 1        | Prop    |                          |
| GOVERNOR      | F3-2           | GOVERNOR ASSEMBLY, F-3-( ) | 1        | A/C     |                          |
| MTG BOLT/STUD | A-2067         | STUD, MOUNTING, 1/2-20     | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-C2YK-1BF-OH | O/H KIT                    | 1        | Prop    | For aftermarket use only |

**IDS No.:** 344      **Rev.:** 1      **IC Date:** 07/07/2015

**Modifier:** KWAD CO.  
**Engine Model:** O-360-A1D  
**Power:** 180 HP @ 2700 RPM  
**Placard/Restr:** Avoid continuous operation between 2000 and 2250 RPM.

**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 27.0 +-2.0  
**Cwt Angle:**

**Non-HPI Governor:**

**CESSNA**

**Model:** 172  
**Trade Name:** SKYHAWK  
**Aircraft T.C./STC:** STC-SA807CE  
**Propeller Model:** HC-C2YK-1BF  
**Propeller T.C.:** P-920

**Blade Model(s):** F7666A  
 F7666A-2

**Prop Diameter:** 72" MIN

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 14.0 +-0.1  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:** AVCON

**Hartzell Approved Items:**

| Item Type     | Item Number    | Description                  | Quantity | Qty Per | Comments                 |
|---------------|----------------|------------------------------|----------|---------|--------------------------|
| PROPELLER     | C2K00007       | HC-C2YK-1BF/F7666A           | 0        |         |                          |
| PROPELLER     | C2K00045       | HC-C2YK-1BF/F7666A-2         | 1        | A/C     |                          |
| BLADE         | F7666A         | PCP:BLADE UNIT, ALUM [1,1,1] | 2        | Prop    |                          |
| BLADE         | F7666A-2       | PCP:BLADE UNIT, ALUMINUM     | 2        | Prop    |                          |
| GOVERNOR      | F3-1A          | GOVERNOR ASSEMBLY, F-3-( )   | 1        | A/C     |                          |
| MTG BOLT/STUD | A-2067         | STUD, MOUNTING, 1/2-20       | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-C2YK-1BF-OH | O/H KIT                      | 1        | Prop    | For aftermarket use only |

**IDS No.:** 352      **Rev.:** 1      **IC Date:** 07/07/2015

**Modifier:** AVCON INDUSTRIES  
**Engine Model:** O-360-A1A, -A1D, -A1F6  
**Power:** 180 HP @ 2700 RPM  
**Placard/Restr:** F7666A, O-360-A1A, -A1D - Avoid continuous operation between 2000 and 2250 RPM. F7666A-2, O-360-A1F6 - None

**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 29.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

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**CESSNA**

**Model:** 172  
**Trade Name:** SKYHAWK  
**Aircraft T.C./STC:** STC-SA1342GL  
**Propeller Model:** BHC-J2YF-1C  
**Propeller T.C.:** P37EA  
**Blade Model(s):** B7421  
**Prop Diameter:** 74"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 15.3 +/-0.1  
**Stud Protrusion** 1.050 +/-0.030

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number | Description               | Quantity | Qty Per | Comments |
|---------------|-------------|---------------------------|----------|---------|----------|
| BLADE         | B7421       | PCP:BLADE ASSY, COMPOSITE | 2        | Prop    |          |
| SPINNER       | D-5413-P    | SPINNER ASSEMBLY          | 1        | Prop    |          |
| MTG BOLT/STUD | A-2429-3    | STUD, MOUNTING, 1/2-20    | 6        | Prop    |          |

**IDS No.:** 353      **Rev.:** -      **DM Date:** 07/20/1999

**Modifier:** PORSCHE  
**Engine Model:** PFM 3200  
**Power:** 217 HP @ 2343 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 40.0 +/-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

**CESSNA**

**Model:** 172  
**Trade Name:**  
**Aircraft T.C./STC:** STC SA03300CH  
**Propeller Model:** 3A1-TP724A1  
**Propeller T.C.:** P00013CH  
**Blade Model(s):** 75A01-2  
**Prop Diameter:** 74"

**Prop Setup:**

**Ref. Radius:** 30"  
**Reverse Angle:**  
**Low Pitch Angle:** 12.9 +/-0/-0.2  
**Stud Protrusion** 1.050 +/- .030

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number | Description                   | Quantity | Qty Per | Comments |
|---------------|-------------|-------------------------------|----------|---------|----------|
| PROPELLER     | 3AT00002    | 3A1-TP724A1/75A01-2           | 1        | A/C     |          |
| BLADE         | 75A01-2     | PCP:BLADE ASSEMBLY, COMPOSITE | 3        | Prop    |          |
| SPINNER       | 104888      | SPINNER ASSEMBLY, COMPOSITE   | 1        | Prop    |          |
| SPINNER       | 104888F1    | SPINNER ASSEMBLY, COMPOSITE   | 1        | Prop    |          |
| SPINNER       | 104888F2    | SPINNER ASSEMBLY, COMPOSITE   | 1        | Prop    |          |
| SPIN MTG KIT  | B-3384-1H   | BOLT, 1/4-28, HEX HEAD        | 6        | Prop    |          |
| SPIN MTG KIT  | B-3837-0432 | WASHER, CORROSION RESISTANT   | 6        | Prop    |          |
| SPIN MTG KIT  | C-3317-129  | O - RING                      | 1        | Prop    | Bagged   |
| MTG BOLT/STUD | 100041      | STUD, MOUNTING, 7/16-20       | 6        | Prop    |          |

**IDS No.:** 3273      **Rev.:** 4      **IC Date:** 04/14/2015

**Modifier:** Hartzell Propeller Inc.  
**Engine Model:** TAE 125-02-99 (diesel)  
**Power:** 135 HP @ 2300 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:**  
**Feather/High Angle:** 31.0 +/- 1.0  
**Cwt Angle:**

**Non-HPI Governor:**



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CESSNA

**Model:** 172, 175  
**Trade Name:** SKYHAWK  
**Aircraft T.C./STC:** STC-SA610SW  
**Propeller Model:** HC-82XL-2, HC-A2XL-2  
**Propeller T.C.:**  
**Blade Model(s):** 7636-4  
7636D-4  
**Prop Diameter:** 72.2"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:**  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u> | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|--------------------|-----------------|----------------|-----------------|
| BLADE            | 7636-4             | BLADE              | 2               | Prop           |                 |
| BLADE            | 7636D-4            | BLADE              | 2               | Prop           |                 |

**IDS No.:** 2136      **Rev.:** -      **DM Date:** 11/20/2003

**Modifier:** RFB COMPANY  
**Engine Model:** O-320  
**Power:** 160 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:**  
**Cwt Angle:** Positive

**Non-HPI Governor:**

CESSNA

**Model:** 172, 175  
**Trade Name:** SKYHAWK  
**Aircraft T.C./STC:** STC-SA610SW  
**Propeller Model:** not procurable  
**Propeller T.C.:**  
**Blade Model(s):**  
**Prop Diameter:** 72.2"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:**  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

### Hartzell Approved Items:

**IDS No.:** 347      **Rev.:** -      **DM Date:** 05/13/1998

**Modifier:** RFB COMPANY  
**Engine Model:** O-320  
**Power:** 160 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:**  
**Cwt Angle:** Positive

**Non-HPI Governor:**

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**CESSNA**

**Model:** 172, 175  
**Trade Name:** SKYHAWK  
**Aircraft T.C./STC:** STC-SA610SW  
**Propeller Model:** HC-82VL-2, HC-A2VL-2  
**Propeller T.C.:**  
**Blade Model(s):** V7636D-4  
V7636N-4  
**Prop Diameter:** 72.2"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:**  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type | Item Number | Description | Quantity | Qty Per | Comments |
|-----------|-------------|-------------|----------|---------|----------|
| BLADE     | V7636D-4    | BLADE       | 2        | Prop    |          |
| BLADE     | V7636N-4    | BLADE       | 2        | Prop    |          |

**IDS No.:** 2137      **Rev.:** -      **DM Date:** 11/20/2003

**Modifier:** RFB COMPANY  
**Engine Model:** O-320  
**Power:** 160 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:**  
**Cwt Angle:** Positive

**Non-HPI Governor:**

**CESSNA**

**Model:** 172, 175  
**Trade Name:** SKYHAWK  
**Aircraft T.C./STC:** STC-SA610SW  
**Propeller Model:** HC-92ZK-2B  
**Propeller T.C.:** P892  
**Blade Model(s):** 8447-12A  
8447N-12A  
**Prop Diameter:** 71.6"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** UNKNOWN  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number | Description                   | Quantity | Qty Per | Comments |
|---------------|-------------|-------------------------------|----------|---------|----------|
| BLADE         | 8447-12A    | BLADE UNIT, ALUMINUM          | 2        | Prop    |          |
| BLADE         | 8447N-12A   | PCP:BLADE UNIT, ALUMINUM      | 2        | Prop    |          |
| SPINNER       | 835-30      | SPINNER ASSEMBLY              | 1        | Prop    |          |
| MTG BOLT/STUD | A-1328      | BOLT,MOUNTING,1/2-20,12 POINT | 4        | Prop    |          |
| MTG BOLT/STUD | A-1333      | BOLT,MOUNTING,1/2-20,HEX HEAD | 2        | Prop    |          |

**IDS No.:** 348      **Rev.:** 1      **D Date:** 01/07/2011

**Modifier:** RFB COMPANY  
**Engine Model:** O-360  
**Power:** 180 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** UNKNOWN  
**Cwt Angle:** Positive

**Non-HPI Governor:**

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**CESSNA**

**Model:** 172, A, B, C, D, E, F, G, H  
**Trade Name:** SKYHAWK  
**Aircraft T.C./STC:** STC-SA420CE  
**Propeller Model:** HC-C2YR-1B  
**Propeller T.C.:** P-920

**Blade Model(s):** F7666-2  
**Prop Diameter:** 74"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** UNKNOWN  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number | Description            | Quantity | Qty Per | Comments |
|---------------|-------------|------------------------|----------|---------|----------|
| BLADE         | F7666-2     | IDS Item               | 2        | Prop    |          |
| SPINNER       | 835-33      | SPINNER ASSEMBLY       | 1        | Prop    |          |
| MTG BOLT/STUD | A-2067      | STUD, MOUNTING, 1/2-20 | 6        | Prop    |          |

**IDS No.:** 345      **Rev.:** -      **DM Date:** 10/12/2006

**Modifier:** MID AMERICAN STOL  
**Engine Model:** O-360-A1A, -A1D  
**Power:** 180 HP @ 2700 RPM  
**Placard/Restr:** Avoid continuous operation between 2000 and 2250 RPM.

**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** UNKNOWN  
**Cwt Angle:**

**Non-HPI Governor:**

**CESSNA**

**Model:** 172, 172A-I, 172K-N, 172P  
**Trade Name:**  
**Aircraft T.C./STC:** SA02186AK  
**Propeller Model:** HC-C2YR-1BF  
**Propeller T.C.:** P-920  
**Blade Model(s):** F8477-4  
**Prop Diameter:** 80" TO 78"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 10.0+-0.2  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number    | Description                    | Quantity | Qty Per | Comments                 |
|---------------|----------------|--------------------------------|----------|---------|--------------------------|
| PROPELLER     | C2R00074       | HC-C2YR-1BF/F8477-4/SM16/C1576 | 1        | A/C     |                          |
| PROPELLER     | C2R00074STP    | C2R00074/SM16/C-3568-P/C-1576  | 1        | A/C     |                          |
| BLADE         | F8477-4        | PCP:BLADE UNIT, ALUM [1,1,1]   | 2        | Prop    |                          |
| SPINNER       | 835-23         | SPINNER ASSEMBLY               | 1        | Prop    | Alternate                |
| SPINNER       | 835-23P        | SPINNER ASSEMBLY               | 1        | Prop    | Alternate                |
| SPINNER       | C-3568         | SPINNER ASSEMBLY               | 1        | Prop    |                          |
| SPINNER       | C-3568-P       | SPINNER ASSEMBLY               | 1        | Prop    |                          |
| SPIN MTG KIT  | A-2476-16      | SPINNER - MTG KIT              | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2067         | STUD, MOUNTING, 1/2-20         | 6        | Prop    |                          |
| DAMPER        | C-1576         | DAMPER ASSEMBLY                | 1        | Prop    |                          |
| OVERHAUL KIT  | HC-C2YR-1BF-OH | O/H KIT                        | 1        | Prop    | For aftermarket use only |

**IDS No.:** 1877      **Rev.:** 2      **IC Date:** 07/07/2015

**Modifier:** HARTZELL PROPELLER  
**Engine Model:** O-360-()()()  
**Power:** 180 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:** Must use C-1576 damper assembly

**Startlock Angle:** NA  
**Feather/High Angle:** 30.9+-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

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**CESSNA**

**Model:** 172, 172(A-P)  
**Trade Name:**  
**Aircraft T.C./STC:** SA02155AK  
**Propeller Model:** HC-C2YR-1BF  
**Propeller T.C.:** P-920  
**Blade Model(s):** F8477-4  
**Prop Diameter:** 80" TO 78"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 10.0+-0.2  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number    | Description                    | Quantity | Qty Per | Comments                 |
|---------------|----------------|--------------------------------|----------|---------|--------------------------|
| PROPELLER     | C2R00077       | HC-C2YR-1BF/F8477-4/SM16/C1576 | 1        | A/C     |                          |
| BLADE         | F8477-4        | PCP:BLADE UNIT, ALUM [1,1,1]   | 2        | Prop    |                          |
| SPINNER       | C-3568         | SPINNER ASSEMBLY               | 1        | Prop    |                          |
| SPINNER       | C-3568-P       | SPINNER ASSEMBLY               | 1        | Prop    |                          |
| SPIN MTG KIT  | A-2476-16      | SPINNER - MTG KIT              | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2067         | STUD, MOUNTING, 1/2-20         | 6        | Prop    |                          |
| DAMPER        | C-1576         | DAMPER ASSEMBLY                | 1        | Prop    |                          |
| OVERHAUL KIT  | HC-C2YR-1BF-OH | O/H KIT                        | 1        | Prop    | For aftermarket use only |

**IDS No.:** 2458      **Rev.:** 1      **IC Date:** 07/07/2015

**Modifier:** DAVID A. STOOTS  
**Engine Model:** O-360-( ) ( )  
**Power:** 180 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:** Must use C-1576 damper assembly

**Startlock Angle:** NA  
**Feather/High Angle:** 30.9+-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

**CESSNA**

**Model:** 172A-N  
**Trade Name:** SKYHAWK  
**Aircraft T.C./STC:** STC-SA87NW  
**Propeller Model:** HC-C2YK-1BF  
**Propeller T.C.:** P-920  
  
**Blade Model(s):** F7666A  
**Prop Diameter:** 76"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 11.0 +-0.1  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number    | Description                  | Quantity | Qty Per | Comments                 |
|---------------|----------------|------------------------------|----------|---------|--------------------------|
| PROPELLER     | C2K00009       | HC-C2YK-1BF/F7666A           | 1        | A/C     |                          |
| BLADE         | F7666A         | PCP:BLADE UNIT, ALUM [1,1,1] | 2        | Prop    |                          |
| SPINNER       | 835-33         | SPINNER ASSEMBLY             | 1        | Prop    |                          |
| SPINNER       | 835-33P        | SPINNER ASSEMBLY             | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2067         | STUD, MOUNTING, 1/2-20       | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-C2YK-1BF-OH | O/H KIT                      | 1        | Prop    | For aftermarket use only |

**IDS No.:** 350      **Rev.:** 1      **IC Date:** 07/07/2015

**Modifier:** KENMORE AIR HARBOR  
**Engine Model:** O-360-A1A  
**Power:** 180 HP @ 2700 RPM  
**Placard/Restr:** Avoid continuous operation between 2000 and 2250 RPM.

**Notes:**  
**Startlock Angle:** NA  
**Feather/High Angle:** 29.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

# HARTZELL

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CESSNA

**Model:** 172I, K, L, M, N  
**Trade Name:** SKYHAWK  
**Aircraft T.C./STC:** STC-SA647CE  
**Propeller Model:** HC-C2YR-1B(F)  
**Propeller T.C.:** P-920

**Blade Model(s):** F7666  
 F7666A  
 F7666A-2

**Prop Diameter:** 76.0" TO 72.5"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 14.0 +-0.2  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 1666      **Rev.:** -      **DM Date:** 08/26/2006

**Modifier:** ROBERT WILLIAMS (AVCON)

**Engine Model:** O-360-A1A

**Power:** 180 HP @ 2700 RPM

**Placard/Restr:** Avoid continuous operation between 2000 and 2250 RPM

**Notes:** IBF and F before blade model

**Startlock Angle:** NA

**Feather/High Angle:** 29.0 +-0.5

**Cwt Angle:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>           | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|------------------------------|-----------------|----------------|-----------------|
| BLADE            | F7666              | IDS Item                     | 2               | Prop           |                 |
| BLADE            | F7666A             | PCP:BLADE UNIT, ALUM [1,1,1] | 2               | Prop           |                 |
| BLADE            | F7666A-2           | PCP:BLADE UNIT, ALUMINUM     | 2               | Prop           |                 |
| SPINNER          | 835-21P            | SPINNER ASSEMBLY             | 1               | Prop           |                 |
| SPINNER          | 835-23             | SPINNER ASSEMBLY             | 1               | Prop           |                 |
| SPINNER          | 835-33             | SPINNER ASSEMBLY             | 1               | Prop           |                 |
| GOVERNOR         | F3-1               | IDS Item                     | 1               | A/C            |                 |
| GOVERNOR         | F3-1A              | GOVERNOR ASSEMBLY, F-3-( )   | 1               | A/C            |                 |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20       | 6               | Prop           |                 |

# HARTZELL

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CESSNA

IDS No.: 349 Rev.: 1 IC Date: 07/07/2015

**Model:** 172I, K, L, M, N  
**Trade Name:** SKYHAWK  
**Aircraft T.C./STC:** STC-SA647CE  
**Propeller Model:** HC-C2YR-1B(F)  
**Propeller T.C.:** P-920

**Modifier:** ROBERT WILLIAMS (AVCON)  
**Engine Model:** O-360-A1A  
**Power:** 180 HP @ 2700 RPM  
**Placard/Restr:** Avoid continuous operation between 2000 and 2250 RPM

**Blade Model(s):** F7666A-2  
**Prop Diameter:** 76.0" TO 72.5"

**Notes:** STC permits use of Non-F pitch change knob configuration. All new manufactured propellers will be 1BF/F configuration.

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 14.0 +-0.2  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 29.0 +-2.0  
**Cwt Angle:**

### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>         | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|----------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | C2R00025           | HC-C2YR-1BF/F7666A-2       | 1               | A/C            |                          |
| BLADE            | F7666A-2           | PCP:BLADE UNIT, ALUMINUM   | 2               | Prop           |                          |
| SPINNER          | 835-21P            | SPINNER ASSEMBLY           | 1               | Prop           |                          |
| SPINNER          | 835-23             | SPINNER ASSEMBLY           | 1               | Prop           |                          |
| SPINNER          | 835-33             | SPINNER ASSEMBLY           | 1               | Prop           |                          |
| GOVERNOR         | F3-1               | IDS Item                   | 1               | A/C            |                          |
| GOVERNOR         | F3-1A              | GOVERNOR ASSEMBLY, F-3-( ) | 1               | A/C            |                          |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20     | 6               | Prop           |                          |
| OVERHAUL KIT     | HC-C2YR-1BF-OH     | O/H KIT                    | 1               | Prop           | For aftermarket use only |

# HARTZELL

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CESSNA

IDS No.: 2509 Rev.: 3 IC Date: 11/24/2020

**Model:** R172K  
**Trade Name:** HAWK XP  
**Aircraft T.C./STC:** STC SA02078CH  
**Propeller Model:** HC-C3YF-1RF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** F7392\*2  
**Prop Diameter:** 75 to 73

**Modifier:** HARTZELL PROPELLER  
**Engine Model:** IO-360-K, -KB  
**Power:** 195 HP @ 2600 RPM  
**Placard/Restr:**  
**Notes:**

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** 13.6 +-0.2  
**Stud Protrusion** 1.120 +-0.030

**Startlock Angle:**  
**Feather/High Angle:** 35.0 +-1.0  
**Cwt Angle:**

### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>           | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|------------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | C3F00067           | HC-C3YF-1RF/F7392[*2]/SM9    | 1               | A/C            |                          |
| PROPELLER        | C3F00067KD         | HC-C3YF-1RF/F7392[*2]/SM9    | 1               | A/C            |                          |
| PROPELLER        | C3F00067SKDTP      | C3F00067/SM9/A-2295-1P       | 1               | A/C            |                          |
| PROPELLER        | C3F00067STP        | C3F00067/SM9/A-2295-1P       | 1               | A/C            |                          |
| BLADE            | F7392*2            | PCP:BLADE UNIT, ALUM [6,1,1] | 3               | Prop           |                          |
| SPINNER          | A-2295-1P          | SPINNER ASSEMBLY             | 1               | A/C            |                          |
| SPIN MTG KIT     | A-2476-9           | SPINNER - MTG KIT            | 1               | Prop           |                          |
| MTG BOLT/STUD    | A-2429-3           | STUD, MOUNTING, 1/2-20       | 6               | Prop           | Shorter Stud             |
| OVERHAUL KIT     | HC-C3YF-1RF-OH     | O/H KIT                      | 1               | Prop           | For aftermarket use only |

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**CESSNA**

**Model:** R172K  
**Trade Name:** HAWK XP  
**Aircraft T.C./STC:** STC SA02078CH  
**Propeller Model:** HC-C3YF-1RF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** F7392\*2  
**Prop Diameter:** 75 to 73

**IDS No.:** 2540      **Rev.:** 3      **IC Date:** 11/24/2020

**Modifier:** HARTZELL PROPELLER  
**Engine Model:** IO-360-KC, -KBC  
**Power:** 210 HP @ 2800 RPM  
**Placard/Restr:**

**Notes:** Engine installation per Isham STC SA1437CE

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** 12.2 +-0.2  
**Stud Protrusion** 1.120 +-0.030

**Startlock Angle:**  
**Feather/High Angle:** 35.0 +-1.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type     | Item Number    | Description                  | Quantity | Qty Per | Comments                 |
|---------------|----------------|------------------------------|----------|---------|--------------------------|
| PROPELLER     | C3F00069       | HC-C3YF-1RF/F7392[*2]/SM9    | 1        | A/C     |                          |
| PROPELLER     | C3F00069KD     | HC-C3YF-1RF/F7392[*2]/SM9    | 1        | A/C     |                          |
| PROPELLER     | C3F00069SKDTP  | C3F00069/SM9/A-2295-1P       | 1        | A/C     |                          |
| PROPELLER     | C3F00069STP    | C3F00069/SM9/A-2295-1P       | 1        | A/C     |                          |
| BLADE         | F7392*2        | PCP:BLADE UNIT, ALUM [6,1,1] | 3        | Prop    |                          |
| SPINNER       | A-2295-1P      | SPINNER ASSEMBLY             | 1        | A/C     |                          |
| SPIN MTG KIT  | A-2476-9       | SPINNER - MTG KIT            | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2429-3       | STUD, MOUNTING, 1/2-20       | 6        | Prop    | Shorter Stud             |
| OVERHAUL KIT  | HC-C3YF-1RF-OH | O/H KIT                      | 1        | Prop    | For aftermarket use only |

**CESSNA**

**Model:** 175  
**Trade Name:**  
**Aircraft T.C./STC:** STC-SA3-674  
**Propeller Model:** HC-C2YK-1BF  
**Propeller T.C.:** P-920

**IDS No.:** 354      **Rev.:** -      **DM Date:** 10/12/2006

**Modifier:** KWAD CO.  
**Engine Model:** O-360-A1D  
**Power:** 180 HP @ 2700 RPM  
**Placard/Restr:** Avoid continuous operation between 2000 and 2250 RPM.

**Blade Model(s):** F7666A-2  
**Prop Diameter:** 74"

**Notes:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 14.0 +-0.2  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 27.0 +-2.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type     | Item Number | Description                | Quantity | Qty Per | Comments |
|---------------|-------------|----------------------------|----------|---------|----------|
| BLADE         | F7666A-2    | PCP:BLADE UNIT, ALUMINUM   | 2        | Prop    |          |
| SPINNER       | 835-20      | IDS Item                   | 1        | Prop    |          |
| GOVERNOR      | F3-2        | GOVERNOR ASSEMBLY, F-3-( ) | 1        | A/C     |          |
| MTG BOLT/STUD | A-2067      | STUD, MOUNTING, 1/2-20     | 6        | Prop    |          |



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**CESSNA**

**Model:** 175, 175A  
**Trade Name:**  
**Aircraft T.C./STC:** STC-SA424CE  
**Propeller Model:** HC-92ZK-8D  
**Propeller T.C.:** P892  
**Blade Model(s):** 8447-12A  
 8447N-12A  
**Prop Diameter:** 72"-70.5"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.0 +/- 0.2  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>               | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>             |
|------------------|--------------------|----------------------------------|-----------------|----------------|-----------------------------|
| BLADE            | 8447-12A           | BLADE UNIT, ALUMINUM             | 2               | Prop           |                             |
| BLADE            | 8447N-12A          | PCP:BLADE UNIT, ALUMINUM         | 2               | Prop           |                             |
| SPINNER          | 835-6              | IDS Item                         | 1               | Prop           | Inactive for new production |
| SPINNER          | 835-6P             | IDS Item                         | 1               | Prop           | Inactive for new production |
| GOVERNOR         | D1-1               | IDS Item                         | 1               | Prop           | Inactive for new production |
| GOVERNOR         | D1-5               | IDS Item                         | 1               | Prop           | Inactive for new production |
| MTG BOLT/STUD    | A-1333             | BOLT, MOUNTING, 1/2-20, HEX HEAD | 4               | Prop           |                             |
| MTG BOLT/STUD    | A-1333-2           | IDS Item                         | 2               | Prop           |                             |

**IDS No.:** 356      **Rev.:** 1      **IC Date:** 11/29/2016

**Modifier:** ROBERT WILLIAMS  
**Engine Model:** O-360-A1D, -A1A  
**Power:** 180 HP @ 2700 RPM  
**Placard/Restr:** none

**Notes:** Mounting bolts (2 EA) A-1333-2 OR -6 plus (4 EA) A-1333

**Startlock Angle:** NA  
**Feather/High Angle:** 27.0 +/- 1.0  
**Cwt Angle:** Positive

**Non-HPI Governor:**

# HARTZELL

## APPLICATION GUIDE

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CESSNA

**Model:** 175, 175A  
**Trade Name:**  
**Aircraft T.C./STC:** STC-SA424CE  
**Propeller Model:** HC-C2YK-1A, -1B(F)  
**Propeller T.C.:** P-920

**Blade Model(s):** F7666-2  
 F7666A-2

**Prop Diameter:** 74"-72"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 14.0 +/- 0.2  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

### Hartzell Approved Items:

| Item Type     | Item Number | Description                | Quantity | Qty Per | Comments                    |
|---------------|-------------|----------------------------|----------|---------|-----------------------------|
| PROPELLER     | C2K00029    | HC-C2YK-1BF/F7666A-2       | 1        | A/C     |                             |
| BLADE         | F7666-2     | IDS Item                   | 2        | Prop    |                             |
| BLADE         | F7666A-2    | PCP:BLADE UNIT, ALUMINUM   | 2        | Prop    |                             |
| SPINNER       | 835-21P     | SPINNER ASSEMBLY           | 1        | Prop    |                             |
| GOVERNOR      | F3-1        | IDS Item                   | 1        | A/C     | Inactive for new production |
| GOVERNOR      | F3-1A       | GOVERNOR ASSEMBLY, F-3-( ) | 1        | A/C     |                             |
| MTG BOLT/STUD | A-2067      | STUD, MOUNTING, 1/2-20     | 6        | Prop    |                             |

**IDS No.:** 355 **Rev.:** 2 **IC Date:** 03/01/2021

**Modifier:** BARBARA OR BOB WILLIAMS

**Engine Model:** O-360-A1D, -A1A

**Power:** 180 HP @ 2700 RPM

**Placard/Restr:** Avoid continuous operation between 2000 and 2250 RPM.

**Notes:**

**Startlock Angle:** NA

**Feather/High Angle:** 29.0+/-1.0

**Cwt Angle:**

**Non-HPI Governor:**

CESSNA

**Model:** 175, 175A, 175B, 175C  
**Trade Name:**  
**Aircraft T.C./STC:** STC-SA777CE  
**Propeller Model:** HC-C2YK-1BF  
**Propeller T.C.:** P-920

**Blade Model(s):** F7666A-2  
**Prop Diameter:** 74"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 14.0 +/-0.1  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:** AVCON

### Hartzell Approved Items:

| Item Type     | Item Number    | Description                | Quantity | Qty Per | Comments                 |
|---------------|----------------|----------------------------|----------|---------|--------------------------|
| PROPELLER     | C2K00045       | HC-C2YK-1BF/F7666A-2       | 1        | A/C     |                          |
| BLADE         | F7666A-2       | PCP:BLADE UNIT, ALUMINUM   | 2        | Prop    |                          |
| GOVERNOR      | F2-8A          | GOVERNOR ASSEMBLY, F-2-( ) | 1        | A/C     |                          |
| GOVERNOR      | F3-1           | IDS Item                   | 1        | A/C     |                          |
| GOVERNOR      | F3-1A          | GOVERNOR ASSEMBLY, F-3-( ) | 1        | A/C     |                          |
| MTG BOLT/STUD | A-2067         | STUD, MOUNTING, 1/2-20     | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-C2YK-1BF-OH | O/H KIT                    | 1        | Prop    | For aftermarket use only |

**IDS No.:** 357 **Rev.:** 1 **IC Date:** 07/07/2015

**Modifier:** ROBERT WILLIAMS (AVCON)

**Engine Model:** O-360-A1A

**Power:** 180 HP @ 2700 RPM

**Placard/Restr:** Avoid continuous operation between 2000 and 2250 RPM

**Notes:**

**Startlock Angle:** NA

**Feather/High Angle:** 29.0 +/-1.0

**Cwt Angle:**

**Non-HPI Governor:**

# HARTZELL

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CESSNA

IDS No.: 2459 Rev.: 1 IC Date: 07/07/2015

Model: 175, 175(A,B,C)  
 Trade Name:  
 Aircraft T.C./STC: SA02155AK  
 Propeller Model: HC-C2YR-1BF  
 Propeller T.C.: P-920  
 Blade Model(s): F8477-4  
 Prop Diameter: 80" TO 78"

Modifier: DAVID A. STOOTS  
 Engine Model: O-360-( ) ( )  
 Power: 180 HP @ 2700 RPM  
 Placard/Restr:

Notes: Must use C-1576 damper assembly

### Prop Setup:

Ref. Radius: 30  
 Reverse Angle: NA  
 Low Pitch Angle: 10.0+-0.2  
 Stud Protrusion

Startlock Angle: NA  
 Feather/High Angle: 30.9+-1.0  
 Cwt Angle:

### Non-HPI Items:

Non-HPI Spinner:

Non-HPI Governor:

### Hartzell Approved Items:

| Item Type     | Item Number    | Description                    | Quantity | Qty Per | Comments                 |
|---------------|----------------|--------------------------------|----------|---------|--------------------------|
| PROPELLER     | C2R00077       | HC-C2YR-1BF/F8477-4/SM16/C1576 | 1        | A/C     |                          |
| BLADE         | F8477-4        | PCP:BLADE UNIT, ALUM [1,1,1]   | 2        | Prop    |                          |
| SPINNER       | C-3568         | SPINNER ASSEMBLY               | 1        | Prop    |                          |
| SPINNER       | C-3568-P       | SPINNER ASSEMBLY               | 1        | Prop    |                          |
| SPIN MTG KIT  | A-2476-16      | SPINNER - MTG KIT              | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2067         | STUD, MOUNTING, 1/2-20         | 6        | Prop    |                          |
| DAMPER        | C-1576         | DAMPER ASSEMBLY                | 1        | Prop    |                          |
| OVERHAUL KIT  | HC-C2YR-1BF-OH | O/H KIT                        | 1        | Prop    | For aftermarket use only |

# HARTZELL

## APPLICATION GUIDE 159

CESSNA

IDS No.: 1878      Rev.: 2      IC      Date: 07/07/2015

**Model:** 175, 175A-C  
**Trade Name:**  
**Aircraft T.C./STC:** SA02186AK  
**Propeller Model:** HC-C2YR-1BF  
**Propeller T.C.:** P-920  
**Blade Model(s):** F8477-4  
**Prop Diameter:** 80" TO 78"

**Modifier:** HARTZELL PROPELLER  
**Engine Model:** O-360-()()()  
**Power:** 180 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:** Must use C-1576 damper assembly

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 10.0+-0.2  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 30.9+-1.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>             | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|--------------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | C2R00074           | HC-C2YR-1BF/F8477-4/SM16/C1576 | 1               | A/C            |                          |
| BLADE            | F8477-4            | PCP:BLADE UNIT, ALUM [1,1,1]   | 2               | Prop           |                          |
| SPINNER          | 835-23             | SPINNER ASSEMBLY               | 1               | Prop           | Alternate                |
| SPINNER          | 835-23P            | SPINNER ASSEMBLY               | 1               | Prop           | Alternate                |
| SPINNER          | C-3568             | SPINNER ASSEMBLY               | 1               | Prop           |                          |
| SPINNER          | C-3568-P           | SPINNER ASSEMBLY               | 1               | Prop           |                          |
| SPIN MTG KIT     | A-2476-16          | SPINNER - MTG KIT              | 1               | Prop           |                          |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20         | 6               | Prop           |                          |
| DAMPER           | C-1576             | DAMPER ASSEMBLY                | 1               | Prop           |                          |
| OVERHAUL KIT     | HC-C2YR-1BF-OH     | O/H KIT                        | 1               | Prop           | For aftermarket use only |

# HARTZELL

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**CESSNA**

**Model:** 177  
**Trade Name:** CARDINAL  
**Aircraft T.C./STC:** STC-SA906CE  
**Propeller Model:** HC-C2YK-1BF  
**Propeller T.C.:** P-920

**Blade Model(s):** F7666A-2  
**Prop Diameter:** 74" TO 72"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 14.0 +-0.1  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:** CUSTOMER SUPPLIED

**Hartzell Approved Items:**

| Item Type     | Item Number    | Description                | Quantity | Qty Per | Comments                 |
|---------------|----------------|----------------------------|----------|---------|--------------------------|
| PROPELLER     | C2K00045       | HC-C2YK-1BF/F7666A-2       | 1        | A/C     |                          |
| BLADE         | F7666A-2       | PCP:BLADE UNIT, ALUMINUM   | 2        | Prop    |                          |
| GOVERNOR      | F3-1           | IDS Item                   | 1        | A/C     |                          |
| GOVERNOR      | F3-2           | GOVERNOR ASSEMBLY, F-3-( ) | 1        | A/C     |                          |
| GOVERNOR      | F3-2A          | IDS Item                   | 1        | A/C     |                          |
| MTG BOLT/STUD | A-2067         | STUD, MOUNTING, 1/2-20     | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-C2YK-1BF-OH | O/H KIT                    | 1        | Prop    | For aftermarket use only |

**IDS No.:** 363      **Rev.:** 1      **IC Date:** 07/07/2015

**Modifier:** ROBERT WILLIAMS (AVCON)  
**Engine Model:** O-360-A1A  
**Power:** 180 HP @ 2700 RPM  
**Placard/Restr:** Avoid continuous operation between 2000 and 2250 RPM

**Notes:** Applicable only to aircraft S/N 661, 17700001, 1700003 through 17701164

**Startlock Angle:** NA  
**Feather/High Angle:** 29.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

**CESSNA**

**Model:** 177  
**Trade Name:** CARDINAL  
**Aircraft T.C./STC:** STC-SA2508WE  
**Propeller Model:** HC-C2YR-1BF  
**Propeller T.C.:** P-920

**Blade Model(s):** F7666A-2  
**Prop Diameter:** 74" TO 72"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.0 +-0.1  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:** CUSTOMER SUPPLIED

**Hartzell Approved Items:**

| Item Type     | Item Number | Description                | Quantity | Qty Per | Comments |
|---------------|-------------|----------------------------|----------|---------|----------|
| BLADE         | F7666A-2    | PCP:BLADE UNIT, ALUMINUM   | 2        | Prop    |          |
| GOVERNOR      | H1          | GOVERNOR ASSEMBLY, H-1-( ) | 1        | A/C     |          |
| MTG BOLT/STUD | A-2067      | STUD, MOUNTING, 1/2-20     | 6        | Prop    |          |

**IDS No.:** 360      **Rev.:** -      **DM Date:** 08/26/2006

**Modifier:** HOLIDAY AERO  
**Engine Model:** O-360-A1D  
**Power:** 180 HP @ 2700 RPM  
**Placard/Restr:** Avoid continuous operation between 2000 and 2250 RPM

**Notes:**  
**Startlock Angle:** NA  
**Feather/High Angle:** 29.0 +-2.0  
**Cwt Angle:**

**Non-HPI Governor:**

# HARTZELL

CESSNA

**Model:** 177  
**Trade Name:** CARDINAL  
**Aircraft T.C./STC:** STC-SA545CE  
**Propeller Model:** HC-C2YR-1B  
**Propeller T.C.:** P-920

**Blade Model(s):** F7666A-2  
**Prop Diameter:** 74"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** UNKNOWN  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:** CUSTOMER SUPPLIED

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>       | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|--------------------------|-----------------|----------------|-----------------|
| BLADE            | F7666A-2           | PCP:BLADE UNIT, ALUMINUM | 2               | Prop           |                 |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20   | 6               | Prop           |                 |

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**IDS No.:** 361      **Rev.:** -      **DM Date:** 08/26/2006

**Modifier:** ROBERT WILLIAMS  
**Engine Model:** O-360-A1A  
**Power:** 180 HP @ 2700 RPM  
**Placard/Restr:** Avoid continuous operation between 2000 and 2250 RPM

### **Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** UNKNOWN  
**Cwt Angle:**

**Non-HPI Governor:**

# HARTZELL

## APPLICATION GUIDE

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CESSNA

IDS No.: 358      Rev.: 3      IC      Date: 07/16/2015

**Model:** 177B  
**Trade Name:** CARDINAL  
**Aircraft T.C./STC:** STC-SA1556GL  
**Propeller Model:** HC-C3YR-1RF  
**Propeller T.C.:** P25EA

**Modifier:** HARTZELL PROPELLER  
**Engine Model:** O-360-A1F6(D)  
**Power:** 180 HP @ 2700 RPM  
**Placard/Restr:** Refer to 8110-3, TC and STC for further information.

**Blade Model(s):** F7282  
 F7282\*1  
**Prop Diameter:** 74.0" TO 73.0"

**Notes:** Use spinner mounting kit only when listed on order

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 11.8 +/-0.1  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 30.0 +/- 0.5  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>       | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|--------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | C3R00021           | HC-C3YR-1RF/F7282        | 1               | A/C            |                          |
| PROPELLER        | C3R00021KD         | HC-C3YR-1RF/F7282        | 1               | A/C            |                          |
| PROPELLER        | C3R00021SKDTP      | C3R00021/SM7/C-4582-P    | 1               | A/C            |                          |
| PROPELLER        | C3R00021STP        | C3R00021/SM7/C-4582-P    | 1               | A/C            |                          |
| BLADE            | F7282              | PCP:BLADE UNIT, ALUMINUM | 3               | Prop           |                          |
| BLADE            | F7282*1            | IDS Item                 | 3               | Prop           |                          |
| SPINNER          | A-2295-1           | SPINNER ASSEMBLY         | 1               | Prop           |                          |
| SPINNER          | A-2295-1P          | SPINNER ASSEMBLY         | 1               | Prop           |                          |
| SPINNER          | C-4582             | SPINNER ASSEMBLY         | 1               | Prop           |                          |
| SPINNER          | C-4582-P           | SPINNER ASSEMBLY         | 1               | Prop           |                          |
| SPIN MTG KIT     | A-2476-7           | SPINNER - MTG KIT        | 1               | Prop           |                          |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20   | 6               | Prop           |                          |
| OVERHAUL KIT     | HC-C3YR-1RF-OH     | O/H KIT                  | 1               | Prop           | For aftermarket use only |

# HARTZELL

## APPLICATION GUIDE

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CESSNA

IDS No.: 1080 Rev.: 2 IC Date: 07/16/2015

**Model:** 177RG, F177RG  
**Trade Name:** CARDINAL  
**Aircraft T.C./STC:** STC-SA1556GL  
**Propeller Model:** HC-C3YR-1RF  
**Propeller T.C.:** P25EA

**Modifier:** HARTZELL PROPELLER  
**Engine Model:** IO-360-A1B6(D)  
**Power:** 200 HP @ 2700 RPM  
**Placard/Restr:** Refer to 8110-3, TC and STC for further information.

**Blade Model(s):** F7282  
**Prop Diameter:** 74.0" TO 73.0"

**Notes:** 177RG TC# is A20CE, F177RG TC# is A26EU

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.5 +/-0.1  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 30.0 +/-0.5  
**Cwt Angle:**

### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| Item Type     | Item Number    | Description              | Quantity | Qty Per | Comments                 |
|---------------|----------------|--------------------------|----------|---------|--------------------------|
| PROPELLER     | C3R00022       | HC-C3YR-1RF/F7282        | 1        | A/C     |                          |
| PROPELLER     | C3R00022KD     | HC-C3YR-1RF/F7282        | 1        | A/C     |                          |
| PROPELLER     | C3R00022SKDTP  | C3R00022/SM7/C-4582-P    | 1        | A/C     |                          |
| PROPELLER     | C3R00022STP    | C3R00022/SM7/C-4582-P    | 1        | A/C     |                          |
| BLADE         | F7282          | PCP:BLADE UNIT, ALUMINUM | 3        | Prop    |                          |
| SPINNER       | A-2295-1       | SPINNER ASSEMBLY         | 1        | Prop    |                          |
| SPINNER       | A-2295-1P      | SPINNER ASSEMBLY         | 1        | Prop    |                          |
| SPINNER       | C-4582         | SPINNER ASSEMBLY         | 1        | Prop    |                          |
| SPINNER       | C-4582-P       | SPINNER ASSEMBLY         | 1        | Prop    |                          |
| SPIN MTG KIT  | A-2476-7       | SPINNER - MTG KIT        | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2067         | STUD, MOUNTING, 1/2-20   | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-C3YR-1RF-OH | O/H KIT                  | 1        | Prop    | For aftermarket use only |



# HARTZELL

## APPLICATION GUIDE 159

CESSNA

IDS No.: 2850 Rev.: 2 IC Date: 05/07/2020

Model: 180(), 182()  
 Trade Name:  
 Aircraft T.C./STC: SA02278AK  
 Propeller Model: **PHC-G3YF-1RF**  
 Propeller T.C.: P55GL  
 Blade Model(s): F8068  
 F8068+2  
 Prop Diameter: 84" to 78"

Modifier: P. PONK  
 Engine Model: (I)O-550-D, O-470-K,-L,-R,-S,-U,-50  
 Power: 300 HP @ 2700 RPM  
 Placard/Restr: None  
 Notes:

**Prop Setup:**

Ref. Radius: 30  
 Reverse Angle: NA  
 Low Pitch Angle: 11.5 +-1.0  
 Stud Protrusion 1.450 +-0.030

Startlock Angle: NA  
 Feather/High Angle: 36.0 +-1.0  
 Cwt Angle:

**Non-HPI Items:**

Non-HPI Spinner:

Non-HPI Governor:

**Hartzell Approved Items:**

| Item Type     | Item Number     | Description                  | Quantity | Qty Per | Comments                 |
|---------------|-----------------|------------------------------|----------|---------|--------------------------|
| PROPELLER     | G3F00800        | PHC-G3YF-1RF/F8068/SM7       | 1        | A/C     |                          |
| PROPELLER     | G3F00800KD      | PHC-G3YF-1RF/F8068/SM7       | 1        | A/C     |                          |
| PROPELLER     | G3F00850        | PHC-G3YF-1RF/F8068+2/SM7     | 1        | A/C     |                          |
| PROPELLER     | G3F00850KD      | PHC-G3YF-1RF/F8068+2/SM7     | 1        | A/C     |                          |
| BLADE         | F8068           | PCP:BLADE UNIT, ALUM [1,1,5] | 3        | Prop    |                          |
| BLADE         | F8068+2         | PCP:BLADE UNIT, ALUM [1,1,5] | 3        | Prop    |                          |
| SPINNER       | C-4582-P        | SPINNER ASSEMBLY             | 1        | Prop    | Used on 182H thru 182R   |
| SPINNER       | D-4798-1        | SPINNER ASSEMBLY             | 1        | Prop    | Used on 182 thru 182G    |
| SPINNER       | D-4798-1P       | SPINNER ASSEMBLY             | 1        | Prop    | Used on 182 thru 182G    |
| SPINNER       | D-4798-3        | SPINNER ASSEMBLY             | 1        | Prop    | Used on 182H thru 182R   |
| SPINNER       | D-4798-3P       | SPINNER ASSEMBLY             | 1        | Prop    | Used on 182H thru 182R   |
| SPIN MTG KIT  | A-2476-7        | SPINNER - MTG KIT            | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2429-4        | STUD, MOUNTING, 1/2-20       | 6        | Prop    |                          |
| OVERHAUL KIT  | PHC-G3YF-1RF-OH | O/H KIT                      | 1        | Prop    | For aftermarket use only |

# HARTZELL

## APPLICATION GUIDE 159

**CESSNA**

**IDS No.:** 2940      **Rev.:** -      **DM Date:** 03/05/2010

**Model:** 180, 182  
**Trade Name:** Skylane, Skywagon  
**Aircraft T.C./STC:** SA02735CH  
**Propeller Model:** HC-G3YF-1RF  
**Propeller T.C.:** P55GL  
**Blade Model(s):** F8068\*4  
**Prop Diameter:** 82" - 78"

**Modifier:** Vitatoe Aviation LLC  
**Engine Model:** IO-550-F  
**Power:** 285 HP @ 2700 RPM  
**Placard/Restr:**

**Notes:** Eligible on Texas Skyways STC's SA09132SC and SA09133SC.

**Prop Setup:**

**Ref. Radius:** 30"  
**Reverse Angle:**  
**Low Pitch Angle:** 12.3+/-0.2  
**Stud Protrusion** 1.450 +/-0.030

**Startlock Angle:**  
**Feather/High Angle:** 32.0+-1.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>            | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|-------------------------------|-----------------|----------------|-----------------|
| PROPELLER        | G3F00502           | HC-G3YF-1RF/F8068[*4]/SM25    | 1               | A/C            |                 |
| PROPELLER        | G3F00502KD         | HC-G3YF-1RF/F8068[*4]/SM25    | 1               | A/C            |                 |
| BLADE            | F8068*4            | PCP:BLADE UNIT, ALUM [6,16,5] | 3               | Prop           |                 |
| SPINNER          | C-4582             | SPINNER ASSEMBLY              | 1               | Prop           | Optional        |
| SPINNER          | C-4582-P           | SPINNER ASSEMBLY              | 1               | Prop           | Optional        |
| SPINNER          | D-5732-P           | SPINNER ASSEMBLY              | 1               | Prop           |                 |
| SPIN MTG KIT     | A-2476-25          | SPINNER - MTG KIT             | 1               | Prop           |                 |
| SPIN MTG KIT     | A-2476-7           | SPINNER - MTG KIT             | 1               | Prop           | Optional        |
| MTG BOLT/STUD    | A-2429-4           | STUD, MOUNTING, 1/2-20        | 6               | Prop           |                 |
| MTG BOLT/STUD    | A-2429-4           | STUD, MOUNTING, 1/2-20        | 6               | Prop           |                 |

# HARTZELL

## APPLICATION GUIDE

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CESSNA

**Model:** 180, 182  
**Trade Name:** Skylane, Skywagon  
**Aircraft T.C./STC:** SA02821CH  
**Propeller Model:** HC-G3YF-1RF  
**Propeller T.C.:** P55GL  
**Blade Model(s):** F8068\*4  
**Prop Diameter:** 82" - 78"

**Prop Setup:**

**Ref. Radius:** 30"  
**Reverse Angle:**  
**Low Pitch Angle:** 12.3+0.2  
**Stud Protrusion** 1.450 +/-0.030

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number | Description                   | Quantity | Qty Per | Comments |
|---------------|-------------|-------------------------------|----------|---------|----------|
| PROPELLER     | G3F00502    | HC-G3YF-1RF/F8068[*4]/SM25    | 1        | A/C     |          |
| PROPELLER     | G3F00502KD  | HC-G3YF-1RF/F8068[*4]/SM25    | 1        | A/C     |          |
| BLADE         | F8068*4     | PCP:BLADE UNIT, ALUM [6,16,5] | 3        | Prop    |          |
| SPINNER       | C-4582      | SPINNER ASSEMBLY              | 1        | Prop    | Optional |
| SPINNER       | C-4582-P    | SPINNER ASSEMBLY              | 1        | Prop    | Optional |
| SPINNER       | D-5732-P    | SPINNER ASSEMBLY              | 1        | Prop    |          |
| SPIN MTG KIT  | A-2476-25   | SPINNER - MTG KIT             | 1        | Prop    |          |
| SPIN MTG KIT  | A-2476-7    | SPINNER - MTG KIT             | 1        | Prop    | Optional |
| MTG BOLT/STUD | A-2429-4    | STUD, MOUNTING, 1/2-20        | 6        | Prop    |          |

**IDS No.:** 3004      **Rev.:** 1      **BC Date:** 07/25/2014

**Modifier:** Hartzell Propeller  
**Engine Model:** IO-550-F  
**Power:** 285 HP @ 2700 RPM  
**Placard/Restr:**

**Notes:** Eligible on Texas Skyways STC's SA09132SC and SA09133SC.

**Startlock Angle:**  
**Feather/High Angle:** 32.0+-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

CESSNA

**Model:** 180  
**Trade Name:** SKYWAGON  
**Aircraft T.C./STC:** 5A6  
**Propeller Model:** HC-82XF-1, HC-A2XF-1, HC-82XF-1A, HC-A2XF-1A  
**Propeller T.C.:** P24EA  
**Blade Model(s):**  
**Prop Diameter:** 8433; 84" to 82", 8833 NO CUT

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.0 +0.2  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:** CESSNA

**Hartzell Approved Items:**

| Item Type     | Item Number | Description                   | Quantity | Qty Per | Comments |
|---------------|-------------|-------------------------------|----------|---------|----------|
| SPINNER       | 835-13      | SPINNER ASSEMBLY              | 1        | Prop    |          |
| MTG BOLT/STUD | A-1328-1    | BOLT,MOUNTING,1/2-20,12 POINT | 6        | Prop    |          |

**IDS No.:** 2138      **Rev.:** -      **DM Date:** 11/20/2003

**Modifier:**  
**Engine Model:** O-470-A,-J(2550 rpm);-K(230 hp)  
**Power:** 225 HP @ 2600 RPM  
**Placard/Restr:**

**Notes:** WT 8833- 64 LBS

**Startlock Angle:** NA  
**Feather/High Angle:** 24.5 +-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:** WOODWARD

# HARTZELL

## APPLICATION GUIDE

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**CESSNA**

**Model:** 180  
**Trade Name:** SKYWAGON  
**Aircraft T.C./STC:** 5A6  
**Propeller Model:** HC-82VF-1, HC-A2VF-1, HC-82VF-1A, HC-A2VF-1A  
**Propeller T.C.:** P24EA  
**Blade Model(s):** V8833  
 V8833N  
**Prop Diameter:** 8433; 84" to 82", 8833 NO CUT

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.0 +-0.2  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:** CESSNA

**IDS No.:** 2139 **Rev.:** - **DM Date:** 11/20/2003

**Modifier:**  
**Engine Model:** O-470-A,-J(2550 rpm);-K(230 hp)  
**Power:** 225 HP @ 2600 RPM  
**Placard/Restr:**

**Notes:** WT 8833- 64 LBS

**Startlock Angle:** NA  
**Feather/High Angle:** 24.5 +-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:** WOODWARD

**Hartzell Approved Items:**

| Item Type     | Item Number | Description                   | Quantity | Qty Per | Comments |
|---------------|-------------|-------------------------------|----------|---------|----------|
| BLADE         | V8833       | BLADE UNIT                    | 2        | Prop    |          |
| BLADE         | V8833N      | BLADE UNIT                    | 2        | Prop    |          |
| SPINNER       | 835-13      | SPINNER ASSEMBLY              | 1        | Prop    |          |
| MTG BOLT/STUD | A-1328-1    | BOLT,MOUNTING,1/2-20,12 POINT | 6        | Prop    |          |

**CESSNA**

**Model:** 180  
**Trade Name:** SKYWAGON  
**Aircraft T.C./STC:** 5A6  
**Propeller Model:** HC-A2MVF-1A  
**Propeller T.C.:** P24EA  
**Blade Model(s):** MV8433N  
 MV8833N  
**Prop Diameter:** 8433; 84" to 82", 8833 NO CUT

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.0 +-0.2  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:** CESSNA

**IDS No.:** 364 **Rev.:** 2 **IC Date:** 07/06/2015

**Modifier:**  
**Engine Model:** O-470-A,-J(2550 rpm);-K(230 hp)  
**Power:** 225 HP @ 2600 RPM  
**Placard/Restr:**

**Notes:** Weight 8833- 64 lbs

**Startlock Angle:** NA  
**Feather/High Angle:** 24.5 +-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:** WOODWARD

**Hartzell Approved Items:**

| Item Type     | Item Number    | Description                   | Quantity | Qty Per | Comments                 |
|---------------|----------------|-------------------------------|----------|---------|--------------------------|
| PROPELLER     | A2F10020       | HC-A2MVF-1A/MV8833N           | 1        | A/C     |                          |
| PROPELLER     | A2F10021       | HC-A2MVF-1A/MV8433N           | 1        | A/C     |                          |
| BLADE         | MV8433N        | PCP:BLADE UNIT, ALUM [1,1,1]  | 2        | Prop    |                          |
| BLADE         | MV8833N        | PCP:BLADE UNIT, ALUM [1,1,1]  | 2        | Prop    |                          |
| SPINNER       | 835-13         | SPINNER ASSEMBLY              | 1        | Prop    |                          |
| MTG BOLT/STUD | A-1328-1       | BOLT,MOUNTING,1/2-20,12 POINT | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-A2MVF-1A-OH | O/H KIT                       | 1        | Prop    | For aftermarket use only |

# HARTZELL

## APPLICATION GUIDE

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CESSNA

IDS No.: 1624 Rev.: 3 IC Date: 07/16/2015

Model: 180  
 Trade Name:  
 Aircraft T.C./STC: SA00852AT  
 Propeller Model: PHC-C3YF-1RF  
 Propeller T.C.: P25EA  
 Blade Model(s): F7691  
 F7691\*1  
 Prop Diameter: 78.0" TO 77.0"

Modifier: HARTZELL PROPELLER  
 Engine Model: O-470-A,J,K,L,R,S  
 Power: 230 HP @ 2600 RPM  
 Placard/Restr:  
 Notes: Engine Ratings Note: O-470-A,J (225hp).  
 Approved for landplane operation only.

**Prop Setup:**

Ref. Radius: 30  
 Reverse Angle: NA  
 Low Pitch Angle: 12.5 +-0.1  
 Stud Protrusion 1.450 +-0.030

Startlock Angle: NA  
 Feather/High Angle: 31.0 +-1.0  
 Cwt Angle:

**Non-HPI Items:**

Non-HPI Spinner:

Non-HPI Governor:

**Hartzell Approved Items:**

| Item Type     | Item Number     | Description                  | Quantity | Qty Per | Comments                                   |
|---------------|-----------------|------------------------------|----------|---------|--|
| PROPELLER     | C3F00025        | PHC-C3YF-1RF/F7691/SM7       | 1        | A/C     |  |
| PROPELLER     | C3F00025KD      | PHC-C3YF-1RF/F7691/SM7       | 1        | A/C     |  |
| PROPELLER     | C3F00025SKDTP   | C3F00025/SM7/C-3535-1P       | 1        | A/C     |  |
| PROPELLER     | C3F00025STP     | C3F00025/SM7/C-3535-1P       | 1        | A/C     |  |
| BLADE         | F7691           | PCP:BLADE UNIT, ALUM [1,1,5] | 3        | Prop    |  |
| BLADE         | F7691*1         | PCP:BLADE UNIT, ALUM [3,1,5] | 3        | Prop    |  |
| SPINNER       | A-2295-1        | SPINNER ASSEMBLY             | 1        | Prop    |  |
| SPINNER       | A-2295-1P       | SPINNER ASSEMBLY             | 1        | Prop    |  |
| SPINNER       | C-3535-1P       | SPINNER ASSEMBLY             | 1        | Prop    |  |
| SPIN MTG KIT  | A-2476-7        | SPINNER - MTG KIT            | 1        | Prop    |  |
| MTG BOLT/STUD | A-2429-4        | STUD, MOUNTING, 1/2-20       | 6        | Prop    | Use w/E-7154-2R Hub Only                   |
| MTG BOLT/STUD | A-2429-7        | STUD, MOUNTING, 1/2-20       | 6        | Prop    | Use with E-7154-12R & E-7154-42R hubs only |
| OVERHAUL KIT  | PHC-C3YF-1RF*1  | O/H KIT W/O SLIMSERTS        | 1        | Prop    | For aftermarket use only                   |
| OVERHAUL KIT  | PHC-C3YF-1RF-OH | O/H KIT                      | 1        | Prop    | For aftermarket use only                   |

# HARTZELL

## APPLICATION GUIDE

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CESSNA

IDS No.: 2582 Rev.: 2 BC Date: 07/24/2014

Model: 180K  
 Trade Name: SKYWAGON  
 Aircraft T.C./STC: SA00852AT  
 Propeller Model: PHC-C3YF-1RF  
 Propeller T.C.: P25EA  
 Blade Model(s): F7691  
 Prop Diameter: 77.0 TO 78.0

Modifier: HARTZELL PROPELLER INC.  
 Engine Model: O-470-U  
 Power: 230 HP @ 2400 RPM  
 Placard/Restr:

Notes: Approved for landplane operation only.

**Prop Setup:**

Ref. Radius: 30  
 Reverse Angle:  
 Low Pitch Angle: 14.1 +-0.1  
 Stud Protrusion 1.450 +-0.030

Startlock Angle:  
 Feather/High Angle: 31.0 +-0.1  
 Cwt Angle:

**Non-HPI Items:**

Non-HPI Spinner:

Non-HPI Governor:

**Hartzell Approved Items:**

| Item Type     | Item Number     | Description                  | Quantity | Qty Per | Comments                                   |
|---------------|-----------------|------------------------------|----------|---------|--|
| PROPELLER     | C3F00025SKDTP*1 | C3F00025/SM7/C-3535-1P       | 1        | A/C     |  |
| PROPELLER     | C3F00025STP*1   | C3F00025/SM7/C-3535-1P       | 1        | A/C     |  |
| BLADE         | F7691           | PCP:BLADE UNIT, ALUM [1,1,5] | 3        | Prop    |  |
| SPINNER       | A-2295-1        | SPINNER ASSEMBLY             | 1        | Prop    |  |
| SPINNER       | A-2295-1P       | SPINNER ASSEMBLY             | 1        | Prop    |  |
| SPINNER       | C-3535-1        | SPINNER ASSEMBLY             | 1        | Prop    |  |
| SPINNER       | C-3535-1P       | SPINNER ASSEMBLY             | 1        | Prop    |  |
| SPIN MTG KIT  | A-2476-7        | SPINNER - MTG KIT            | 1        | Prop    |  |
| MTG BOLT/STUD | A-2429-4        | STUD, MOUNTING, 1/2-20       | 6        | Prop    | Use w/E-7154-2R Hub Only                   |
| MTG BOLT/STUD | A-2429-7        | STUD, MOUNTING, 1/2-20       | 6        | Prop    | Use with E-7154-12R & E-7154-42R hubs only |

# HARTZELL

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**CESSNA**

**Model:** 180  
**Trade Name:**  
**Aircraft T.C./STC:** SA090185C  
**Propeller Model:** PHC-C3YF-1RF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** F8068\*1  
**Prop Diameter:** 82

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 11.5+-0.2  
**Stud Protrusion** 1.450+-0.030

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>           | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>                            |
|------------------|--------------------|------------------------------|-----------------|----------------|--|
| PROPELLER        | C3F00039           | PHC-C3YF-1RF/F8068[*1]/SM7   | 1               | A/C            |  |
| BLADE            | F8068*1            | PCP:BLADE UNIT, ALUM [6,1,5] | 3               | Prop           |  |
| SPINNER          | D-5732-P           | SPINNER ASSEMBLY             | 1               | A/C            |  |
| SPIN MTG KIT     | A-2476-7           | SPINNER - MTG KIT            | 1               | Prop           |  |
| MTG BOLT/STUD    | A-2429-4           | STUD, MOUNTING, 1/2-20       | 6               | Prop           | Use w/E-7154-2R Hub Only                   |
| MTG BOLT/STUD    | A-2429-7           | STUD, MOUNTING, 1/2-20       | 6               | Prop           | Use with E-7154-12R & E-7154-42R hubs only |
| OVERHAUL KIT     | PHC-C3YF-1RF*1     | O/H KIT W/O SLIMSERTS        | 1               | Prop           | For aftermarket use only                   |
| OVERHAUL KIT     | PHC-C3YF-1RF-OH    | O/H KIT                      | 1               | Prop           | For aftermarket use only                   |

**IDS No.:** 2599      **Rev.:** 2      **IC**      **Date:** 07/16/2015

**Modifier:** TEXAS SKYWAYS  
**Engine Model:** O-550F/TS  
**Power:** 300 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:**  
**Feather/High Angle:** 32.0+-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

**CESSNA**

**Model:** 180J  
**Trade Name:** Skywagon  
**Aircraft T.C./STC:** SA01320CH  
**Propeller Model:** PHC-G3YF-1RF  
**Propeller T.C.:** P55GL  
**Blade Model(s):** F8468A-2R  
**Prop Diameter:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:**  
**Stud Protrusion** 1.450+-0.030

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>           | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|------------------------------|-----------------|----------------|-----------------|
| BLADE            | F8468A-2R          | PCP:BLADE UNIT, ALUM [1,1,1] | 3               | Prop           |                 |
| MTG BOLT/STUD    | A-2429-4           | STUD, MOUNTING, 1/2-20       | 6               | Prop           |                 |

**IDS No.:** 2875      **Rev.:** 1      **IC**      **Date:** 10/01/2015

**Modifier:** Wipaire  
**Engine Model:** O-470-R, -S  
**Power:** 230 HP @ 2600 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:**  
**Feather/High Angle:**  
**Cwt Angle:**

**Non-HPI Governor:**

# HARTZELL

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**CESSNA**

**Model:** 180K  
**Trade Name:** Skywagon  
**Aircraft T.C./STC:** SA02735CH  
**Propeller Model:** HC-C3YF-1RF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** F8068\*4  
**Prop Diameter:** 82" - 78"

**IDS No.:** 2860      **Rev.:** 2      **IC Date:** 07/16/2015

**Modifier:** Vitatoe Aviation LLC  
**Engine Model:** O-470-U  
**Power:** 230 HP @ 2400 RPM  
**Placard/Restr:**  
**Notes:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** 13.0+0.2  
**Stud Protrusion** 1.450 +-0.030

**Startlock Angle:**  
**Feather/High Angle:** 32.0+-1.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type     | Item Number    | Description                   | Quantity | Qty Per | Comments                 |
|---------------|----------------|-------------------------------|----------|---------|--------------------------|
| PROPELLER     | C3F07101       | HC-C3YF-1RF/F8068*[4]/SM6     | 1        | A/C     |                          |
| PROPELLER     | C3F07101KD     | HC-C3YF-1RF/F8068*[4]/SM6     | 1        | A/C     |                          |
| BLADE         | F8068*4        | PCP:BLADE UNIT, ALUM [6,16,5] | 3        | Prop    |                          |
| SPINNER       | A-2295-1       | SPINNER ASSEMBLY              | 1        | Prop    |                          |
| SPINNER       | A-2295-1P      | SPINNER ASSEMBLY              | 1        | Prop    |                          |
| SPIN MTG KIT  | A-2476-6       | SPINNER - MTG KIT             | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2429-4       | STUD, MOUNTING, 1/2-20        | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-C3YF-1RF-OH | O/H KIT                       | 1        | Prop    | For aftermarket use only |

**CESSNA**

**Model:** 180K  
**Trade Name:** Skywagon  
**Aircraft T.C./STC:** SA02821CH  
**Propeller Model:** HC-C3YF-1RF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** F8068\*4  
**Prop Diameter:** 82" - 78"

**IDS No.:** 2973      **Rev.:** 3      **IC Date:** 07/16/2015

**Modifier:** Hartzell Propeller  
**Engine Model:** O-470-U  
**Power:** 230 HP @ 2400 RPM  
**Placard/Restr:**  
**Notes:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** 13.0+0.2  
**Stud Protrusion** 1.450 +-0.030

**Startlock Angle:**  
**Feather/High Angle:** 32.0+-1.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type     | Item Number    | Description                   | Quantity | Qty Per | Comments                 |
|---------------|----------------|-------------------------------|----------|---------|--------------------------|
| PROPELLER     | C3F07101       | HC-C3YF-1RF/F8068*[4]/SM6     | 1        | A/C     |                          |
| PROPELLER     | C3F07101KD     | HC-C3YF-1RF/F8068*[4]/SM6     | 1        | A/C     |                          |
| BLADE         | F8068*4        | PCP:BLADE UNIT, ALUM [6,16,5] | 3        | Prop    |                          |
| SPINNER       | A-2295-1       | SPINNER ASSEMBLY              | 1        | Prop    |                          |
| SPINNER       | A-2295-1P      | SPINNER ASSEMBLY              | 1        | Prop    |                          |
| SPIN MTG KIT  | A-2476-6       | SPINNER - MTG KIT             | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2429-4       | STUD, MOUNTING, 1/2-20        | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-C3YF-1RF-OH | O/H KIT                       | 1        | Prop    | For aftermarket use only |



# HARTZELL

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CESSNA

**Model:** 180  
**Trade Name:** SKYWAGON  
**Aircraft T.C./STC:** STC-SA09025SC  
**Propeller Model:** PHC-G3YF-1RF  
**Propeller T.C.:** P55GL

**Blade Model(s):** F7691  
**Prop Diameter:** 78.0" TO 77.0"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.7 +-0.2  
**Stud Protrusion** 1.450 +-0.030

### Non-HPI Items:

Non-HPI Spinner:

### Hartzell Approved Items:

| Item Type     | Item Number     | Description                  | Quantity | Qty Per | Comments                 |
|---------------|-----------------|------------------------------|----------|---------|--------------------------|
| PROPELLER     | G3F00009        | PHC-G3YF-1RF/F7691/SM7       | 1        | A/C     |                          |
| BLADE         | F7691           | PCP:BLADE UNIT, ALUM [1,1,5] | 3        | Prop    |                          |
| SPINNER       | C-4582          | SPINNER ASSEMBLY             | 1        | Prop    |                          |
| SPINNER       | C-4582-P        | SPINNER ASSEMBLY             | 1        | Prop    |                          |
| SPIN MTG KIT  | A-2476-7        | SPINNER - MTG KIT            | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2429-4        | STUD, MOUNTING, 1/2-20       | 6        | Prop    |                          |
| OVERHAUL KIT  | PHC-G3YF-1RF-OH | O/H KIT                      | 1        | Prop    | For aftermarket use only |

**IDS No.:** 1082      **Rev.:** 1      **IC Date:** 07/16/2015

**Modifier:** HARTZELL PROPELLER  
**Engine Model:** O-470-K, -L, -R, -S  
**Power:** 230 HP @ 2600 RPM  
**Placard/Restr:** Refer to 8110-3 and/or STC for further information.

**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 33.0 +-1.0  
**Cwt Angle:**

Non-HPI Governor:

CESSNA

**Model:** 180  
**Trade Name:** SKYWAGON  
**Aircraft T.C./STC:** STC-SA09025SC  
**Propeller Model:** PHC-G3YF-1RF  
**Propeller T.C.:** P55GL

**Blade Model(s):** F7691  
**Prop Diameter:** 78.0" TO 77.0"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.7 +-0.2  
**Stud Protrusion** 1.450 +-0.030

### Non-HPI Items:

Non-HPI Spinner:

### Hartzell Approved Items:

| Item Type     | Item Number     | Description                  | Quantity | Qty Per | Comments                 |
|---------------|-----------------|------------------------------|----------|---------|--------------------------|
| PROPELLER     | G3F00019        | PHC-G3YF-1RF/F7691/SM25      | 1        | A/C     |                          |
| BLADE         | F7691           | PCP:BLADE UNIT, ALUM [1,1,5] | 3        | Prop    |                          |
| SPINNER       | D-5732          | IDS Item                     | 1        | Prop    |                          |
| SPINNER       | D-5732-P        | SPINNER ASSEMBLY             | 1        | Prop    |                          |
| SPIN MTG KIT  | A-2476-25       | SPINNER - MTG KIT            | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2429-4        | STUD, MOUNTING, 1/2-20       | 6        | Prop    |                          |
| OVERHAUL KIT  | PHC-G3YF-1RF-OH | O/H KIT                      | 1        | Prop    | For aftermarket use only |

**IDS No.:** 1680      **Rev.:** 1      **IC Date:** 07/16/2015

**Modifier:** HARTZELL PROPELLER  
**Engine Model:** O-470-K, -L, -R, -S  
**Power:** 230 HP @ 2600 RPM  
**Placard/Restr:** Refer to 8110-3 and/or STC for further information.

**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 33.0 +-1.0  
**Cwt Angle:**

Non-HPI Governor:

# HARTZELL

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CESSNA

IDS No.: 1437 Rev.: 1 IC Date: 07/16/2015

Model: 180  
 Trade Name: SKYWAGON  
 Aircraft T.C./STC: STC-SA09025SC  
 Propeller Model: PHC-G3YF-1RF  
 Propeller T.C.: P55GL  
 Blade Model(s): F7691  
 F7691\*1  
 Prop Diameter: 78.0" TO 77.0"

Modifier: HARTZELL PROPELLER  
 Engine Model: O-470-U  
 Power: 230 HP @ 2400 RPM  
 Placard/Restr:  
 Notes:

### Prop Setup:

Ref. Radius: 30  
 Reverse Angle: NA  
 Low Pitch Angle: 15.0 +-0.2  
 Stud Protrusion 1.450 +-0.030

Startlock Angle: NA  
 Feather/High Angle: 33.0 +-1.0  
 Cwt Angle:

### Non-HPI Items:

Non-HPI Spinner:

Non-HPI Governor:

### Hartzell Approved Items:

| Item Type     | Item Number     | Description                  | Quantity | Qty Per | Comments                 |
|---------------|-----------------|------------------------------|----------|---------|--------------------------|
| PROPELLER     | G3F00008        | PHC-G3YF-1RF/F7691/SM25      | 1        | A/C     |                          |
| PROPELLER     | G3F00008KD      | PHC-G3YF-1RF/F7691/SM25      | 1        | A/C     |                          |
| PROPELLER     | G3F00008SKDTP   | G3F00008/SM25/D-4798-1P      | 1        | A/C     |                          |
| PROPELLER     | G3F00008STP     | G3F00008/SM25/D-4798-1P      | 1        | A/C     |                          |
| BLADE         | F7691           | PCP:BLADE UNIT, ALUM [1,1,5] | 3        | Prop    |                          |
| BLADE         | F7691*1         | PCP:BLADE UNIT, ALUM [3,1,5] | 3        | Prop    |                          |
| SPINNER       | D-4798-1        | SPINNER ASSEMBLY             | 1        | Prop    |                          |
| SPINNER       | D-4798-1P       | SPINNER ASSEMBLY             | 1        | Prop    |                          |
| SPINNER       | D-5732          | IDS Item                     | 1        | Prop    |                          |
| SPINNER       | D-5732-P        | SPINNER ASSEMBLY             | 1        | Prop    |                          |
| SPIN MTG KIT  | A-2476-25       | SPINNER - MTG KIT            | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2429-4        | STUD, MOUNTING, 1/2-20       | 6        | Prop    |                          |
| OVERHAUL KIT  | PHC-G3YF-1RF-OH | O/H KIT                      | 1        | Prop    | For aftermarket use only |

# HARTZELL

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**CESSNA**

**Model:** 180  
**Trade Name:** SKYWAGON  
**Aircraft T.C./STC:** STC-SA09025SC  
**Propeller Model:** PHC-G3YF-1RF  
**Propeller T.C.:** P55GL

**Blade Model(s):** F7691  
**Prop Diameter:** 78.0" TO 77.0"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 15.0 +-0.2  
**Stud Protrusion** 1.450 +-0.030

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number     | Description                  | Quantity | Qty Per | Comments                 |
|---------------|-----------------|------------------------------|----------|---------|--------------------------|
| PROPELLER     | G3F00018        | PHC-G3YF-1RF/F7691/SM7       | 1        | A/C     |                          |
| BLADE         | F7691           | PCP:BLADE UNIT, ALUM [1,1,5] | 3        | Prop    |                          |
| SPINNER       | C-4582          | SPINNER ASSEMBLY             | 1        | Prop    |                          |
| SPINNER       | C-4582-P        | SPINNER ASSEMBLY             | 1        | Prop    |                          |
| SPIN MTG KIT  | A-2476-7        | SPINNER - MTG KIT            | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2429-4        | STUD, MOUNTING, 1/2-20       | 6        | Prop    |                          |
| OVERHAUL KIT  | PHC-G3YF-1RF-OH | O/H KIT                      | 1        | Prop    | For aftermarket use only |

**IDS No.:** 1679      **Rev.:** 1      **IC Date:** 07/16/2015

**Modifier:** HARTZELL PROPELLER  
**Engine Model:** O-470-U  
**Power:** 230 HP @ 2400 RPM  
**Placard/Restr:** Refer to 8110-3 and/or STC for further information.

**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 33.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

**CESSNA**

**Model:** 180, 182  
**Trade Name:** SKYWAGON (SKYLANE 182)  
**Aircraft T.C./STC:** STC-SE4988NM/SA09018SC  
**Propeller Model:** PHC-G3YF-1RF  
**Propeller T.C.:** P55GL

**Blade Model(s):** F7691  
 F7691\*1  
**Prop Diameter:** 78.0" TO 77.0"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.4 +-0.2  
**Stud Protrusion** 1.450 +-0.030

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number     | Description                  | Quantity | Qty Per | Comments                 |
|---------------|-----------------|------------------------------|----------|---------|--------------------------|
| PROPELLER     | G3F00001        | PHC-G3YF-1RF/F7691/SM25      | 1        | A/C     |                          |
| PROPELLER     | G3F00004        | PHC-G3YF-1RF/F7691[*1]/SM25  | 1        | A/C     |                          |
| BLADE         | F7691           | PCP:BLADE UNIT, ALUM [1,1,5] | 3        | Prop    |                          |
| BLADE         | F7691*1         | PCP:BLADE UNIT, ALUM [3,1,5] | 3        | Prop    |                          |
| SPINNER       | D-5732-P        | SPINNER ASSEMBLY             | 1        | Prop    |                          |
| SPIN MTG KIT  | A-2476-25       | SPINNER - MTG KIT            | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2429-4        | STUD, MOUNTING, 1/2-20       | 6        | Prop    |                          |
| OVERHAUL KIT  | PHC-G3YF-1RF-OH | O/H KIT                      | 1        | Prop    | For aftermarket use only |

**IDS No.:** 1083      **Rev.:** 1      **IC Date:** 07/16/2015

**Modifier:** TEXAS SKYWAYS  
**Engine Model:** IO-520-D  
**Power:** 300 HP @ 2850 RPM  
**Placard/Restr:**

**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 32.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

# HARTZELL

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CESSNA

IDS No.: 1677      Rev.: 1      IC      Date: 07/16/2015

**Model:** 180, 182  
**Trade Name:** SKYWAGON (SKYLANE 182)  
**Aircraft T.C./STC:** STC-SE4988NM/SA09018SC  
**Propeller Model:** PHC-G3YF-1RF  
**Propeller T.C.:** P55GL  
**Blade Model(s):** F7691  
    F7691\*1  
**Prop Diameter:** 78.0" TO 77.0"

**Modifier:** TEXAS SKYWAYS  
**Engine Model:** IO-520-D  
**Power:** 300 HP @ 2850 RPM  
**Placard/Restr:**  
**Notes:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.4 +-0.2  
**Stud Protrusion** 1.450 +-0.030

**Startlock Angle:** NA  
**Feather/High Angle:** 32.0 +-1.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>           | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|------------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | G3F00014           | PHC-G3YF-1RF/F7691/SM7       | 1               | A/C            |                          |
| PROPELLER        | G3F00016           | PHC-G3YF-1RF/F7691[*1]/SM7   | 1               | A/C            |                          |
| BLADE            | F7691              | PCP:BLADE UNIT, ALUM [1,1,5] | 3               | Prop           |                          |
| BLADE            | F7691*1            | PCP:BLADE UNIT, ALUM [3,1,5] | 3               | Prop           |                          |
| SPINNER          | C-4582-P           | SPINNER ASSEMBLY             | 1               | Prop           |                          |
| SPIN MTG KIT     | A-2476-7           | SPINNER - MTG KIT            | 1               | Prop           |                          |
| MTG BOLT/STUD    | A-2429-4           | STUD, MOUNTING, 1/2-20       | 6               | Prop           |                          |
| OVERHAUL KIT     | PHC-G3YF-1RF-OH    | O/H KIT                      | 1               | Prop           | For aftermarket use only |

# HARTZELL

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CESSNA

**Model:** 180()  
**Trade Name:** Skywagon  
**Aircraft T.C./STC:** SA02735CH  
**Propeller Model:** HC-C3YF-1RF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** F8068\*4  
**Prop Diameter:** 82" - 78"

**IDS No.:** 2904      **Rev.:** 1      **IC Date:** 07/16/2015

**Modifier:** Vitatoe Aviation LLC  
**Engine Model:** IO-520-F (de-rated)  
**Power:** 235 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:** C-5732-P: Eligible on STC SA09055SC  
 (Texas Skyways 180)  
 A-2476-25: Eligible on  
 STC SA09055SC (Texas Skyways 180)

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** 11.3 + - 0.2  
**Stud Protrusion** 1.450 +/- .030

**Startlock Angle:**  
**Feather/High Angle:** 32.0 + - 1.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>            | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|-------------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | C3F07104           | HC-C3YF-1RF/F8068*[4]/SM25    | 1               | A/C            |                          |
| PROPELLER        | C3F07104KD         | HC-C3YF-1RF/F8068*[4]/SM25    | 1               | A/C            |                          |
| BLADE            | F8068*4            | PCP:BLADE UNIT, ALUM [6,16,5] | 3               | Prop           |                          |
| SPINNER          | D-5732-P           | SPINNER ASSEMBLY              | 1               | Prop           | SEE NOTES                |
| SPIN MTG KIT     | A-2476-25          | SPINNER - MTG KIT             | 1               | Prop           | SEE NOTES                |
| MTG BOLT/STUD    | A-2429-4           | STUD, MOUNTING, 1/2-20        | 6               | Prop           |                          |
| MTG BOLT/STUD    | A-2429-4           | STUD, MOUNTING, 1/2-20        | 6               | Prop           |                          |
| OVERHAUL KIT     | HC-C3YF-1RF-OH     | O/H KIT                       | 1               | Prop           | For aftermarket use only |

# HARTZELL

## APPLICATION GUIDE 159

CESSNA

**Model:** 180()  
**Trade Name:** Skywagon  
**Aircraft T.C./STC:** SA02821CH  
**Propeller Model:** HC-C3YF-1RF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** F8068\*4  
**Prop Diameter:** 82" - 78"

**IDS No.:** 2981      **Rev.:** 2      **IC Date:** 07/16/2015

**Modifier:** Hartzell Propeller  
**Engine Model:** IO-520-F (de-rated)  
**Power:** 235 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:** C-5732-P: Eligible on STC SA09055SC  
 (Texas Skyways 180)  
 A-2476-25: Eligible on  
 STC SA09055SC (Texas Skyways 180)

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** 11.3 + - 0.2  
**Stud Protrusion** 1.450 +/- .030

**Startlock Angle:**  
**Feather/High Angle:** 32.0 + - 1.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>            | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|-------------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | C3F07104           | HC-C3YF-1RF/F8068*[4]/SM25    | 1               | A/C            |                          |
| PROPELLER        | C3F07104KD         | HC-C3YF-1RF/F8068*[4]/SM25    | 1               | A/C            |                          |
| BLADE            | F8068*4            | PCP:BLADE UNIT, ALUM [6,16,5] | 3               | Prop           |                          |
| SPINNER          | D-5732-P           | SPINNER ASSEMBLY              | 1               | Prop           | SEE NOTES                |
| SPIN MTG KIT     | A-2476-25          | SPINNER - MTG KIT             | 1               | Prop           | SEE NOTES                |
| MTG BOLT/STUD    | A-2429-4           | STUD, MOUNTING, 1/2-20        | 6               | Prop           |                          |
| OVERHAUL KIT     | HC-C3YF-1RF-OH     | O/H KIT                       | 1               | Prop           | For aftermarket use only |

# HARTZELL

## APPLICATION GUIDE 159

CESSNA

**Model:** 180( )  
**Trade Name:** SKYWAGON  
**Aircraft T.C./STC:** SA02735CH  
**Propeller Model:** PHC-C3YF-1RF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** F8068\*4  
**Prop Diameter:** 82" - 78"

**IDS No.:** 2903      **Rev.:** 2      **IC Date:** 07/16/2015  
**Modifier:** Vitatoe Aviation LLC  
**Engine Model:** O-470-A, -K, -J, -L, -S  
**Power:** 230 HP @ 2600 RPM  
**Placard/Restr:**  
**Notes:** A-2295-1(P) Eligible on STC SA09530SC  
 (Texas Skyways  
 180)  
 t

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** 12.3 + - 0.2  
**Stud Protrusion** 1.450+/- .030

**Startlock Angle:**  
**Feather/High Angle:** 32.0 + - 1.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>            | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>                            |
|------------------|--------------------|-------------------------------|-----------------|----------------|--|
| PROPELLER        | C3F01901           | PHC-C3YF-1RF/F8068[*4]/SM30   | 1               | A/C            |  |
| PROPELLER        | C3F01901KD         | PHC-C3YF-1RF/F8068[*4]/SM30   | 1               | A/C            |  |
| BLADE            | F8068*4            | PCP:BLADE UNIT, ALUM [6,16,5] | 3               | Prop           |  |
| SPINNER          | A-2295-1           | SPINNER ASSEMBLY              | 1               | Prop           | SEE NOTES                                  |
| SPINNER          | A-2295-1P          | SPINNER ASSEMBLY              | 1               | Prop           | SEE NOTES                                  |
| SPINNER          | C-3535-1           | SPINNER ASSEMBLY              | 1               | Prop           | Optional See notes                         |
| SPINNER          | C-3535-1P          | SPINNER ASSEMBLY              | 1               | Prop           | Optional See Notes                         |
| SPIN MTG KIT     | A-2476-30          | SPINNER - MTG KIT             | 1               | Prop           |  |
| MTG BOLT/STUD    | A-2429-4           | STUD, MOUNTING, 1/2-20        | 6               | Prop           | E-7154-2R HUB ONLY                         |
| MTG BOLT/STUD    | A-2429-7           | STUD, MOUNTING, 1/2-20        | 6               | Prop           | Use with E-7154-12R & E-7154-42R hubs only |
| OVERHAUL KIT     | PHC-C3YF-1RF*1     | O/H KIT W/O SLIMSERTS         | 1               | Prop           | For aftermarket use only                   |
| OVERHAUL KIT     | PHC-C3YF-1RF-OH    | O/H KIT                       | 1               | Prop           | For aftermarket use only                   |

# HARTZELL

## APPLICATION GUIDE

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CESSNA

IDS No.: 2980 Rev.: 3 IC Date: 07/16/2015

**Model:** 180()  
**Trade Name:** SKYWAGON  
**Aircraft T.C./STC:** SA02821CH  
**Propeller Model:** PHC-C3YF-1RF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** F8068\*4  
**Prop Diameter:** 82" - 78"

**Modifier:** Hartzell Propeller  
**Engine Model:** O-470-A, -K, -J, -L, -S  
**Power:** 230 HP @ 2600 RPM  
**Placard/Restr:**  
**Notes:** A-2295-1(P) Eligible on STC SA09530SC  
 (Texas Skyways  
 180)

t

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** 12.3 + - 0.2  
**Stud Protrusion** 1.450+/- .030

**Startlock Angle:**  
**Feather/High Angle:** 32.0 + - 1.0  
**Cwt Angle:**

### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>            | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>                            |
|------------------|--------------------|-------------------------------|-----------------|----------------|--|
| PROPELLER        | C3F01901           | PHC-C3YF-1RF/F8068[*4]/SM30   | 1               | A/C            |  |
| PROPELLER        | C3F01901KD         | PHC-C3YF-1RF/F8068[*4]/SM30   | 1               | A/C            |  |
| BLADE            | F8068*4            | PCP:BLADE UNIT, ALUM [6,16,5] | 3               | Prop           |  |
| SPINNER          | A-2295-1           | SPINNER ASSEMBLY              | 1               | Prop           | SEE NOTES                                  |
| SPINNER          | A-2295-1P          | SPINNER ASSEMBLY              | 1               | Prop           | SEE NOTES                                  |
| SPINNER          | C-3535-1           | SPINNER ASSEMBLY              | 1               | Prop           | Optional See notes                         |
| SPINNER          | C-3535-1P          | SPINNER ASSEMBLY              | 1               | Prop           | Optional See Notes                         |
| SPIN MTG KIT     | A-2476-30          | SPINNER - MTG KIT             | 1               | Prop           |  |
| MTG BOLT/STUD    | A-2429-4           | STUD, MOUNTING, 1/2-20        | 6               | Prop           | E-7154-2R HUB ONLY                         |
| MTG BOLT/STUD    | A-2429-7           | STUD, MOUNTING, 1/2-20        | 6               | Prop           | Use with E-7154-12R & E-7154-42R hubs only |
| OVERHAUL KIT     | PHC-C3YF-1RF*1     | O/H KIT W/O SLIMSERTS         | 1               | Prop           | For aftermarket use only                   |
| OVERHAUL KIT     | PHC-C3YF-1RF-OH    | O/H KIT                       | 1               | Prop           | For aftermarket use only                   |



# HARTZELL

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CESSNA

IDS No.: 3040 Rev.: 2 IC Date: 07/16/2015

Model: 180( )  
 Trade Name: Skywagon  
 Aircraft T.C./STC: SA02821CH  
 Propeller Model: PHC-C3YF-1RF  
 Propeller T.C.: P25EA  
 Blade Model(s): F8068\*4  
 Prop Diameter: 82" - 78"

Modifier: Hartzell Propeller  
 Engine Model: O-470-U,  
 Power: 230 HP @ 2400 RPM  
 Placard/Restr:

Notes: Eligible only on aircraft modified by Texas Skyways STC SA09530SC

**Prop Setup:**

Ref. Radius: 30  
 Reverse Angle:  
 Low Pitch Angle: 13.0 +- 0.2  
 Stud Protrusion 1.450 +- .030

Startlock Angle:  
 Feather/High Angle: 32.0 +- 1.0  
 Cwt Angle:

**Non-HPI Items:**

Non-HPI Spinner:

Non-HPI Governor:

**Hartzell Approved Items:**

| Item Type     | Item Number     | Description                   | Quantity | Qty Per | Comments                                |
|---------------|-----------------|-------------------------------|----------|---------|---|
| PROPELLER     | C3F01903        | PHC-C3YF-1RF/F8068[*4]/SM25   | 1        | A/C     |   |
| PROPELLER     | C3F01903KD      | PHC-C3YF-1RF/F8068[*4]/SM25   | 1        | A/C     |   |
| BLADE         | F8068*4         | PCP:BLADE UNIT, ALUM [6,16,5] | 3        | Prop    |   |
| SPINNER       | D-5732-P        | SPINNER ASSEMBLY              | 1        | Prop    |   |
| SPIN MTG KIT  | A-2476-25       | SPINNER - MTG KIT             | 1        | Prop    |   |
| MTG BOLT/STUD | A-2429-4        | STUD, MOUNTING, 1/2-20        | 6        | Prop    | USE W/E-7154-2R HUB ONLY                |
| MTG BOLT/STUD | A-2429-7        | STUD, MOUNTING, 1/2-20        | 6        | Prop    | USE W/E-7154-12R & E-7154-42R HUBS ONLY |
| OVERHAUL KIT  | PHC-C3YF-1RF*1  | O/H KIT W/O SLIMSERTS         | 1        | Prop    | For aftermarket use only                |
| OVERHAUL KIT  | PHC-C3YF-1RF-OH | O/H KIT                       | 1        | Prop    | For aftermarket use only                |

# HARTZELL

## APPLICATION GUIDE

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CESSNA

IDS No.: 3039 Rev.: 1 IC Date: 07/16/2015

Model: 180( )  
 Trade Name: Skywagon  
 Aircraft T.C./STC: SA02735CH  
 Propeller Model: PHC-C3YF-1RF  
 Propeller T.C.: P25EA  
 Blade Model(s): F8068\*4  
 Prop Diameter: 82" - 78"

Modifier: VITATOE AVIATION LLC  
 Engine Model: O-470-U  
 Power: 230 HP @ 2400 RPM  
 Placard/Restr:

Notes: Eligible only on aircraft modified by Texas Skyways STC SA09530SC

### Prop Setup:

Ref. Radius: 30  
 Reverse Angle:  
 Low Pitch Angle: 12.3 + - 0.2  
 Stud Protrusion 1.450+/- .030

Startlock Angle:  
 Feather/High Angle: 32.0 + - 1.0  
 Cwt Angle:

### Non-HPI Items:

Non-HPI Spinner:

Non-HPI Governor:

### Hartzell Approved Items:

| Item Type     | Item Number     | Description                   | Quantity | Qty Per | Comments                                |
|---------------|-----------------|-------------------------------|----------|---------|---|
| PROPELLER     | C3F01903        | PHC-C3YF-1RF/F8068[*4]/SM25   | 1        | A/C     |   |
| PROPELLER     | C3F01903KD      | PHC-C3YF-1RF/F8068[*4]/SM25   | 1        | A/C     |   |
| BLADE         | F8068*4         | PCP:BLADE UNIT, ALUM [6,16,5] | 3        | Prop    |   |
| SPINNER       | D-5732-P        | SPINNER ASSEMBLY              | 1        | Prop    |   |
| SPIN MTG KIT  | A-2476-25       | SPINNER - MTG KIT             | 1        | Prop    |   |
| MTG BOLT/STUD | A-2429-4        | STUD, MOUNTING, 1/2-20        | 6        | Prop    | USE W/E-7154-2R HUB ONLY                |
| MTG BOLT/STUD | A-2429-7        | STUD, MOUNTING, 1/2-20        | 6        | Prop    | USE W/E-7154-12R & E-7154-42R HUBS ONLY |
| OVERHAUL KIT  | PHC-C3YF-1RF*1  | O/H KIT W/O SLIMSERTS         | 1        | Prop    | For aftermarket use only                |
| OVERHAUL KIT  | PHC-C3YF-1RF-OH | O/H KIT                       | 1        | Prop    | For aftermarket use only                |

# HARTZELL

## APPLICATION GUIDE

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CESSNA

IDS No.: 2026 Rev.: 3 IC Date: 05/07/2020

**Model:** 180(), 182()  
**Trade Name:**  
**Aircraft T.C./STC:** SA02278AK  
**Propeller Model:** PHC-C3YF-1RF  
**Propeller T.C.:** P25EA

**Modifier:** P. PONK  
**Engine Model:** IO-520-D, IO-550-D, 0-470-K,-L,-R,-S,-U,-50  
**Power:** 300 HP @ 2700 RPM  
**Placard/Restr:** Aircraft equipped with Continental engine Model IO-520-D must have the maximum RPM stop on the propeller governor set to 2700 RPM and the engine tachometer must have a red line installed at 2700 RPM.

**Blade Model(s):** F8068  
 F8068+2  
**Prop Diameter:** 84 TO 78

**Notes:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 11.0 +-0.2  
**Stud Protrusion** 1.450 +-0.030

**Startlock Angle:** NA  
**Feather/High Angle:** 36.0 +-1.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type     | Item Number     | Description                  | Quantity | Qty Per | Comments                                   |
|---------------|-----------------|------------------------------|----------|---------|--|
| PROPELLER     | C3F00008        | PHC-C3YF-1RF/F8068/SM7       | 1        | A/C     |  |
| PROPELLER     | C3F00008KD      | PHC-C3YF-1RF/F8068/SM7       | 0        |         |  |
| PROPELLER     | C3F00009        | PHC-C3YF-1RF/F8068+2/SM7     | 1        | A/C     |  |
| PROPELLER     | C3F00009KD      | PHC-C3YF-1RF/F8068+2/SM7     | 1        | A/C     |  |
| BLADE         | F8068           | PCP:BLADE UNIT, ALUM [1,1,5] | 3        | Prop    |  |
| BLADE         | F8068+2         | PCP:BLADE UNIT, ALUM [1,1,5] | 3        | Prop    |  |
| SPINNER       | A-2295-1P       | SPINNER ASSEMBLY             | 1        | Prop    | Used on 182H thru 182R                     |
| SPINNER       | C-3575-P        | SPINNER ASSEMBLY             | 1        | Prop    | Used on 182 thru 182G                      |
| SPIN MTG KIT  | A-2476-7        | SPINNER - MTG KIT            | 1        | Prop    |  |
| MTG BOLT/STUD | A-2429-4        | STUD, MOUNTING, 1/2-20       | 6        | Prop    | Use w/E-7154-2R Hub Only                   |
| MTG BOLT/STUD | A-2429-7        | STUD, MOUNTING, 1/2-20       | 6        | Prop    | Use with E-7154-12R & E-7154-42R hubs only |
| OVERHAUL KIT  | PHC-C3YF-1RF*1  | O/H KIT W/O SLIMSERTS        | 1        | Prop    | For aftermarket use only                   |
| OVERHAUL KIT  | PHC-C3YF-1RF-OH | O/H KIT                      | 1        | Prop    | For aftermarket use only                   |

# HARTZELL

## APPLICATION GUIDE 159

CESSNA

IDS No.: 1639 Rev.: 1 D Date: 01/10/2011

**Model:** 180A,B  
**Trade Name:** SKYWAGON  
**Aircraft T.C./STC:** 5A6  
**Propeller Model:** HC-A2MVF-1A  
**Propeller T.C.:** P24EA  
**Blade Model(s):** MV8433N  
MV8833N  
**Prop Diameter:** 8433; 84" to 82", 8833 NO CUT

**Modifier:**  
**Engine Model:** O-470-K  
**Power:** 230 HP @ 2600 RPM  
**Placard/Restr:**  
**Notes:** WT 8833- 64 LBS

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.0 +-0.2  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 24.0 +-0.5  
**Cwt Angle:** Positive

### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:** WOODWARD

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>            | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|-------------------------------|-----------------|----------------|-----------------|
| BLADE            | MV8433N            | PCP:BLADE UNIT, ALUM [1,1,1]  | 2               | Prop           |                 |
| BLADE            | MV8833N            | PCP:BLADE UNIT, ALUM [1,1,1]  | 2               | Prop           |                 |
| SPINNER          | 835-13             | SPINNER ASSEMBLY              | 1               | Prop           |                 |
| MTG BOLT/STUD    | A-1328-1           | BOLT,MOUNTING,1/2-20,12 POINT | 6               | Prop           |                 |

CESSNA

IDS No.: 2306 Rev.: - DM Date: 11/20/2003

**Model:** 180A,B  
**Trade Name:** SKYWAGON  
**Aircraft T.C./STC:** 5A6  
**Propeller Model:** HC-82XF-1A, HC-A2XF-1A  
**Propeller T.C.:** P24EA  
**Blade Model(s):** 8433  
**Prop Diameter:** 8433; 84" to 82", 8833 NO CUT

**Modifier:**  
**Engine Model:** O-470-K  
**Power:** 230 HP @ 2600 RPM  
**Placard/Restr:**  
**Notes:** Weight 8833- 64 lbs

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.0 +-0.2  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 24.0 +-0.5  
**Cwt Angle:** Positive

### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:** WOODWARD

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>            | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|-------------------------------|-----------------|----------------|-----------------|
| BLADE            | 8433               | BLADE                         | 2               | Prop           |                 |
| SPINNER          | 835-13             | SPINNER ASSEMBLY              | 1               | Prop           |                 |
| MTG BOLT/STUD    | A-1328-1           | BOLT,MOUNTING,1/2-20,12 POINT | 6               | Prop           |                 |

# HARTZELL

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CESSNA

**Model:** 180A,B  
**Trade Name:** SKYWAGON  
**Aircraft T.C./STC:** 5A6  
**Propeller Model:** HC-82VF-1A, HC-A2VF-1A  
**Propeller T.C.:** P24EA  
**Blade Model(s):** V8433  
 V8433N  
**Prop Diameter:** 8433; 84" to 82", 8833 NO CUT

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.0 +-0.2  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 2307      **Rev.:** -      **DM Date:** 11/20/2003

**Modifier:**  
**Engine Model:** O-470-K  
**Power:** 230 HP @ 2600 RPM  
**Placard/Restr:**  
**Notes:** Weight 8833- 64 lbs

**Startlock Angle:** NA  
**Feather/High Angle:** 24.0 +-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:** WOODWARD

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>            | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|-------------------------------|-----------------|----------------|-----------------|
| BLADE            | V8433              | BLADE                         | 2               | Prop           |                 |
| BLADE            | V8433N             | BLADE                         | 2               | Prop           |                 |
| SPINNER          | 835-13             | SPINNER ASSEMBLY              | 1               | Prop           |                 |
| MTG BOLT/STUD    | A-1328-1           | BOLT,MOUNTING,1/2-20,12 POINT | 6               | Prop           |                 |

CESSNA

**Model:** 180, A, B, C, D, E, F, G, H  
**Trade Name:** SKYWAGON  
**Aircraft T.C./STC:** STC-SA816SW  
**Propeller Model:** BHC-82XF-3, BHC-A2XF-3  
**Propeller T.C.:** P24EA  
**Blade Model(s):**  
**Prop Diameter:** 88" NO CUT OFF

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:**  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 2140      **Rev.:** -      **DM Date:** 11/20/2003

**Modifier:** PETERSON AIRCRAFT  
**Engine Model:** O-470-A, -J, -R, -K, -L  
**Power:** 230 HP @ 2600 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:**  
**Cwt Angle:** Positive

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u> | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|--------------------|-----------------|----------------|-----------------|
| SPINNER          | 837-11             | SPINNER ASSEMBLY   | 1               | Prop           |                 |
| SPINNER          | 837-18             | SPINNER ASSEMBLY   | 1               | Prop           |                 |

# HARTZELL

## APPLICATION GUIDE

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**CESSNA**

**Model:** 180, A, B, C, D, E, F, G, H  
**Trade Name:** SKYWAGON  
**Aircraft T.C./STC:** STC-SA816SW  
**Propeller Model:** BHC-82VF-3, BHC-A2VF-3  
**Propeller T.C.:** P24EA  
**Blade Model(s):** V8833  
V8833N  
**Prop Diameter:** 88" NO CUT OFF

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:**  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type | Item Number | Description      | Quantity | Qty Per | Comments |
|-----------|-------------|------------------|----------|---------|----------|
| BLADE     | V8833       | BLADE UNIT       | 2        | Prop    |          |
| BLADE     | V8833N      | BLADE UNIT       | 2        | Prop    |          |
| SPINNER   | 837-11      | SPINNER ASSEMBLY | 1        | Prop    |          |
| SPINNER   | 837-18      | SPINNER ASSEMBLY | 1        | Prop    |          |

**IDS No.:** 2141 **Rev.:** - **DM Date:** 11/20/2003

**Modifier:** PETERSON AIRCRAFT  
**Engine Model:** O-470-A, -J, -R, -K, -L  
**Power:** 230 HP @ 2600 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:**  
**Cwt Angle:** Positive

**Non-HPI Governor:**

**CESSNA**

**Model:** 180, A, B, C, D, E, F, G, H  
**Trade Name:** SKYWAGON  
**Aircraft T.C./STC:** STC-SA816SW  
**Propeller Model:** BHC-A2(M)VF-3  
**Propeller T.C.:** P24EA  
**Blade Model(s):** MV8833N  
V8833  
**Prop Diameter:** 80"-R, 86"-A,J, 88"-K,L

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** -15.0 +/- 0.5  
**Low Pitch Angle:** 13.0 +/- 0.1  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type                    | Item Number | Description                    | Quantity | Qty Per | Comments            |
|------------------------------|-------------|--------------------------------|----------|---------|---------------------|
| PROPELLER                    | A2F10165    | BHC-A2MVf-3/MV8833N            | 1        | A/C     |                     |
| BLADE                        | MV8833N     | PCP:BLADE UNIT, ALUM [1,1,1]   | 2        | Prop    |                     |
| BLADE                        | V8833       | BLADE UNIT                     | 2        | Prop    | Replaced by MV8833N |
| COUNTERWEIGHT SLUG A-619-6   |             | SLUG, COUNTERWEIGHT            | 1        | Blade   |                     |
| COUNTERWEIGHT SLUG A-890-8   |             | PCP:SLUG, COUNTERWEIGHT        | 1        | Blade   |                     |
| COUNTERWEIGHT SLUG B-3384-23 |             | BOLT, 1/4-28, HEX HEAD         | 2        | Blade   |                     |
| COUNTERWEIGHT SLUG B-3808-4  |             | NUT,HEX,SELF-LOCKING           | 2        | Blade   |                     |
| MTG BOLT/STUD                | A-1328-1    | BOLT,MOUNTING,1/2-20,12 POINT  | 6        | Prop    |                     |
| MISC ACCES                   | A-3044      | BLOCK, BETA FEEDBACK- ASSEMBLY | 1        | Prop    |                     |

**IDS No.:** 2142 **Rev.:** 1 **D Date:** 09/09/2011

**Modifier:** PETERSON AIRCRAFT  
**Engine Model:** O-470-A, -J, -R, -K, -L  
**Power:** 230 HP @ 2600 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 26.5 +/- 0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:**

# HARTZELL

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**CESSNA**

**Model:** 180, A, B, C, D, E, F, G, H  
**Trade Name:** SKYWAGON  
**Aircraft T.C./STC:** STC-SA816SW  
**Propeller Model:** BHC-A2MVF-3  
**Propeller T.C.:** P24EA  
**Blade Model(s):** MV8833N  
**Prop Diameter:** 88" NO CUT OFF

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:**  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>           | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|------------------------------|-----------------|----------------|-----------------|
| BLADE            | MV8833N            | PCP:BLADE UNIT, ALUM [1,1,1] | 2               | Prop           |                 |
| SPINNER          | 837-11             | SPINNER ASSEMBLY             | 1               | Prop           |                 |
| SPINNER          | 837-18             | SPINNER ASSEMBLY             | 1               | Prop           |                 |

**IDS No.:** 366      **Rev.:** -      **DM Date:** 05/13/1998

**Modifier:** PETERSON AIRCRAFT  
**Engine Model:** O-470-A, -J, -R, -K, -L  
**Power:** 230 HP @ 2600 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:**  
**Cwt Angle:** Positive

**Non-HPI Governor:**

**CESSNA**

**Model:** 180, A, B, C, D, E, F, G, H  
**Trade Name:** SKYWAGON  
**Aircraft T.C./STC:** STC-SA816SW  
**Propeller Model:** BHC-A2MVF-3  
**Propeller T.C.:** P24EA  
**Blade Model(s):** MV8833N  
**Prop Diameter:** 80"-R, 86"-A,J, 88"-K,L

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:**  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>           | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|------------------------------|-----------------|----------------|-----------------|
| BLADE            | MV8833N            | PCP:BLADE UNIT, ALUM [1,1,1] | 2               | Prop           |                 |

**IDS No.:** 367      **Rev.:** -      **DM Date:** 05/13/1998

**Modifier:** PETERSON AIRCRAFT  
**Engine Model:** O-470-A, -J, -R, -K, -L  
**Power:** 230 HP @ 2600 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:**  
**Cwt Angle:** Positive

**Non-HPI Governor:**

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**CESSNA**

**Model:** 180, 180(A-H), J, K  
**Trade Name:** SKYWAGON  
**Aircraft T.C./STC:** STC-SA00785AT  
**Propeller Model:** PHC-C3YF-1RF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** F8468A-6R  
**Prop Diameter:** 80.0" TO 78.0"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 11.7 +-0.1  
**Stud Protrusion** 1.450 +-0.030

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number     | Description                  | Quantity | Qty Per | Comments                                   |
|---------------|-----------------|------------------------------|----------|---------|--|
| PROPELLER     | C3F00132        | PHC-C3YF-1RF/F8468A-6R/SM7   | 1        | A/C     |  |
| PROPELLER     | C3F00132KD      | PHC-C3YF-1RF/F8468A-6R/SM7   | 1        | A/C     |  |
| BLADE         | F8468A-6R       | PCP:BLADE UNIT, ALUM [1,1,1] | 3        | Prop    |  |
| SPINNER       | C-3535-1        | SPINNER ASSEMBLY             | 1        | Prop    |  |
| SPINNER       | C-3535-1P       | SPINNER ASSEMBLY             | 1        | Prop    |  |
| SPIN MTG KIT  | A-2476-7        | SPINNER - MTG KIT            | 1        | Prop    |  |
| MTG BOLT/STUD | A-2429-4        | STUD, MOUNTING, 1/2-20       | 6        | Prop    | Use w/E-7154-2R Hub Only                   |
| MTG BOLT/STUD | A-2429-7        | STUD, MOUNTING, 1/2-20       | 6        | Prop    | Use with E-7154-12R & E-7154-42R hubs only |
| OVERHAUL KIT  | PHC-C3YF-1RF*1  | O/H KIT W/O SLIMSERTS        | 1        | Prop    | For aftermarket use only                   |
| OVERHAUL KIT  | PHC-C3YF-1RF-OH | O/H KIT                      | 1        | Prop    | For aftermarket use only                   |

**IDS No.:** 1085      **Rev.:** 2      **IC Date:** 07/16/2015

**Modifier:** DAVIS AVIATION SERVICES  
**Engine Model:** IO-550-D  
**Power:** 300 HP @ 2700 RPM  
**Placard/Restr:** Approved for both land and float operation  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 31.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

**CESSNA**

**Model:** 180, 180(A-H), J, K  
**Trade Name:** SKYWAGON  
**Aircraft T.C./STC:** STC-SA00785AT  
**Propeller Model:** PHC-C3YF-1RF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** F7691  
**Prop Diameter:** 78.0" TO 77.0"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.4 +-0.1  
**Stud Protrusion** 1.450 +-0.030

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number     | Description                  | Quantity | Qty Per | Comments                 |
|---------------|-----------------|------------------------------|----------|---------|--------------------------|
| PROPELLER     | C3F00027        | PHC-C3YF-1RF/F7691/SM7       | 1        | A/C     |                          |
| BLADE         | F7691           | PCP:BLADE UNIT, ALUM [1,1,5] | 3        | Prop    |                          |
| SPINNER       | C-3535-1P       | SPINNER ASSEMBLY             | 1        | Prop    |                          |
| SPIN MTG KIT  | A-2476-7        | SPINNER - MTG KIT            | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2429-4        | STUD, MOUNTING, 1/2-20       | 6        | Prop    |                          |
| OVERHAUL KIT  | PHC-C3YF-1RF*1  | O/H KIT W/O SLIMSERTS        | 1        | Prop    | For aftermarket use only |
| OVERHAUL KIT  | PHC-C3YF-1RF-OH | O/H KIT                      | 1        | Prop    | For aftermarket use only |

**IDS No.:** 1459      **Rev.:** 2      **IC Date:** 02/12/2020

**Modifier:** Air Plains Services  
**Engine Model:** IO-550-D  
**Power:** 300 HP @ 2700 RPM  
**Placard/Restr:** Approved for both land and float operation  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 31.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**



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**CESSNA**

**Model:** 180, 180(A-H), J, K  
**Trade Name:** SKYWAGON  
**Aircraft T.C./STC:** STC-SA00852AT  
**Propeller Model:** PHC-C3YF-1RF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** F7691  
**Prop Diameter:** 78.0" TO 77.0"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.5 +- 0.1  
**Stud Protrusion** 1.450 +-0.030

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number | Description                  | Quantity | Qty Per | Comments |
|---------------|-------------|------------------------------|----------|---------|----------|
| BLADE         | F7691       | PCP:BLADE UNIT, ALUM [1,1,5] | 3        | Prop    |          |
| SPINNER       | C-3535-1P   | SPINNER ASSEMBLY             | 1        | Prop    |          |
| SPIN MTG KIT  | A-2476-7    | SPINNER - MTG KIT            | 1        | Prop    |          |
| MTG BOLT/STUD | A-2429-4    | STUD, MOUNTING, 1/2-20       | 6        | Prop    |          |

**IDS No.:** 1460      **Rev.:** 1      **BC Date:** 07/24/2014

**Modifier:** HARTZELL PROPELLER  
**Engine Model:** O-470-K, -L, -R, -S  
**Power:** 230 HP @ 2600 RPM  
**Placard/Restr:**  
**Notes:** Engine Ratings Note: O-470-A,-J (225hp);  
 Approved for landplane operation only.

**Startlock Angle:** NA  
**Feather/High Angle:** 31.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

**CESSNA**

**Model:** 180, 180(A-H), J, K  
**Trade Name:** SKYWAGON  
**Aircraft T.C./STC:** STC-SA00852AT  
**Propeller Model:** PHC-C3YF-1RF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** F7691  
**Prop Diameter:** 78.0" TO 77.0"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 14.1 +-0.1  
**Stud Protrusion** 1.450 +-0.030

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number     | Description                  | Quantity | Qty Per | Comments                                   |
|---------------|-----------------|------------------------------|----------|---------|--|
| PROPELLER     | C3F00022        | PHC-C3YF-1RF/F7691/SM7       | 1        | A/C     |  |
| PROPELLER     | C3F00022KD      | PHC-C3YF-1RF/F7691/SM7       | 1        | A/C     |  |
| BLADE         | F7691           | PCP:BLADE UNIT, ALUM [1,1,5] | 3        | Prop    |  |
| SPINNER       | C-3535-1P       | SPINNER ASSEMBLY             | 1        | Prop    |  |
| SPIN MTG KIT  | A-2476-7        | SPINNER - MTG KIT            | 1        | Prop    |  |
| MTG BOLT/STUD | A-2429-4        | STUD, MOUNTING, 1/2-20       | 6        | Prop    | Use w/E-7154-2R Hub Only                   |
| MTG BOLT/STUD | A-2429-7        | STUD, MOUNTING, 1/2-20       | 6        | Prop    | Use with E-7154-12R & E-7154-42R hubs only |
| OVERHAUL KIT  | PHC-C3YF-1RF*1  | O/H KIT W/O SLIMSERTS        | 1        | Prop    | For aftermarket use only                   |
| OVERHAUL KIT  | PHC-C3YF-1RF-OH | O/H KIT                      | 1        | Prop    | For aftermarket use only                   |

**IDS No.:** 1576      **Rev.:** 3      **IC Date:** 07/16/2015

**Modifier:** HARTZELL PROPELLER  
**Engine Model:** O-470-U  
**Power:** 230 HP @ 2400 RPM  
**Placard/Restr:**  
**Notes:** Approved for landplane operation only.

**Startlock Angle:** NA  
**Feather/High Angle:** 31.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

# HARTZELL

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**CESSNA**

**Model:** 180, 180(A-H), J, K  
**Trade Name:** SKYWAGON  
**Aircraft T.C./STC:** STC-SA00852AT  
**Propeller Model:** PHC-C3YF-1RF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** F8468A-6R  
**Prop Diameter:** 80.0" TO 78.0"

**IDS No.:** 1461      **Rev.:** 4      **IC Date:** 03/22/2018

**Modifier:** HARTZELL PROPELLER  
**Engine Model:** O-470-A, J, K, L, R, S  
**Power:** 230 HP @ 2600 RPM  
**Placard/Restr:**

**Notes:** Engine Ratings Note: O-470-A,J (225 HP). Approved for both landplane and floatplane operation.

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 10.9 +-0.1  
**Stud Protrusion** 1.450 +-0.030

**Startlock Angle:** NA  
**Feather/High Angle:** 31.0 +-1.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>           | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>                            |
|------------------|--------------------|------------------------------|-----------------|----------------|--|
| PROPELLER        | C3F00001           | PHC-C3YF-1RF/F8468A-6R/SM7   | 1               | A/C            |  |
| PROPELLER        | C3F00001KD         | PHC-C3YF-1RF/F8468A-6R/SM7   | 1               | A/C            |  |
| PROPELLER        | C3F00001SKDTP      | C3F00001/SM7/C-3535-1P       | 1               | A/C            |  |
| PROPELLER        | C3F00001STP        | C3F00001/SM7/C-3535-1P       | 1               | A/C            |  |
| BLADE            | F8468A-6R          | PCP:BLADE UNIT, ALUM [1,1,1] | 3               | Prop           |  |
| SPINNER          | A-2295-1           | SPINNER ASSEMBLY             | 1               | A/C            |  |
| SPINNER          | A-2295-1P          | SPINNER ASSEMBLY             | 1               | A/C            |  |
| SPINNER          | C-3535-1P          | SPINNER ASSEMBLY             | 1               | Prop           |  |
| SPIN MTG KIT     | A-2476-7           | SPINNER - MTG KIT            | 1               | Prop           |  |
| MTG BOLT/STUD    | A-2429-4           | STUD, MOUNTING, 1/2-20       | 6               | Prop           | Use w/E-7154-2R Hub Only                   |
| MTG BOLT/STUD    | A-2429-7           | STUD, MOUNTING, 1/2-20       | 6               | Prop           | Use with E-7154-12R & E-7154-42R hubs only |
| OVERHAUL KIT     | PHC-C3YF-1RF*1     | O/H KIT W/O SLIMSERTS        | 1               | Prop           | For aftermarket use only                   |
| OVERHAUL KIT     | PHC-C3YF-1RF-OH    | O/H KIT                      | 1               | Prop           | For aftermarket use only                   |

# HARTZELL

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CESSNA

**Model:** 180, 180(A-H), J, K  
**Trade Name:** SKYWAGON  
**Aircraft T.C./STC:** STC-SA00852AT  
**Propeller Model:** PHC-G3YF-1RF  
**Propeller T.C.:** P55GL  
**Blade Model(s):** F8468A-6R  
**Prop Diameter:** 80.0" TO 78.0"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 10.9 +-0.1  
**Stud Protrusion** 1.450 +-0.030

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number | Description                  | Quantity | Qty Per | Comments |
|---------------|-------------|------------------------------|----------|---------|----------|
| BLADE         | F8468A-6R   | PCP:BLADE UNIT, ALUM [1,1,1] | 3        | Prop    |          |
| SPINNER       | D-5732-P    | SPINNER ASSEMBLY             | 1        | Prop    |          |
| SPIN MTG KIT  | A-2476-7    | SPINNER - MTG KIT            | 1        | Prop    |          |
| MTG BOLT/STUD | A-2429-4    | STUD, MOUNTING, 1/2-20       | 6        | Prop    |          |

**IDS No.:** 1462      **Rev.:** 1      **BC Date:** 07/24/2014

**Modifier:** HARTZELL PROPELLER  
**Engine Model:** O-470-K,L  
**Power:** 230 HP @ 2600 RPM  
**Placard/Restr:** Approved for both land and float operation  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 31.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

CESSNA

**Model:** 180, 180(A-H), J, K  
**Trade Name:** SKYWAGON  
**Aircraft T.C./STC:** STC-SA00852AT  
**Propeller Model:** PHC-G3YF-1RF  
**Propeller T.C.:** P55GL  
**Blade Model(s):** F7691  
**Prop Diameter:** 78.0" TO 77.0"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.5 +-0.1  
**Stud Protrusion** 1.450 +-0.030

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number | Description                  | Quantity | Qty Per | Comments |
|---------------|-------------|------------------------------|----------|---------|----------|
| BLADE         | F7691       | PCP:BLADE UNIT, ALUM [1,1,5] | 3        | Prop    |          |
| SPINNER       | D-5732-P    | SPINNER ASSEMBLY             | 1        | Prop    |          |
| SPIN MTG KIT  | A-2476-7    | SPINNER - MTG KIT            | 1        | Prop    |          |
| MTG BOLT/STUD | A-2429-4    | STUD, MOUNTING, 1/2-20       | 6        | Prop    |          |

**IDS No.:** 1463      **Rev.:** 1      **BC Date:** 07/24/2014

**Modifier:** HARTZELL PROPELLER  
**Engine Model:** O-470-K, -L, -R, -S  
**Power:** 230 HP @ 2600 RPM  
**Placard/Restr:**  
**Notes:** Engine Ratings Note: O-470-A,-J (225hp).  
 Approved for landplane operation only.

**Startlock Angle:** NA  
**Feather/High Angle:** 31.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

# HARTZELL

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**CESSNA**

**Model:** 180, 180(A-H), J, K  
**Trade Name:** SKYWAGON  
**Aircraft T.C./STC:** STC-SA00852AT  
**Propeller Model:** PHC-G3YF-1RF  
**Propeller T.C.:** P55GL  
**Blade Model(s):** F7691  
**Prop Diameter:** 78.0" TO 77.0"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 14.1 +-0.1  
**Stud Protrusion** 1.450 +-0.030

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number | Description                  | Quantity | Qty Per | Comments |
|---------------|-------------|------------------------------|----------|---------|----------|
| BLADE         | F7691       | PCP:BLADE UNIT, ALUM [1,1,5] | 3        | Prop    |          |
| SPINNER       | D-5732-P    | SPINNER ASSEMBLY             | 1        | Prop    |          |
| SPIN MTG KIT  | A-2476-7    | SPINNER - MTG KIT            | 1        | Prop    |          |
| MTG BOLT/STUD | A-2429-4    | STUD, MOUNTING, 1/2-20       | 6        | Prop    |          |

**IDS No.:** 1577      **Rev.:** 1      **BC Date:** 07/24/2014

**Modifier:** HARTZELL PROPELLER  
**Engine Model:** O-470-U  
**Power:** 230 HP @ 2400 RPM  
**Placard/Restr:**

**Notes:** Approved for landplane operation only.

**Startlock Angle:** NA  
**Feather/High Angle:** 31.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

**CESSNA**

**Model:** 180, 180(A-H), J, K  
**Trade Name:** SKYWAGON  
**Aircraft T.C./STC:** STC-SA00852AT  
**Propeller Model:** PHC-C3YF-1RF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** F8468A-6R  
**Prop Diameter:** 80.0" TO 78.0"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.0 +-0.1  
**Stud Protrusion** 1.450 +-0.030

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number     | Description                  | Quantity | Qty Per | Comments                                   |
|---------------|-----------------|------------------------------|----------|---------|--|
| PROPELLER     | C3F00890        | PHC-C3YF-1RF/F8468A-6R/SM7   | 0        |         |  |
| PROPELLER     | C3F00890KD      | PHC-C3YF-1RF/F8468A-6R/SM7   | 0        |         |  |
| BLADE         | F8468A-6R       | PCP:BLADE UNIT, ALUM [1,1,1] | 3        | Prop    |  |
| SPINNER       | A-2295-1        | SPINNER ASSEMBLY             | 1        | Prop    |  |
| SPINNER       | A-2295-1P       | SPINNER ASSEMBLY             | 1        | Prop    |  |
| SPINNER       | C-3535-1        | SPINNER ASSEMBLY             | 1        | Prop    |  |
| SPINNER       | C-3535-1P       | SPINNER ASSEMBLY             | 1        | Prop    |  |
| SPIN MTG KIT  | A-2476-7        | SPINNER - MTG KIT            | 1        | Prop    |  |
| MTG BOLT/STUD | A-2429-4        | STUD, MOUNTING, 1/2-20       | 6        | Prop    | Use w/E-7154-2R Hub Only                   |
| MTG BOLT/STUD | A-2429-7        | STUD, MOUNTING, 1/2-20       | 6        | Prop    | Use with E-7154-12R & E-7154-42R hubs only |
| OVERHAUL KIT  | PHC-C3YF-1RF*1  | O/H KIT W/O SLIMSERTS        | 1        | Prop    | For aftermarket use only                   |
| OVERHAUL KIT  | PHC-C3YF-1RF-OH | O/H KIT                      | 1        | Prop    | For aftermarket use only                   |

**IDS No.:** 2766      **Rev.:** 3      **IC Date:** 07/16/2015

**Modifier:** HARTZELL PROPELLER  
**Engine Model:** O-470-U  
**Power:** 230 HP @ 2600 RPM  
**Placard/Restr:**

**Notes:** Approved for both landplane and floatplane operation.

**Startlock Angle:** NA  
**Feather/High Angle:** 31.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

# HARTZELL

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**CESSNA**

**Model:** 180, 180(A-H), J, K  
**Trade Name:** SKYWAGON  
**Aircraft T.C./STC:** STC-SA01345AT  
**Propeller Model:** PHC-C3YF-1RF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** F8468A-6R  
**Prop Diameter:** 80.0" TO 78.0"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 10.4 +-0.1  
**Stud Protrusion** 1.450 +-0.030

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number | Description                  | Quantity | Qty Per | Comments |
|---------------|-------------|------------------------------|----------|---------|----------|
| BLADE         | F8468A-6R   | PCP:BLADE UNIT, ALUM [1,1,1] | 3        | Prop    |          |
| SPINNER       | C-3535-1P   | SPINNER ASSEMBLY             | 1        | Prop    |          |
| SPIN MTG KIT  | A-2476-7    | SPINNER - MTG KIT            | 1        | Prop    |          |
| MTG BOLT/STUD | A-2429-4    | STUD, MOUNTING, 1/2-20       | 6        | Prop    |          |

**IDS No.:** 1465      **Rev.:** -      **DM Date:** 06/28/2005

**Modifier:** DAVIS AVIATION SERVICES  
**Engine Model:** IO-520-D  
**Power:** 285 HP @ 2700 RPM  
**Placard/Restr:** Approved for both land and float operation  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 31.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

**CESSNA**

**Model:** 180, 180(A-H), J, K  
**Trade Name:** SKYWAGON  
**Aircraft T.C./STC:** STC-SA01345AT  
**Propeller Model:** PHC-C3YF-1RF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** F7691  
**Prop Diameter:** 78.0" TO 77.0"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 11.8 +-0.1  
**Stud Protrusion** 1.450 +-0.030

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number | Description                  | Quantity | Qty Per | Comments |
|---------------|-------------|------------------------------|----------|---------|----------|
| BLADE         | F7691       | PCP:BLADE UNIT, ALUM [1,1,5] | 3        | Prop    |          |
| SPINNER       | C-3535-1P   | SPINNER ASSEMBLY             | 1        | Prop    |          |
| SPIN MTG KIT  | A-2476-7    | SPINNER - MTG KIT            | 1        | Prop    |          |
| MTG BOLT/STUD | A-2429-4    | STUD, MOUNTING, 1/2-20       | 6        | Prop    |          |

**IDS No.:** 1466      **Rev.:** -      **DM Date:** 06/28/2005

**Modifier:** DAVIS AVIATION SERVICES  
**Engine Model:** IO-520-D  
**Power:** 285 HP @ 2700 RPM  
**Placard/Restr:** Approved for both land and float operation  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 31.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

# HARTZELL

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**CESSNA**

**Model:** 180, 180(A-H), J, K  
**Trade Name:** SKYWAGON  
**Aircraft T.C./STC:** STC-SA01442AT  
**Propeller Model:** PHC-C3YF-1RF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** F7691  
**Prop Diameter:** 78.0" TO 77.0"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.9 +- 0.1  
**Stud Protrusion** 1.450 +-0.030

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number | Description                  | Quantity | Qty Per | Comments |
|---------------|-------------|------------------------------|----------|---------|----------|
| BLADE         | F7691       | PCP:BLADE UNIT, ALUM [1,1,5] | 3        | Prop    |          |
| SPINNER       | C-3535-1P   | SPINNER ASSEMBLY             | 1        | Prop    |          |
| SPIN MTG KIT  | A-2476-7    | SPINNER - MTG KIT            | 1        | Prop    |          |
| MTG BOLT/STUD | A-2429-4    | STUD, MOUNTING, 1/2-20       | 6        | Prop    |          |

**IDS No.:** 1464      **Rev.:** -      **DM Date:** 07/19/2005

**Modifier:** DAVIS AVIATION SERVICES  
**Engine Model:** O-470-U (with STC SE1153AT)  
**Power:** 252 HP @ 2625 RPM  
**Placard/Restr:** Approved for both land and float operation  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 31.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

**CESSNA**

**Model:** 180C,D,E,F  
**Trade Name:** SKYWAGON  
**Aircraft T.C./STC:** 5A6  
**Propeller Model:** (B)HC-A2MVF-1A  
**Propeller T.C.:** P24EA  
**Blade Model(s):** MV8433N  
 MV8833N  
**Prop Diameter:** 8433; 84" to 82", 8833 NO CUT

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.0 +-0.2  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number | Description                   | Quantity | Qty Per | Comments |
|---------------|-------------|-------------------------------|----------|---------|----------|
| BLADE         | MV8433N     | PCP:BLADE UNIT, ALUM [1,1,1]  | 2        | Prop    |          |
| BLADE         | MV8833N     | PCP:BLADE UNIT, ALUM [1,1,1]  | 2        | Prop    |          |
| SPINNER       | 835-13      | SPINNER ASSEMBLY              | 1        | Prop    |          |
| MTG BOLT/STUD | A-1328-1    | BOLT,MOUNTING,1/2-20,12 POINT | 6        | Prop    |          |

**IDS No.:** 1640      **Rev.:** 1      **D Date:** 01/10/2011

**Modifier:**  
**Engine Model:** O-470-L  
**Power:** 230 HP @ 2600 RPM  
**Placard/Restr:**  
**Notes:** WT 8833- 64 LBS

**Startlock Angle:** NA  
**Feather/High Angle:** 24.0 +-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:** WOODWARD

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CESSNA

Model: 180C,D,E,F  
Trade Name: SKYWAGON  
Aircraft T.C./STC: 5A6  
Propeller Model: BHC-A2XF-1A  
Propeller T.C.: P908  
Blade Model(s):  
Prop Diameter:

### Prop Setup:

Ref. Radius: 30  
Reverse Angle: NA  
Low Pitch Angle: 12.0 +-0.2  
Stud Protrusion

### Non-HPI Items:

Non-HPI Spinner:

### Hartzell Approved Items:

IDS No.: 2367 Rev.: - DM Date: 12/01/2003

Modifier:  
Engine Model: O-470-L  
Power: HP @ RPM  
Placard/Restr:  
Notes:

Startlock Angle: NA  
Feather/High Angle: 24.0 +-0.5  
Cwt Angle:

Non-HPI Governor:

CESSNA

Model: 180C,D,E,F  
Trade Name: SKYWAGON  
Aircraft T.C./STC: 5A6  
Propeller Model: HC-82XF-1DB1  
Propeller T.C.: P878  
Blade Model(s): 8433  
Prop Diameter:

### Prop Setup:

Ref. Radius: 30  
Reverse Angle: NA  
Low Pitch Angle: 12.0 +-0.2  
Stud Protrusion

### Non-HPI Items:

Non-HPI Spinner:

### Hartzell Approved Items:

IDS No.: 2368 Rev.: - DM Date: 12/01/2003

Modifier:  
Engine Model: O-470-L  
Power: HP @ RPM  
Placard/Restr:  
Notes:

Startlock Angle: NA  
Feather/High Angle: 24.0 +-0.5  
Cwt Angle:

Non-HPI Governor:

| Item Type | Item Number | Description | Quantity | Qty Per | Comments |
|-----------|-------------|-------------|----------|---------|----------|
| BLADE     | 8433        | BLADE       | 2        | Prop    |          |

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CESSNA

**Model:** 180C,D,E,F  
**Trade Name:** SKYWAGON  
**Aircraft T.C./STC:** 5A6  
**Propeller Model:** HC-A2VF-1A  
**Propeller T.C.:** P24EA  
**Blade Model(s):** V8833  
V8833N

**Prop Diameter:**

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.0 +-0.2  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 2369      **Rev.:** -      **DM Date:** 12/01/2003

**Modifier:**

**Engine Model:** O-470-L

**Power:** HP @ RPM

**Placard/Restr:**

**Notes:**

**Startlock Angle:** NA

**Feather/High Angle:** 24.0 +-0.5

**Cwt Angle:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u> | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|--------------------|-----------------|----------------|-----------------|
| BLADE            | V8833              | BLADE UNIT         | 2               | Prop           |                 |
| BLADE            | V8833N             | BLADE UNIT         | 2               | Prop           |                 |



# HARTZELL

## APPLICATION GUIDE

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CESSNA

IDS No.: 1423 Rev.: 3 IC Date: 08/12/2021

**Model:** 182  
**Trade Name:** SKYLANE  
**Aircraft T.C./STC:** STC-SA09000SC  
**Propeller Model:** PHC-G3YF-1RF  
**Propeller T.C.:** P55GL

**Modifier:** HARTZELL PROPELLER  
**Engine Model:** O-470-L, -R, -S  
**Power:** 230 HP @ 2600 RPM  
**Placard/Restr:** Refer to 8110-3 and/or STC for further information.

**Blade Model(s):** F7691  
 F7691\*1  
 F7691\*3  
**Prop Diameter:** 78.0" TO 77.0"

**Notes:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.7 +-0.2  
**Stud Protrusion** 1.450 +-0.030

**Startlock Angle:** NA  
**Feather/High Angle:** 33.0 +-1.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type     | Item Number     | Description                    | Quantity | Qty Per | Comments                                   |
|---------------|-----------------|--------------------------------|----------|---------|--|
| PROPELLER     | G3F00006        | PHC-G3YF-1RF/F7691/SM25        | 1        | A/C     |  |
| PROPELLER     | G3F00006KD      | PHC-G3YF-1RF/F7691/SM25        | 1        | A/C     |  |
| PROPELLER     | G3F00006SKDTP   | G3F00006/SM25/D-4798-3P        | 1        | A/C     |  |
| PROPELLER     | G3F00006SKDTP*1 | G3F00006/SM25/D-4798-1P        | 1        | A/C     |  |
| PROPELLER     | G3F00006STP     | G3F00006/SM25/D-4798-3P        | 1        | A/C     |  |
| PROPELLER     | G3F00006STP*1   | G3F00006/SM25/D-4798-1P        | 1        | A/C     |  |
| PROPELLER     | G3F00106S       | PHC-G3YF-1RF/F7691*3/D-4798-1P | 1        | Prop    |  |
| BLADE         | F7691           | PCP:BLADE UNIT, ALUM [1,1,5]   | 3        | Prop    |  |
| BLADE         | F7691*1         | PCP:BLADE UNIT, ALUM [3,1,5]   | 3        | Prop    |  |
| BLADE         | F7691*3         | PCP:BLADE UNIT, ALUM [3,1,12]  | 3        | Prop    | Black blade with white slanted tip stripes |
| SPINNER       | D-4798-1        | SPINNER ASSEMBLY               | 1        | Prop    |  |
| SPINNER       | D-4798-1P       | SPINNER ASSEMBLY               | 1        | Prop    |  |
| SPINNER       | D-4798-3        | SPINNER ASSEMBLY               | 1        | Prop    |  |
| SPINNER       | D-4798-3P       | SPINNER ASSEMBLY               | 1        | Prop    |  |
| SPINNER       | D-5732          | IDS Item                       | 1        | Prop    |  |
| SPINNER       | D-5732-P        | SPINNER ASSEMBLY               | 1        | Prop    |  |
| SPIN MTG KIT  | A-2476-25       | SPINNER - MTG KIT              | 1        | Prop    |  |
| MTG BOLT/STUD | A-2429-4        | STUD, MOUNTING, 1/2-20         | 6        | Prop    |  |
| OVERHAUL KIT  | PHC-G3YF-1RF-OH | O/H KIT                        | 1        | Prop    | For aftermarket use only                   |

# HARTZELL

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**CESSNA**

**Model:** 182  
**Trade Name:** SKYLANE  
**Aircraft T.C./STC:** STC-SA09000SC  
**Propeller Model:** PHC-G3YF-1RF  
**Propeller T.C.:** P55GL

**Blade Model(s):** F7691  
**Prop Diameter:** 78.0" TO 77.0"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.7 +-0.2  
**Stud Protrusion** 1.450 +-0.030

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number     | Description                  | Quantity | Qty Per | Comments                 |
|---------------|-----------------|------------------------------|----------|---------|--------------------------|
| PROPELLER     | G3F00017        | PHC-G3YF-1RF/F7691/SM7       | 1        | A/C     |                          |
| BLADE         | F7691           | PCP:BLADE UNIT, ALUM [1,1,5] | 3        | Prop    |                          |
| SPINNER       | C-4582          | SPINNER ASSEMBLY             | 1        | Prop    |                          |
| SPINNER       | C-4582-P        | SPINNER ASSEMBLY             | 1        | Prop    |                          |
| SPIN MTG KIT  | A-2476-7        | SPINNER - MTG KIT            | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2429-4        | STUD, MOUNTING, 1/2-20       | 6        | Prop    |                          |
| OVERHAUL KIT  | PHC-G3YF-1RF-OH | O/H KIT                      | 1        | Prop    | For aftermarket use only |

**IDS No.:** 1678      **Rev.:** 2      **IC Date:** 07/16/2015

**Modifier:** HARTZELL PROPELLER  
**Engine Model:** O-470-L, -R, -S  
**Power:** 230 HP @ 2600 RPM  
**Placard/Restr:** Refer to 8110-3 and/or STC for further information.

**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 33.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

**CESSNA**

**Model:** 182  
**Trade Name:** SKYLANE  
**Aircraft T.C./STC:** STC-SA09001SC  
**Propeller Model:** PHC-G3YF-1RF  
**Propeller T.C.:** P55GL

**Blade Model(s):** F7691  
**Prop Diameter:** 78.0" TO 77.0"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 15.5 +-0.2  
**Stud Protrusion** 1.450 +-0.030

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number | Description                  | Quantity | Qty Per | Comments        |
|---------------|-------------|------------------------------|----------|---------|-----------------|
| BLADE         | F7691       | PCP:BLADE UNIT, ALUM [1,1,5] | 3        | Prop    |                 |
| SPINNER       | C-4582      | SPINNER ASSEMBLY             | 1        | Prop    |                 |
| SPINNER       | C-4582-P    | SPINNER ASSEMBLY             | 1        | Prop    |                 |
| SPINNER       | D-5732      | IDS Item                     | 1        | Prop    |                 |
| SPINNER       | D-5732-P    | SPINNER ASSEMBLY             | 1        | Prop    |                 |
| SPIN MTG KIT  | A-2476-25   | SPINNER - MTG KIT            | 1        | Prop    |                 |
| SPIN MTG KIT  | A-2476-7    | SPINNER - MTG KIT            | 1        | Prop    | Used w/ C-4582P |
| MTG BOLT/STUD | A-2429-4    | STUD, MOUNTING, 1/2-20       | 6        | Prop    |                 |

**IDS No.:** 1084      **Rev.:** -      **DM Date:** 02/19/2003

**Modifier:** TEXAS SKYWAYS  
**Engine Model:** O-470-L, -R, -S  
**Power:** 230 HP @ 2600 RPM  
**Placard/Restr:** Refer to 8110-3 and/or STC for further information.

**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 33.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

# HARTZELL

CESSNA

**Model:** 182  
**Trade Name:** SKYLANE  
**Aircraft T.C./STC:** STC-SA09001SC  
**Propeller Model:** PHC-G3YF-1RF  
**Propeller T.C.:** P55GL

**Blade Model(s):** F7691  
**Prop Diameter:** 78.0" TO 77.0"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 15.0 +-0.2  
**Stud Protrusion** 1.450 +-0.030

### Non-HPI Items:

**Non-HPI Spinner:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>           | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|------------------------------|-----------------|----------------|-----------------|
| BLADE            | F7691              | PCP:BLADE UNIT, ALUM [1,1,5] | 3               | Prop           |                 |
| SPINNER          | C-4582             | SPINNER ASSEMBLY             | 1               | Prop           |                 |
| SPINNER          | C-4582-P           | SPINNER ASSEMBLY             | 1               | Prop           |                 |
| SPINNER          | D-5732             | IDS Item                     | 1               | Prop           |                 |
| SPINNER          | D-5732-P           | SPINNER ASSEMBLY             | 1               | Prop           |                 |
| SPIN MTG KIT     | A-2476-25          | SPINNER - MTG KIT            | 1               | Prop           |                 |
| SPIN MTG KIT     | A-2476-7           | SPINNER - MTG KIT            | 1               | Prop           | Used w/ C-4582P |
| MTG BOLT/STUD    | A-2429-4           | STUD, MOUNTING, 1/2-20       | 6               | Prop           |                 |

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**IDS No.:** 1572      **Rev.:** -      **DM Date:** 02/19/2003

**Modifier:** TEXAS SKYWAYS  
**Engine Model:** O-470-U  
**Power:** 230 HP @ 2600 RPM  
**Placard/Restr:** Refer to 8110-3 and/or STC for further information.

### **Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 33.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

# HARTZELL

## APPLICATION GUIDE

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**CESSNA**

**Model:** 182  
**Trade Name:** SKYLANE  
**Aircraft T.C./STC:** STC-SA09001SC  
**Propeller Model:** PHC-G3YF-1RF  
**Propeller T.C.:** P55GL

**Blade Model(s):** F7691  
**Prop Diameter:** 78.0" TO 77.0"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.5 +-0.2  
**Stud Protrusion** 1.450 +-0.030

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number | Description                  | Quantity | Qty Per | Comments        |
|---------------|-------------|------------------------------|----------|---------|-----------------|
| BLADE         | F7691       | PCP:BLADE UNIT, ALUM [1,1,5] | 3        | Prop    |                 |
| SPINNER       | C-4582      | SPINNER ASSEMBLY             | 1        | Prop    |                 |
| SPINNER       | C-4582-P    | SPINNER ASSEMBLY             | 1        | Prop    |                 |
| SPINNER       | D-5732      | IDS Item                     | 1        | Prop    |                 |
| SPINNER       | D-5732-P    | SPINNER ASSEMBLY             | 1        | Prop    |                 |
| SPIN MTG KIT  | A-2476-25   | SPINNER - MTG KIT            | 1        | Prop    |                 |
| SPIN MTG KIT  | A-2476-7    | SPINNER - MTG KIT            | 1        | Prop    | Used w/ C-4582P |
| MTG BOLT/STUD | A-2429-4    | STUD, MOUNTING, 1/2-20       | 6        | Prop    |                 |

**IDS No.:** 1573      **Rev.:** -      **DM Date:** 02/19/2003

**Modifier:** TEXAS SKYWAYS  
**Engine Model:** O-470-U/TS  
**Power:** HP @ RPM  
**Placard/Restr:** Refer to 8110-3 and/or STC for further information.

**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 33.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

**CESSNA**

**Model:** 182Q, R  
**Trade Name:** SKYLANE  
**Aircraft T.C./STC:** STC-SA09000SC  
**Propeller Model:** PHC-G3YF-1RF  
**Propeller T.C.:** P55GL

**Blade Model(s):** F7691  
**Prop Diameter:** 78.0" TO 77.0"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 15.0 +-0.2  
**Stud Protrusion** 1.450 +-0.030

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number     | Description                  | Quantity | Qty Per | Comments                 |
|---------------|-----------------|------------------------------|----------|---------|--------------------------|
| PROPELLER     | G3F00005        | PHC-G3YF-1RF/F7691/SM25      | 1        | A/C     |                          |
| BLADE         | F7691           | PCP:BLADE UNIT, ALUM [1,1,5] | 3        | Prop    |                          |
| SPINNER       | D-5732          | IDS Item                     | 1        | Prop    |                          |
| SPINNER       | D-5732-P        | SPINNER ASSEMBLY             | 1        | Prop    |                          |
| SPIN MTG KIT  | A-2476-25       | SPINNER - MTG KIT            | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2429-4        | STUD, MOUNTING, 1/2-20       | 6        | Prop    |                          |
| OVERHAUL KIT  | PHC-G3YF-1RF-OH | O/H KIT                      | 1        | Prop    | For aftermarket use only |

**IDS No.:** 1552      **Rev.:** 2      **IC Date:** 07/16/2015

**Modifier:** HARTZELL PROPELLER  
**Engine Model:** O-470-U  
**Power:** 230 HP @ 2400 RPM  
**Placard/Restr:** Refer to 8110-3 and/or STC for further information.

**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 33.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

# HARTZELL

## APPLICATION GUIDE

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**CESSNA**

**Model:** 182Q, R  
**Trade Name:** SKYLANE  
**Aircraft T.C./STC:** STC-SA09000SC  
**Propeller Model:** PHC-G3YF-1RF  
**Propeller T.C.:** P55GL

**Blade Model(s):** F7691  
**Prop Diameter:** 78.0" TO 77.0"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 15.0 +-0.2  
**Stud Protrusion** 1.450 +-0.030

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number     | Description                  | Quantity | Qty Per | Comments                 |
|---------------|-----------------|------------------------------|----------|---------|--------------------------|
| PROPELLER     | G3F00015        | PHC-G3YF-1RF/F7691/SM7       | 1        | A/C     |                          |
| BLADE         | F7691           | PCP:BLADE UNIT, ALUM [1,1,5] | 3        | Prop    |                          |
| SPINNER       | C-4582          | SPINNER ASSEMBLY             | 1        | Prop    |                          |
| SPINNER       | C-4582-P        | SPINNER ASSEMBLY             | 1        | Prop    |                          |
| SPIN MTG KIT  | A-2476-7        | SPINNER - MTG KIT            | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2429-4        | STUD, MOUNTING, 1/2-20       | 6        | Prop    |                          |
| OVERHAUL KIT  | PHC-G3YF-1RF-OH | O/H KIT                      | 1        | Prop    | For aftermarket use only |

**IDS No.:** 1676      **Rev.:** 2      **IC Date:** 07/16/2015

**Modifier:** HARTZELL PROPELLER  
**Engine Model:** O-470-U  
**Power:** 230 HP @ 2400 RPM  
**Placard/Restr:** Refer to 8110-3 and/or STC for further information.

**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 33.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

**CESSNA**

**Model:** 182  
**Trade Name:** SKYLANE  
**Aircraft T.C./STC:** STC-SA09001SC  
**Propeller Model:** PHC-G3YF-1RF  
**Propeller T.C.:** P55GL

**Blade Model(s):** F7691  
**Prop Diameter:** 78.0" TO 77.0"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.0 +-0.2  
**Stud Protrusion** 1.450 +-0.030

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number | Description                  | Quantity | Qty Per | Comments        |
|---------------|-------------|------------------------------|----------|---------|-----------------|
| BLADE         | F7691       | PCP:BLADE UNIT, ALUM [1,1,5] | 3        | Prop    |                 |
| SPINNER       | C-4582      | SPINNER ASSEMBLY             | 1        | Prop    |                 |
| SPINNER       | C-4582-P    | SPINNER ASSEMBLY             | 1        | Prop    |                 |
| SPINNER       | D-5732      | IDS Item                     | 1        | Prop    |                 |
| SPINNER       | D-5732-P    | SPINNER ASSEMBLY             | 1        | Prop    |                 |
| SPIN MTG KIT  | A-2476-25   | SPINNER - MTG KIT            | 1        | Prop    |                 |
| SPIN MTG KIT  | A-2476-7    | SPINNER - MTG KIT            | 1        | Prop    | Used w/ C-4582P |
| MTG BOLT/STUD | A-2429-4    | STUD, MOUNTING, 1/2-20       | 6        | Prop    |                 |

**IDS No.:** 1574      **Rev.:** -      **DM Date:** 02/19/2003

**Modifier:** TEXAS SKYWAYS  
**Engine Model:** O-470-50  
**Power:** HP @ RPM  
**Placard/Restr:** Refer to 8110-3 and/or STC for further information.

**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 33.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

# HARTZELL

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CESSNA

**Model:** 182  
**Trade Name:** SKYLANE  
**Aircraft T.C./STC:** SA09026SC  
**Propeller Model:** PHC-C3YF-1RF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** F8068  
**Prop Diameter:** 82

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.7 +-0.2  
**Stud Protrusion** 1.450 +-0.030

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number     | Description                  | Quantity | Qty Per | Comments                                   |
|---------------|-----------------|------------------------------|----------|---------|--|
| PROPELLER     | C3F00033        | PHC-C3YF-1RF/F8068/SM7       | 1        | A/C     |  |
| BLADE         | F8068           | PCP:BLADE UNIT, ALUM [1,1,5] | 3        | Prop    |  |
| SPINNER       | C-4582-P        | SPINNER ASSEMBLY             | 1        | A/C     |  |
| SPINNER       | D-5732-P        | SPINNER ASSEMBLY             | 1        | A/C     |  |
| SPIN MTG KIT  | A-2476-7        | SPINNER - MTG KIT            | 1        | Prop    |  |
| MTG BOLT/STUD | A-2429-4        | STUD, MOUNTING, 1/2-20       | 6        | Prop    | Use w/E-7154-2R Hub Only                   |
| MTG BOLT/STUD | A-2429-7        | STUD, MOUNTING, 1/2-20       | 6        | Prop    | Use with E-7154-12R & E-7154-42R hubs only |
| OVERHAUL KIT  | PHC-C3YF-1RF*1  | O/H KIT W/O SLIMSERTS        | 1        | Prop    | For aftermarket use only                   |
| OVERHAUL KIT  | PHC-C3YF-1RF-OH | O/H KIT                      | 1        | Prop    | For aftermarket use only                   |

**IDS No.:** 2485      **Rev.:** 2      **IC Date:** 07/16/2015

**Modifier:** TEXAS SKYWAYS  
**Engine Model:** O-520-F/TS, O-520-U/TS  
**Power:** 285 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 33.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

CESSNA

**Model:** 182  
**Trade Name:** SKYLANE  
**Aircraft T.C./STC:** SA09026SC  
**Propeller Model:** HC-G3YF-1RF  
**Propeller T.C.:** P55GL  
**Blade Model(s):** F8068  
**Prop Diameter:** 82"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.7 +-0.2  
**Stud Protrusion** 1.450 +-0.030

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number | Description                  | Quantity | Qty Per | Comments |
|---------------|-------------|------------------------------|----------|---------|----------|
| PROPELLER     | G3F00500    | HC-G3YF-1RF/F8068/SM25       | 1        | A/C     |          |
| PROPELLER     | G3F00500KD  | HC-G3YF-1RF/F8068/SM25       | 1        | A/C     |          |
| BLADE         | F8068       | PCP:BLADE UNIT, ALUM [1,1,5] | 3        | Prop    |          |
| SPINNER       | D-5732-P    | SPINNER ASSEMBLY             | 1        | Prop    |          |
| SPIN MTG KIT  | A-2476-25   | SPINNER - MTG KIT            | 1        | Prop    |          |
| MTG BOLT/STUD | A-2429-4    | STUD, MOUNTING, 1/2-20       | 6        | Prop    |          |

**IDS No.:** 2658      **Rev.:** 1      **IC Date:** 08/22/2022

**Modifier:** TEXAS SKYWAYS  
**Engine Model:** O-520-F/TS, O-520-U/TS  
**Power:** 285 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 33.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

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CESSNA

IDS No.: 2659 Rev.: 1 IC Date: 07/16/2015

Model: 182  
 Trade Name: SKYLANE  
 Aircraft T.C./STC: SA09026SC  
 Propeller Model: HC-C3YF-1RF  
 Propeller T.C.: P25EA  
 Blade Model(s): F8068  
 Prop Diameter: 82

Modifier: TEXAS SKYWAYS  
 Engine Model: O-520-F/TS, O-520-U/TS  
 Power: 285 HP @ 2700 RPM  
 Placard/Restr:  
 Notes:

### Prop Setup:

Ref. Radius: 30  
 Reverse Angle: NA  
 Low Pitch Angle: 12.7 +-0.2  
 Stud Protrusion 1.450 +-0.030

Startlock Angle: NA  
 Feather/High Angle: 33.0 +-1.0  
 Cwt Angle:

### Non-HPI Items:

Non-HPI Spinner:

Non-HPI Governor:

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>           | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|------------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | C3F00041           | HC-C3YF-1RF/F8068/SM7        | 1               | A/C            |                          |
| BLADE            | F8068              | PCP:BLADE UNIT, ALUM [1,1,5] | 3               | Prop           |                          |
| SPINNER          | C-4582-P           | SPINNER ASSEMBLY             | 1               | A/C            |                          |
| SPINNER          | D-5732-P           | SPINNER ASSEMBLY             | 1               | A/C            |                          |
| GOVERNOR         | S-1-27             | GOVERNOR ASSEMBLY, S-1-27    | 1               | A/C            |                          |
| SPIN MTG KIT     | A-2476-7           | SPINNER - MTG KIT            | 1               | Prop           |                          |
| MTG BOLT/STUD    | A-2429-4           | STUD, MOUNTING, 1/2-20       | 6               | Prop           |                          |
| OVERHAUL KIT     | HC-C3YF-1RF-OH     | O/H KIT                      | 1               | Prop           | For aftermarket use only |

# HARTZELL

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CESSNA

IDS No.: 1086 Rev.: 1 IC Date: 07/16/2015

**Model:** 182  
**Trade Name:** SKYLANE  
**Aircraft T.C./STC:** SA00152WI  
**Propeller Model:** PHC-L3YF-1RF  
**Propeller T.C.:** P41EA  
**Blade Model(s):** F7691  
                           F7691\*1  
                           F7691\*2  
**Prop Diameter:** 78"

**Modifier:** AIR PLAINS SERVICES  
**Engine Model:** IO-520-D  
**Power:** 300 HP @ 2850 RPM  
**Placard/Restr:**  
**Notes:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.6 +-0.2  
**Stud Protrusion** 1.450 +-0.030

**Startlock Angle:** NA  
**Feather/High Angle:** 27.2 +-1.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type     | Item Number     | Description                  | Quantity | Qty Per | Comments                 |
|---------------|-----------------|------------------------------|----------|---------|--------------------------|
| PROPELLER     | L3F00040        | PHC-L3YF-1RF/F7691/SM7       | 1        | A/C     |                          |
| PROPELLER     | L3F00043        | PHC-L3YF-1RF/F7691[*1]/SM7   | 1        | A/C     |                          |
| PROPELLER     | L3F00045        | PHC-L3YF-1RF/F7691[*2]/SM7   | 1        | A/C     |                          |
| BLADE         | F7691           | PCP:BLADE UNIT, ALUM [1,1,5] | 3        | Prop    |                          |
| BLADE         | F7691*1         | PCP:BLADE UNIT, ALUM [3,1,5] | 3        | Prop    |                          |
| BLADE         | F7691*2         | PCP:BLADE UNIT, ALUM [3,7,5] | 3        | Prop    |                          |
| SPINNER       | C-4582-P        | SPINNER ASSEMBLY             | 1        | Prop    |                          |
| SPIN MTG KIT  | A-2476-7        | SPINNER - MTG KIT            | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2429-4        | STUD, MOUNTING, 1/2-20       | 6        | Prop    |                          |
| OVERHAUL KIT  | PHC-L3YF-1RF-OH | O/H KIT                      | 1        | Prop    | For aftermarket use only |



# HARTZELL

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CESSNA

IDS No.: 3092      Rev.: 1      IC      Date: 07/16/2015

**Model:** 182  
**Trade Name:** Skylane  
**Aircraft T.C./STC:** SA00152WI  
**Propeller Model:** PHC-L3YF-1RF  
**Propeller T.C.:** P41EA  
**Blade Model(s):** F7691  
                           F7691\*1  
                           F7691\*2

**Modifier:** Air Plains  
**Engine Model:** IO-550-D  
**Power:** 300 HP @ 2700 RPM  
**Placard/Restr:**

**Notes:** Do not exceed 20" manifold pressure below 2250 RPM.

**Prop Diameter:** 78"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** 14.5 +/- 0.2  
**Stud Protrusion** 1.450 +/-0.030

**Startlock Angle:**  
**Feather/High Angle:** 26.8 +/- 1.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>           | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|------------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | L3F00042           | PHC-L3YF-1RF/F7691/SM7       | 1               | A/C            |                          |
| PROPELLER        | L3F00044           | PHC-L3YF-1RF/F7691[*1]/SM7   | 1               | A/C            |                          |
| PROPELLER        | L3F00046           | PHC-L3YF-1RF/F7691[*2]/SM7   | 1               | A/C            |                          |
| BLADE            | F7691              | PCP:BLADE UNIT, ALUM [1,1,5] | 3               | Prop           |                          |
| BLADE            | F7691*1            | PCP:BLADE UNIT, ALUM [3,1,5] | 3               | Prop           |                          |
| BLADE            | F7691*2            | PCP:BLADE UNIT, ALUM [3,7,5] | 3               | Prop           |                          |
| SPINNER          | C-4582-P           | SPINNER ASSEMBLY             | 1               | Prop           |                          |
| SPIN MTG KIT     | A-2476-7           | SPINNER - MTG KIT            | 1               | Prop           |                          |
| MTG BOLT/STUD    | A-2429-4           | STUD, MOUNTING, 1/2-20       | 6               | Prop           |                          |
| OVERHAUL KIT     | PHC-L3YF-1RF-OH    | O/H KIT                      | 1               | Prop           | For aftermarket use only |

# HARTZELL

## APPLICATION GUIDE 159

CESSNA

**Model:** 182S, 182T, T182T  
**Trade Name:** Skylane, Turbo Skylane  
**Aircraft T.C./STC:** SA03078CH

**Propeller Model:** HC-F3YR-1ARF

**Propeller T.C.:** P31EA

**Blade Model(s):** F8068\*4  
 F8068\*6  
 F8068K\*2

**Prop Diameter:** 82" - 78"

### Prop Setup:

**Ref. Radius:** 30

**Reverse Angle:**

**Low Pitch Angle:** 14.0 +/- 0.2

**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 2857      **Rev.:** 8      **IC Date:** 01/22/2016

**Modifier:** Hartzell Propeller Inc.

**Engine Model:** IO-540-AB1A5 @ 230 hp: (T182T: TIO-540-AK1A @ 235 hp)

**Power:** 235 HP @ 2400 RPM

**Placard/Restr:**

**Notes:**

**Startlock Angle:**

**Feather/High Angle:** 32.0 + - 1.0

**Cwt Angle:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>            | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>           |
|------------------|--------------------|-------------------------------|-----------------|----------------|---------------------------|
| PROPELLER        | F3R00600           | HC-F3YR-1ARF/F8068[*4]/SM23   | 1               | A/C            |                           |
| PROPELLER        | F3R00600KD         | HC-F3YR-1ARF/F8068[*4]/SM23   | 1               | A/C            |                           |
| PROPELLER        | F3R00625           | HC-F3YR-1ARF/F8068[*6]/SM23   | 1               | A/C            |                           |
| PROPELLER        | F3R00625KD         | HC-F3YR-1ARF/F8068[*6]/SM23   | 1               | A/C            |                           |
| PROPELLER        | F3R00650           | HC-F3YR-1ARF/F8068K[*2]/SM23  | 1               | A/C            |                           |
| PROPELLER        | F3R00650KD         | HC-F3YR-1ARF/F8068K[*2]/SM23  | 1               | A/C            |                           |
| BLADE            | F8068*4            | PCP:BLADE UNIT, ALUM [6,16,5] | 3               | Prop           |                           |
| BLADE            | F8068*6            | PCP:BLADE UNIT, ALUM [3,10,5] | 3               | Prop           |                           |
| BLADE            | F8068K*2           | PCP:BLADE UNIT, ALUM [6,16,5] | 3               | Prop           |                           |
| SPINNER          | A-2295-14P         | SPINNER ASSEMBLY              | 1               | Prop           |                           |
| SPINNER          | A-2295-3           | SPINNER ASSEMBLY              | 1               | Prop           | Used with no de-iced only |
| SPINNER          | A-2295-3P          | SPINNER ASSEMBLY              | 1               | Prop           | Used with no de-iced only |
| GOVERNOR         | S-1-52             | GOVERNOR ASSEMBLY, S-1-52     | 1               | A/C            |                           |
| SPIN MTG KIT     | A-2476-23          | SPINNER - MTG KIT             | 1               | Prop           |                           |
| DE-ICER          | 102657             | DE-ICE BOOT                   | 1               | Blade          |                           |
| DE-ICE KIT PR    | 104522             | DE-ICE KIT (ONE PROP)         | 1               | Prop           |                           |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20        | 6               | Prop           |                           |
| OVERHAUL KIT     | HC-F3YR-1ARF-OH    | O/H KIT                       | 1               | Prop           | For aftermarket use only  |

# HARTZELL

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CESSNA

IDS No.: 3138 Rev.: 5 IC Date: 07/16/2015

**Model:** R182, TR182, FR182  
**Trade Name:** SKYLANE RG  
**Aircraft T.C./STC:** SA03078CH  
**Propeller Model:** HC-C3YR-1RF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** F8068\*4  
**Prop Diameter:** 82" - 80"

**Modifier:** Hartzell Propeller Inc.  
**Engine Model:** O-540-J3C5D, O-540-L3C5D+turbo  
**Power:** 235 HP @ 2400 RPM  
**Placard/Restr:**  
**Notes:**

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** 14.0 +/- 0.2  
**Stud Protrusion**

**Startlock Angle:**  
**Feather/High Angle:** 32.0 +/- 1.0  
**Cwt Angle:**

### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>            | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|-------------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | C3R02004           | HC-C3YR-1RF/F8068[*4]/SM6     | 1               | A/C            |                          |
| PROPELLER        | C3R02004KD         | HC-C3YR-1RF/F8068[*4]/SM6     | 1               | A/C            |                          |
| BLADE            | F8068*4            | PCP:BLADE UNIT, ALUM [6,16,5] | 3               | Prop           |                          |
| SPINNER          | A-2295-3P          | SPINNER ASSEMBLY              | 1               | Prop           |                          |
| SPIN MTG KIT     | A-2476-6           | SPINNER - MTG KIT             | 1               | Prop           |                          |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20        | 6               | Prop           |                          |
| MISC ACCES       | 100803             | BALANCE WEIGHT KIT            | 1               | A/C            |                          |
| OVERHAUL KIT     | HC-C3YR-1RF-OH     | O/H KIT                       | 1               | Prop           | For aftermarket use only |

# HARTZELL

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CESSNA

IDS No.: 3081 Rev.: 7 IC Date: 07/16/2015

**Model:** FR182, R182, TR182, T182  
**Trade Name:** Skylane RG, Turbo Skylane  
**Aircraft T.C./STC:** SA03078CH  
**Propeller Model:** HC-I3YR-1RF  
**Propeller T.C.:** P33EA  
**Blade Model(s):** F7693F+2\*1  
 F7693FB+2\*2  
**Prop Diameter:** 80" - 78"

**Modifier:** Hartzell Propeller  
**Engine Model:** O-540-J3C5D, O-540-L3C5D + turbo  
**Power:** 235 HP @ 2400 RPM  
**Placard/Restr:**

**Notes:** For FR182, R182 & TR182, S/N 1314 and up. For T182, All S/N's..... De-iced propeller installation is limited to aircraft with a previously installed 3-blade propeller equipped with existing electro-thermal de-ice."

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** 14.0 +/- 0.2  
**Stud Protrusion**

**Startlock Angle:**  
**Feather/High Angle:** 32.0 +/- 1.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type     | Item Number    | Description                    | Quantity | Qty Per | Comments                      |
|---------------|----------------|--------------------------------|----------|---------|-------------------------------|
| PROPELLER     | I3R00161       | HC-I3YR-1RF/F7693F+2[*1]/SM42  | 1        | A/C     |                               |
| PROPELLER     | I3R00161KD     | HC-I3YR-1RF/F7693F+2[*1]/SM42  | 1        | A/C     |                               |
| PROPELLER     | I3R00180       | HC-I3YR-1RF/F7693FB+2[*2]/SM42 | 1        | A/C     |                               |
| PROPELLER     | I3R00180KD     | HC-I3YR-1RF/F7693FB+2[*2]/SM42 | 1        | A/C     |                               |
| BLADE         | F7693F+2*1     | PCP:BLADE UNIT, ALUM [6,16,11] | 3        | Prop    |                               |
| BLADE         | F7693FB+2*2    | PCP:BLADE UNIT, ALUM 104512    | 3        | Prop    |                               |
| SPINNER       | 105012         | SPINNER ASSEMBLY               | 1        | Prop    |                               |
| SPINNER       | 105012P        | SPINNER ASSEMBLY               | 1        | Prop    |                               |
| SPINNER       | D-6750         | SPINNER ASSEMBLY               | 1        | Prop    | Use with non-de-ice prop only |
| SPINNER       | D-6750-P       | SPINNER ASSEMBLY               | 1        | Prop    | Use with non-de-ice prop only |
| GOVERNOR      | S-1-52         | GOVERNOR ASSEMBLY, S-1-52      | 1        | A/C     |                               |
| SPIN MTG KIT  | A-2476-42      | SPINNER - MTG KIT              | 1        | Prop    |                               |
| DE-ICER       | 104512         | DE-ICE BOOT                    | 1        | Blade   |                               |
| DE-ICE KIT PR | 104996         | DE-ICE KIT (ONE PROP)          | 1        | Prop    |                               |
| MTG BOLT/STUD | A-2067         | STUD, MOUNTING, 1/2-20         | 6        | Prop    |                               |
| MISC ACCES    | 100800         | BALANCE WEIGHT KIT             | 1        | A/C     |                               |
| OVERHAUL KIT  | HC-I3YR-1RF-OH | O/H KIT                        | 1        | Prop    | For aftermarket use only      |

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CESSNA

IDS No.: 2144 Rev.: - DM Date: 11/20/2003

Model: 182  
 Trade Name: SKYLANE  
 Aircraft T.C./STC: STC-SA108CE  
 Propeller Model: BHC-82XF-3, BHC-A2XF-3  
 Propeller T.C.: P24EA  
 Blade Model(s): 8433-2  
 Prop Diameter: 82.3"

Modifier: AEROSTOL COMPANY  
 Engine Model:  
 Power: HP @ RPM  
 Placard/Restr:  
 Notes:

**Prop Setup:**

Ref. Radius: 30  
 Reverse Angle: NA  
 Low Pitch Angle:  
 Stud Protrusion

Startlock Angle: NA  
 Feather/High Angle:  
 Cwt Angle: Unknown

**Non-HPI Items:**

Non-HPI Spinner:

Non-HPI Governor:

**Hartzell Approved Items:**

| Item Type                    | Item Number | Description                   | Quantity | Qty Per | Comments |
|------------------------------|-------------|-------------------------------|----------|---------|----------|
| BLADE                        | 8433-2      | BLADE                         | 2        | Prop    |          |
| COUNTERWEIGHT SLUG A-619-6   |             | SLUG, COUNTERWEIGHT           | 1        | Blade   |          |
| COUNTERWEIGHT SLUG A-890-8   |             | PCP:SLUG, COUNTERWEIGHT       | 1        | Blade   |          |
| COUNTERWEIGHT SLUG B-3384-23 |             | BOLT, 1/4-28, HEX HEAD        | 2        | Blade   |          |
| COUNTERWEIGHT SLUG B-3808-4  |             | NUT,HEX,SELF-LOCKING          | 2        | Blade   |          |
| MTG BOLT/STUD                | A-1328-1    | BOLT,MOUNTING,1/2-20,12 POINT | 6        | Prop    |          |

CESSNA

IDS No.: 2145 Rev.: - DM Date: 11/20/2003

Model: 182  
 Trade Name: SKYLANE  
 Aircraft T.C./STC: STC-SA108CE  
 Propeller Model: BHC-82VF-3, BHC-A2VF-3  
 Propeller T.C.: P24EA  
 Blade Model(s): V8433-2  
 V8433N-2  
 Prop Diameter: 82.3"

Modifier: AEROSTOL COMPANY  
 Engine Model:  
 Power: HP @ RPM  
 Placard/Restr:  
 Notes:

**Prop Setup:**

Ref. Radius: 30  
 Reverse Angle: NA  
 Low Pitch Angle:  
 Stud Protrusion

Startlock Angle: NA  
 Feather/High Angle:  
 Cwt Angle: Unknown

**Non-HPI Items:**

Non-HPI Spinner:

Non-HPI Governor:

**Hartzell Approved Items:**

| Item Type                    | Item Number | Description                   | Quantity | Qty Per | Comments |
|------------------------------|-------------|-------------------------------|----------|---------|----------|
| BLADE                        | V8433-2     | BLADE                         | 2        | Prop    |          |
| BLADE                        | V8433N-2    | BLADE                         | 2        | Prop    |          |
| COUNTERWEIGHT SLUG A-619-6   |             | SLUG, COUNTERWEIGHT           | 1        | Blade   |          |
| COUNTERWEIGHT SLUG A-890-8   |             | PCP:SLUG, COUNTERWEIGHT       | 1        | Blade   |          |
| COUNTERWEIGHT SLUG B-3384-23 |             | BOLT, 1/4-28, HEX HEAD        | 2        | Blade   |          |
| COUNTERWEIGHT SLUG B-3808-4  |             | NUT,HEX,SELF-LOCKING          | 2        | Blade   |          |
| MTG BOLT/STUD                | A-1328-1    | BOLT,MOUNTING,1/2-20,12 POINT | 6        | Prop    |          |

# HARTZELL

## APPLICATION GUIDE

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CESSNA

**Model:** 182  
**Trade Name:** SKYLANE  
**Aircraft T.C./STC:** STC-SA108CE  
**Propeller Model:** BHC-A2MVF-3  
**Propeller T.C.:** P24EA  
**Blade Model(s):** MV8433N-2  
**Prop Diameter:** 82.3"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:**  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type                    | Item Number | Description                   | Quantity | Qty Per | Comments |
|------------------------------|-------------|-------------------------------|----------|---------|----------|
| BLADE                        | MV8433N-2   | PCP:BLADE UNIT, ALUMINUM      | 2        | Prop    |          |
| COUNTERWEIGHT SLUG A-619-6   |             | SLUG, COUNTERWEIGHT           | 1        | Blade   |          |
| COUNTERWEIGHT SLUG A-890-8   |             | PCP:SLUG, COUNTERWEIGHT       | 1        | Blade   |          |
| COUNTERWEIGHT SLUG B-3384-23 |             | BOLT, 1/4-28, HEX HEAD        | 2        | Blade   |          |
| COUNTERWEIGHT SLUG B-3808-4  |             | NUT,HEX,SELF-LOCKING          | 2        | Blade   |          |
| MTG BOLT/STUD                | A-1328-1    | BOLT,MOUNTING,1/2-20,12 POINT | 6        | Prop    |          |

**IDS No.:** 371 **Rev.:** - **DM Date:** 05/13/1998

**Modifier:** AEROSTOL COMPANY

**Engine Model:**

**Power:** HP @ RPM

**Placard/Restr:**

**Notes:**

**Startlock Angle:** NA

**Feather/High Angle:**

**Cwt Angle:** Unknown

**Non-HPI Governor:**

CESSNA

**Model:** 182  
**Trade Name:** Skylane  
**Aircraft T.C./STC:** SA02735CH  
**Propeller Model:** HC-G3YF-1RF  
**Propeller T.C.:** P55GL  
**Blade Model(s):** F8068\*4  
**Prop Diameter:** 82" - 78"

**Prop Setup:**

**Ref. Radius:** 30"  
**Reverse Angle:**  
**Low Pitch Angle:** 12.3+-0.2  
**Stud Protrusion** 1.450 +/-0.030

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number | Description                   | Quantity | Qty Per | Comments |
|---------------|-------------|-------------------------------|----------|---------|----------|
| PROPELLER     | G3F00501    | HC-G3YF-1RF/F8068[*4]/SM7     | 1        | A/C     |          |
| PROPELLER     | G3F00501KD  | HC-G3YF-1RF/F8068[*4]/SM7     | 1        | A/C     |          |
| BLADE         | F8068*4     | PCP:BLADE UNIT, ALUM [6,16,5] | 3        | Prop    |          |
| SPINNER       | D-4798-1    | SPINNER ASSEMBLY              | 1        | Prop    |          |
| SPINNER       | D-4798-1P   | SPINNER ASSEMBLY              | 1        | Prop    |          |
| SPINNER       | D-4798-3    | SPINNER ASSEMBLY              | 1        | Prop    |          |
| SPINNER       | D-4798-3P   | SPINNER ASSEMBLY              | 1        | Prop    |          |
| SPIN MTG KIT  | A-2476-7    | SPINNER - MTG KIT             | 1        | Prop    |          |
| MTG BOLT/STUD | A-2429-4    | STUD, MOUNTING, 1/2-20        | 6        | Prop    |          |
| MTG BOLT/STUD | A-2429-4    | STUD, MOUNTING, 1/2-20        | 6        | Prop    |          |

**IDS No.:** 2937 **Rev.:** - **DM Date:** 03/05/2010

**Modifier:** Vitatoo Aviation LLC

**Engine Model:** O-470-U-TS

**Power:** 250 HP @ 2625 RPM

**Placard/Restr:**

**Notes:** Eligible on Texas Skyways STC SA09530SW.

**Startlock Angle:**

**Feather/High Angle:** 32.0+-1.0

**Cwt Angle:**

**Non-HPI Governor:**

# HARTZELL

## APPLICATION GUIDE 159

CESSNA

IDS No.: 3001      Rev.: 1      BC Date: 07/25/2014

Model: 182  
 Trade Name: Skylane  
 Aircraft T.C./STC: SA02821CH  
 Propeller Model: HC-G3YF-1RF  
 Propeller T.C.: P55GL  
 Blade Model(s): F8068\*4  
 Prop Diameter: 82" - 78"

Modifier: Hartzell Propeller  
 Engine Model: O-470-U-TS  
 Power: 250 HP @ 2625 RPM  
 Placard/Restr:  
 Notes: Eligible on Texas Skyways STC  
 SA09530SW.

**Prop Setup:**

Ref. Radius: 30"  
 Reverse Angle:  
 Low Pitch Angle: 12.3+-0.2  
 Stud Protrusion 1.450 +/-0.030

Startlock Angle:  
 Feather/High Angle: 32.0+-1.0  
 Cwt Angle:

**Non-HPI Items:**

Non-HPI Spinner:

Non-HPI Governor:

**Hartzell Approved Items:**

| Item Type     | Item Number | Description                   | Quantity | Qty Per | Comments |
|---------------|-------------|-------------------------------|----------|---------|----------|
| PROPELLER     | G3F00501    | HC-G3YF-1RF/F8068[*4]/SM7     | 1        | A/C     |          |
| PROPELLER     | G3F00501KD  | HC-G3YF-1RF/F8068[*4]/SM7     | 1        | A/C     |          |
| BLADE         | F8068*4     | PCP:BLADE UNIT, ALUM [6,16,5] | 3        | Prop    |          |
| SPINNER       | D-4798-1    | SPINNER ASSEMBLY              | 1        | Prop    |          |
| SPINNER       | D-4798-1P   | SPINNER ASSEMBLY              | 1        | Prop    |          |
| SPINNER       | D-4798-3    | SPINNER ASSEMBLY              | 1        | Prop    |          |
| SPINNER       | D-4798-3P   | SPINNER ASSEMBLY              | 1        | Prop    |          |
| SPIN MTG KIT  | A-2476-7    | SPINNER - MTG KIT             | 1        | Prop    |          |
| MTG BOLT/STUD | A-2429-4    | STUD, MOUNTING, 1/2-20        | 6        | Prop    |          |

# HARTZELL

## APPLICATION GUIDE 159

CESSNA

IDS No.: 2936 Rev.: - DM Date: 03/05/2010

**Model:** 182  
**Trade Name:** Skylane  
**Aircraft T.C./STC:** SA02735CH  
**Propeller Model:** HC-G3YF-1RF  
**Propeller T.C.:** P55GL  
**Blade Model(s):** F8068\*4  
**Prop Diameter:** 82" - 78"

**Modifier:** Vitatoe Aviation LLC  
**Engine Model:** O-470-U-TS  
**Power:** 250 HP @ 2600 RPM  
**Placard/Restr:**  
**Notes:** Eligible on Texas Skyways STC  
 SA8951SW.

### Prop Setup:

**Ref. Radius:** 30"  
**Reverse Angle:**  
**Low Pitch Angle:** 12.3+/-0.2  
**Stud Protrusion** 1.450 +/-0.030

**Startlock Angle:**  
**Feather/High Angle:** 32.0+-1.0  
**Cwt Angle:**

### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>            | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|-------------------------------|-----------------|----------------|-----------------|
| PROPELLER        | G3F00501           | HC-G3YF-1RF/F8068[*4]/SM7     | 1               | A/C            |                 |
| PROPELLER        | G3F00501KD         | HC-G3YF-1RF/F8068[*4]/SM7     | 1               | A/C            |                 |
| BLADE            | F8068*4            | PCP:BLADE UNIT, ALUM [6,16,5] | 3               | Prop           |                 |
| SPINNER          | D-4798-1           | SPINNER ASSEMBLY              | 1               | Prop           |                 |
| SPINNER          | D-4798-1P          | SPINNER ASSEMBLY              | 1               | Prop           |                 |
| SPINNER          | D-4798-3           | SPINNER ASSEMBLY              | 1               | Prop           |                 |
| SPINNER          | D-4798-3P          | SPINNER ASSEMBLY              | 1               | Prop           |                 |
| SPIN MTG KIT     | A-2476-7           | SPINNER - MTG KIT             | 1               | Prop           |                 |
| MTG BOLT/STUD    | A-2429-4           | STUD, MOUNTING, 1/2-20        | 6               | Prop           |                 |
| MTG BOLT/STUD    | A-2429-4           | STUD, MOUNTING, 1/2-20        | 6               | Prop           |                 |



# HARTZELL

## APPLICATION GUIDE

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CESSNA

IDS No.: 3000 Rev.: 1 BC Date: 07/25/2014

**Model:** 182  
**Trade Name:** Skylane  
**Aircraft T.C./STC:** SA02821CH  
**Propeller Model:** HC-G3YF-1RF  
**Propeller T.C.:** P55GL  
**Blade Model(s):** F8068\*4  
**Prop Diameter:** 82" - 78"

**Modifier:** Hartzell Propeller  
**Engine Model:** O-470-U-TS  
**Power:** 250 HP @ 2600 RPM  
**Placard/Restr:**  
**Notes:** Eligible on Texas Skyways STC SA8951SW.

**Prop Setup:**

**Ref. Radius:** 30"  
**Reverse Angle:**  
**Low Pitch Angle:** 12.3+-0.2  
**Stud Protrusion** 1.450 +/-0.030

**Startlock Angle:**  
**Feather/High Angle:** 32.0+-1.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>            | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|-------------------------------|-----------------|----------------|-----------------|
| PROPELLER        | G3F00501           | HC-G3YF-1RF/F8068[*4]/SM7     | 1               | A/C            |                 |
| PROPELLER        | G3F00501KD         | HC-G3YF-1RF/F8068[*4]/SM7     | 1               | A/C            |                 |
| BLADE            | F8068*4            | PCP:BLADE UNIT, ALUM [6,16,5] | 3               | Prop           |                 |
| SPINNER          | D-4798-1           | SPINNER ASSEMBLY              | 1               | Prop           |                 |
| SPINNER          | D-4798-1P          | SPINNER ASSEMBLY              | 1               | Prop           |                 |
| SPINNER          | D-4798-3           | SPINNER ASSEMBLY              | 1               | Prop           |                 |
| SPINNER          | D-4798-3P          | SPINNER ASSEMBLY              | 1               | Prop           |                 |
| SPIN MTG KIT     | A-2476-7           | SPINNER - MTG KIT             | 1               | Prop           |                 |
| MTG BOLT/STUD    | A-2429-4           | STUD, MOUNTING, 1/2-20        | 6               | Prop           |                 |

# HARTZELL

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CESSNA

IDS No.: 2895 Rev.: - DM Date: 03/05/2010

Model: 182()  
 Trade Name: Skylane  
 Aircraft T.C./STC: SA02735CH  
 Propeller Model: HC-G3YF-1RF  
 Propeller T.C.: P55GL  
 Blade Model(s): F8068-2\*2  
 Prop Diameter: 80"-78"

Modifier: Vitatoe Aviation LLC  
 Engine Model: IO-520-D  
 Power: 300 HP @ 2850 RPM  
 Placard/Restr:  
 Notes: Eligible on John Jewell Aircraft STC  
 SA01302AT.

### Prop Setup:

Ref. Radius: 30  
 Reverse Angle:  
 Low Pitch Angle: 11.3+-0.2  
 Stud Protrusion 1.450 +/-0.030

Startlock Angle:  
 Feather/High Angle: 32.0+-1.0  
 Cwt Angle:

### Non-HPI Items:

Non-HPI Spinner:

Non-HPI Governor:

### Hartzell Approved Items:

| Item Type     | Item Number | Description                   | Quantity | Qty Per | Comments                   |
|---------------|-------------|-------------------------------|----------|---------|----------------------------|
| PROPELLER     | G3F00600    | HC-G3YF-1RF/F8068-2[*2]/SM25  | 1        | A/C     |                            |
| PROPELLER     | G3F00600KD  | HC-G3YF-1RF/F8068-2[*2]/SM25  | 1        | A/C     |                            |
| BLADE         | F8068-2*2   | PCP:BLADE UNIT, ALUM [6,16,5] | 3        | Prop    |                            |
| SPINNER       | D-4798-1    | SPINNER ASSEMBLY              | 1        | Prop    | Eligible on 182H thru 182R |
| SPINNER       | D-4798-1P   | SPINNER ASSEMBLY              | 1        | Prop    | Eligible on 182H thru 182R |
| SPINNER       | D-4798-3    | SPINNER ASSEMBLY              | 1        | Prop    | Eligible on 182 thru 182G  |
| SPINNER       | D-4798-3P   | SPINNER ASSEMBLY              | 1        | Prop    | Eligible on 182 thru 182G  |
| SPINNER       | D-5732-P    | SPINNER ASSEMBLY              | 1        | Prop    | Eligible on STC SA01302AT  |
| SPIN MTG KIT  | A-2476-25   | SPINNER - MTG KIT             | 1        | Prop    |                            |
| MTG BOLT/STUD | A-2429-4    | STUD, MOUNTING, 1/2-20        | 6        | Prop    |                            |
| MTG BOLT/STUD | A-2429-4    | STUD, MOUNTING, 1/2-20        | 6        | Prop    |                            |

# HARTZELL

## APPLICATION GUIDE

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CESSNA

IDS No.: 2977 Rev.: 1 BC Date: 07/25/2014

Model: 182()  
 Trade Name: Skylane  
 Aircraft T.C./STC: SA02821CH  
 Propeller Model: HC-G3YF-1RF  
 Propeller T.C.: P55GL  
 Blade Model(s): F8068-2\*2  
 Prop Diameter: 80"-78"

Modifier: Hartzell Propeller  
 Engine Model: IO-520-D  
 Power: 300 HP @ 2850 RPM  
 Placard/Restr:

Notes: Eligible on John Jewell Aircraft STC SA01302AT.

**Prop Setup:**

Ref. Radius: 30  
 Reverse Angle:  
 Low Pitch Angle: 11.3+/-0.2  
 Stud Protrusion 1.450 +/-0.030

Startlock Angle:  
 Feather/High Angle: 32.0+-1.0  
 Cwt Angle:

**Non-HPI Items:**

Non-HPI Spinner:

Non-HPI Governor:

**Hartzell Approved Items:**

| Item Type     | Item Number | Description                   | Quantity | Qty Per | Comments                   |
|---------------|-------------|-------------------------------|----------|---------|----------------------------|
| PROPELLER     | G3F00600    | HC-G3YF-1RF/F8068-2[*2]/SM25  | 1        | A/C     |                            |
| PROPELLER     | G3F00600KD  | HC-G3YF-1RF/F8068-2[*2]/SM25  | 1        | A/C     |                            |
| BLADE         | F8068-2*2   | PCP:BLADE UNIT, ALUM [6,16,5] | 3        | Prop    |                            |
| SPINNER       | D-4798-1    | SPINNER ASSEMBLY              | 1        | Prop    | Eligible on 182H thru 182R |
| SPINNER       | D-4798-1P   | SPINNER ASSEMBLY              | 1        | Prop    | Eligible on 182H thru 182R |
| SPINNER       | D-4798-3    | SPINNER ASSEMBLY              | 1        | Prop    | Eligible on 182 thru 182G  |
| SPINNER       | D-4798-3P   | SPINNER ASSEMBLY              | 1        | Prop    | Eligible on 182 thru 182G  |
| SPINNER       | D-5732-P    | SPINNER ASSEMBLY              | 1        | Prop    | Eligible on STC SA01302AT  |
| SPIN MTG KIT  | A-2476-25   | SPINNER - MTG KIT             | 1        | Prop    |                            |
| MTG BOLT/STUD | A-2429-4    | STUD, MOUNTING, 1/2-20        | 6        | Prop    |                            |

# HARTZELL

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CESSNA

**Model:** 182()  
**Trade Name:** Skylane  
**Aircraft T.C./STC:** SA02735CH  
**Propeller Model:** HC-G3YF-1RF  
**Propeller T.C.:** P55GL  
**Blade Model(s):** F8068-2\*2  
**Prop Diameter:** 80" to 78"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** 11.3 + - 0.2  
**Stud Protrusion** 1.450 +/- .030

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 2932      **Rev.:** -      **DM Date:** 04/05/2010

**Modifier:** Vitatoe Aviation LLC  
**Engine Model:** IO-520-D  
**Power:** 300 HP @ 2850 RPM  
**Placard/Restr:**  
**Notes:** Eligible on P PONK STC SA461NW.

**Startlock Angle:**  
**Feather/High Angle:** 32.0 + - 1.0  
**Cwt Angle:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>            | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>            |
|------------------|--------------------|-------------------------------|-----------------|----------------|----------------------------|
| PROPELLER        | G3F00600           | HC-G3YF-1RF/F8068-2[*2]/SM25  | 1               | A/C            |                            |
| PROPELLER        | G3F00600KD         | HC-G3YF-1RF/F8068-2[*2]/SM25  | 1               | A/C            |                            |
| BLADE            | F8068-2*2          | PCP:BLADE UNIT, ALUM [6,16,5] | 3               | Prop           |                            |
| SPINNER          | D-4798-1           | SPINNER ASSEMBLY              | 1               | Prop           | Eligible on 182H thru 182R |
| SPINNER          | D-4798-1P          | SPINNER ASSEMBLY              | 1               | Prop           | Eligible on 182H thru 182R |
| SPINNER          | D-4798-3           | SPINNER ASSEMBLY              | 1               | Prop           | Eligible on 182 thru 182G  |
| SPINNER          | D-4798-3P          | SPINNER ASSEMBLY              | 1               | Prop           | Eligible on 182 thru 182G  |
| SPIN MTG KIT     | A-2476-25          | SPINNER - MTG KIT             | 1               | Prop           |                            |
| MTG BOLT/STUD    | A-2429-4           | STUD, MOUNTING, 1/2-20        | 6               | Prop           |                            |
| MTG BOLT/STUD    | A-2429-4           | STUD, MOUNTING, 1/2-20        | 6               | Prop           |                            |

# HARTZELL

## APPLICATION GUIDE 159

CESSNA

IDS No.: 2913      Rev.: -      DM Date: 02/19/2010

**Model:** 182( )  
**Trade Name:** Skylane  
**Aircraft T.C./STC:** SA02735CH  
**Propeller Model:** HC-G3YF-1RF  
**Propeller T.C.:** P55GL  
**Blade Model(s):** F8068\*4  
**Prop Diameter:** 82" to 78"

**Modifier:** Vitatoe Aviation LLC  
**Engine Model:** IO-550-D  
**Power:** 300 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:** Eligible on John Jewell Aircraft STC  
 SA01218AT (IO-550-D)

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** 13.0 +/-0.1  
**Stud Protrusion** 1.450 +/-0.030

**Startlock Angle:**  
**Feather/High Angle:** 32.0 +/-1.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type     | Item Number | Description                   | Quantity | Qty Per | Comments                   |
|---------------|-------------|-------------------------------|----------|---------|----------------------------|
| PROPELLER     | G3F00503    | HC-G3YF-1RF/F8068[*4]/SM7     | 1        | A/C     |                            |
| PROPELLER     | G3F00503KD  | HC-G3YF-1RF/F8068[*4]/SM7     | 1        | A/C     |                            |
| BLADE         | F8068*4     | PCP:BLADE UNIT, ALUM [6,16,5] | 3        | Prop    |                            |
| SPINNER       | D-4798-1    | SPINNER ASSEMBLY              | 1        | Prop    | Eligible on 182H thru 182R |
| SPINNER       | D-4798-1P   | SPINNER ASSEMBLY              | 1        | Prop    | Eligible on 182H thru 182R |
| SPINNER       | D-4798-3    | SPINNER ASSEMBLY              | 1        | Prop    | Eligible on 182 thru 182G  |
| SPINNER       | D-5732-P    | SPINNER ASSEMBLY              | 1        | Prop    | Optional STC SA01218AT     |
| SPIN MTG KIT  | A-2476-25   | SPINNER - MTG KIT             | 1        | Prop    | Optional                   |
| SPIN MTG KIT  | A-2476-7    | SPINNER - MTG KIT             | 1        | Prop    | STC SA01218AT              |
| DE-ICER       | D-4798-3P   | SPINNER ASSEMBLY              | 1        | Prop    | Eligible on 182 thru 182G  |
| MTG BOLT/STUD | A-2429-4    | STUD, MOUNTING, 1/2-20        | 6        | Prop    |                            |

# HARTZELL

## APPLICATION GUIDE

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CESSNA

IDS No.: 2990 Rev.: 1 BC Date: 07/25/2014

Model: 182()  
 Trade Name: Skylane  
 Aircraft T.C./STC: SA02821CH  
 Propeller Model: HC-G3YF-1RF  
 Propeller T.C.: P55GL  
 Blade Model(s): F8068\*4  
 Prop Diameter: 82" to 78"

Modifier: Hartzell Propeller  
 Engine Model: IO-550-D  
 Power: 300 HP @ 2700 RPM  
 Placard/Restr:

Notes: Eligible on John Jewell Aircraft STC SA01218AT (IO-550-D)

### Prop Setup:

Ref. Radius: 30  
 Reverse Angle:  
 Low Pitch Angle: 13.0 +/-0.1  
 Stud Protrusion 1.450 +/-0.030

Startlock Angle:  
 Feather/High Angle: 32.0 +/-1.0  
 Cwt Angle:

### Non-HPI Items:

Non-HPI Spinner:

Non-HPI Governor:

### Hartzell Approved Items:

| Item Type     | Item Number | Description                   | Quantity | Qty Per | Comments                   |
|---------------|-------------|-------------------------------|----------|---------|----------------------------|
| PROPELLER     | G3F00503    | HC-G3YF-1RF/F8068[*4]/SM7     | 1        | A/C     |                            |
| PROPELLER     | G3F00503KD  | HC-G3YF-1RF/F8068[*4]/SM7     | 1        | A/C     |                            |
| BLADE         | F8068*4     | PCP:BLADE UNIT, ALUM [6,16,5] | 3        | Prop    |                            |
| SPINNER       | D-4798-1    | SPINNER ASSEMBLY              | 1        | Prop    | Eligible on 182H thru 182R |
| SPINNER       | D-4798-1P   | SPINNER ASSEMBLY              | 1        | Prop    | Eligible on 182H thru 182R |
| SPINNER       | D-4798-3    | SPINNER ASSEMBLY              | 1        | Prop    | Eligible on 182 thru 182G  |
| SPINNER       | D-5732-P    | SPINNER ASSEMBLY              | 1        | Prop    | Optional STC SA01218AT     |
| SPIN MTG KIT  | A-2476-25   | SPINNER - MTG KIT             | 1        | Prop    | Optional                   |
| SPIN MTG KIT  | A-2476-7    | SPINNER - MTG KIT             | 1        | Prop    | STC SA01218AT              |
| DE-ICER       | D-4798-3P   | SPINNER ASSEMBLY              | 1        | Prop    | Eligible on 182 thru 182G  |
| MTG BOLT/STUD | A-2429-4    | STUD, MOUNTING, 1/2-20        | 6        | Prop    |                            |

# HARTZELL

## APPLICATION GUIDE

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CESSNA

IDS No.: 2998 Rev.: 1 BC Date: 07/25/2014

Model: 182()  
 Trade Name: Skylane  
 Aircraft T.C./STC: SA02821CH  
 Propeller Model: HC-G3YF-1RF  
 Propeller T.C.: P55GL  
 Blade Model(s): F8068-2\*2  
 Prop Diameter: 80" to 78"

Modifier: Hartzell Propeller  
 Engine Model: IO-520-D  
 Power: 300 HP @ 2850 RPM  
 Placard/Restr:  
 Notes: Eligible on P PONK STC SA461NW.

**Prop Setup:**

Ref. Radius: 30  
 Reverse Angle:  
 Low Pitch Angle: 11.3 + - 0.2  
 Stud Protrusion 1.450 +/- .030

Startlock Angle:  
 Feather/High Angle: 32.0 + - 1.0  
 Cwt Angle:

**Non-HPI Items:**

Non-HPI Spinner:

Non-HPI Governor:

**Hartzell Approved Items:**

| Item Type     | Item Number | Description                   | Quantity | Qty Per | Comments                   |
|---------------|-------------|-------------------------------|----------|---------|----------------------------|
| PROPELLER     | G3F00600    | HC-G3YF-1RF/F8068-2[*2]/SM25  | 1        | A/C     |                            |
| PROPELLER     | G3F00600KD  | HC-G3YF-1RF/F8068-2[*2]/SM25  | 1        | A/C     |                            |
| BLADE         | F8068-2*2   | PCP:BLADE UNIT, ALUM [6,16,5] | 3        | Prop    |                            |
| SPINNER       | D-4798-1    | SPINNER ASSEMBLY              | 1        | Prop    | Eligible on 182H thru 182R |
| SPINNER       | D-4798-1P   | SPINNER ASSEMBLY              | 1        | Prop    | Eligible on 182H thru 182R |
| SPINNER       | D-4798-3    | SPINNER ASSEMBLY              | 1        | Prop    | Eligible on 182 thru 182G  |
| SPINNER       | D-4798-3P   | SPINNER ASSEMBLY              | 1        | Prop    | Eligible on 182 thru 182G  |
| SPIN MTG KIT  | A-2476-25   | SPINNER - MTG KIT             | 1        | Prop    |                            |
| MTG BOLT/STUD | A-2429-4    | STUD, MOUNTING, 1/2-20        | 6        | Prop    |                            |

# HARTZELL

## APPLICATION GUIDE 159

CESSNA

IDS No.: 2912      Rev.: 1      IC      Date: 07/16/2015

**Model:** 182 - 182P  
**Trade Name:** SKYLANE  
**Aircraft T.C./STC:** SA02735CH  
**Propeller Model:** PHC-G3YF-1RF  
**Propeller T.C.:** P55GL  
**Blade Model(s):** F8068\*4  
**Prop Diameter:** 82" - 78"

**Modifier:** Vitatoe Aviation LLC  
**Engine Model:** O-470-L, -R, -S  
**Power:** 230 HP @ 2600 RPM  
**Placard/Restr:**  
**Notes:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** 12.3 + - 0.2  
**Stud Protrusion** 1.450 +-0.030

**Startlock Angle:**  
**Feather/High Angle:** 32.0 + - 1.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>            | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>            |
|------------------|--------------------|-------------------------------|-----------------|----------------|----------------------------|
| PROPELLER        | G3F00801           | PHC-G3YF-1RF/F8068[*4]/SM25   | 1               | A/C            |                            |
| PROPELLER        | G3F00801KD         | PHC-G3YF-1RF/F8068[*4]/SM25   | 1               | A/C            |                            |
| BLADE            | F8068*4            | PCP:BLADE UNIT, ALUM [6,16,5] | 3               | Prop           |                            |
| SPINNER          | D-4798-1           | SPINNER ASSEMBLY              | 1               | Prop           | Eligible on 182H thru 182R |
| SPINNER          | D-4798-1P          | SPINNER ASSEMBLY              | 1               | Prop           | Eligible on 182H thru 182R |
| SPINNER          | D-4798-3           | SPINNER ASSEMBLY              | 1               | Prop           | Eligible on 182 thru 182G  |
| SPINNER          | D-4798-3P          | SPINNER ASSEMBLY              | 1               | Prop           | Eligible on 182 thru 182G  |
| SPIN MTG KIT     | A-2476-25          | SPINNER - MTG KIT             | 1               | Prop           |                            |
| MTG BOLT/STUD    | A-2429-4           | STUD, MOUNTING, 1/2-20        | 6               | Prop           |                            |
| OVERHAUL KIT     | PHC-G3YF-1RF-OH    | O/H KIT                       | 1               | Prop           | For aftermarket use only   |



# HARTZELL

## APPLICATION GUIDE

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CESSNA

IDS No.: 2989 Rev.: 2 IC Date: 07/16/2015

Model: 182 - 182P  
 Trade Name: SKYLANE  
 Aircraft T.C./STC: SA02821CH  
 Propeller Model: PHC-G3YF-1RF  
 Propeller T.C.: P55GL  
 Blade Model(s): F8068\*4  
 Prop Diameter: 82" - 78"

Modifier: Hartzell Propeller  
 Engine Model: O-470-L, -R, -S  
 Power: 230 HP @ 2600 RPM  
 Placard/Restr:  
 Notes:

**Prop Setup:**

Ref. Radius: 30  
 Reverse Angle:  
 Low Pitch Angle: 12.3 + - 0.2  
 Stud Protrusion 1.450 +-0.030

Startlock Angle:  
 Feather/High Angle: 32.0 + - 1.0  
 Cwt Angle:

**Non-HPI Items:**

Non-HPI Spinner:

Non-HPI Governor:

**Hartzell Approved Items:**

| Item Type     | Item Number     | Description                   | Quantity | Qty Per | Comments                   |
|---------------|-----------------|-------------------------------|----------|---------|----------------------------|
| PROPELLER     | G3F00801        | PHC-G3YF-1RF/F8068[*4]/SM25   | 1        | A/C     |                            |
| PROPELLER     | G3F00801KD      | PHC-G3YF-1RF/F8068[*4]/SM25   | 1        | A/C     |                            |
| BLADE         | F8068*4         | PCP:BLADE UNIT, ALUM [6,16,5] | 3        | Prop    |                            |
| SPINNER       | D-4798-1        | SPINNER ASSEMBLY              | 1        | Prop    | Eligible on 182H thru 182R |
| SPINNER       | D-4798-1P       | SPINNER ASSEMBLY              | 1        | Prop    | Eligible on 182H thru 182R |
| SPINNER       | D-4798-3        | SPINNER ASSEMBLY              | 1        | Prop    | Eligible on 182 thru 182G  |
| SPINNER       | D-4798-3P       | SPINNER ASSEMBLY              | 1        | Prop    | Eligible on 182 thru 182G  |
| SPIN MTG KIT  | A-2476-25       | SPINNER - MTG KIT             | 1        | Prop    |                            |
| MTG BOLT/STUD | A-2429-4        | STUD, MOUNTING, 1/2-20        | 6        | Prop    |                            |
| OVERHAUL KIT  | PHC-G3YF-1RF-OH | O/H KIT                       | 1        | Prop    | For aftermarket use only   |

# HARTZELL

## APPLICATION GUIDE 159

CESSNA

IDS No.: 2939 Rev.: - DM Date: 03/05/2010

**Model:** 180, 182  
**Trade Name:** Skywagon, Skylane  
**Aircraft T.C./STC:** SA02735CH  
**Propeller Model:** HC-G3YF-1RF  
**Propeller T.C.:** P55GL  
**Blade Model(s):** F8068\*4  
**Prop Diameter:** 82" - 78"

**Modifier:** Vitatoe Aviation LLC  
**Engine Model:** IO-520-F  
**Power:** 280 HP @ 2700 RPM  
**Placard/Restr:**

**Notes:** Eligible on Texas Skyways STC's  
 SA09018SC and SA09026SC.

### Prop Setup:

**Ref. Radius:** 30"  
**Reverse Angle:**  
**Low Pitch Angle:** 12.3+0.2  
**Stud Protrusion:** 1.450 +/-0.030

**Startlock Angle:**  
**Feather/High Angle:** 32.0+-1.0  
**Cwt Angle:**

### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>            | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|-------------------------------|-----------------|----------------|-----------------|
| PROPELLER        | G3F00502           | HC-G3YF-1RF/F8068[*4]/SM25    | 1               | A/C            |                 |
| PROPELLER        | G3F00502KD         | HC-G3YF-1RF/F8068[*4]/SM25    | 1               | A/C            |                 |
| BLADE            | F8068*4            | PCP:BLADE UNIT, ALUM [6,16,5] | 3               | Prop           |                 |
| SPINNER          | C-4582             | SPINNER ASSEMBLY              | 1               | Prop           | Optional        |
| SPINNER          | C-4582-P           | SPINNER ASSEMBLY              | 1               | Prop           | Optional        |
| SPINNER          | D-5732-P           | SPINNER ASSEMBLY              | 1               | Prop           |                 |
| SPIN MTG KIT     | A-2476-25          | SPINNER - MTG KIT             | 1               | Prop           |                 |
| SPIN MTG KIT     | A-2476-7           | SPINNER - MTG KIT             | 1               | Prop           | Optional        |
| MTG BOLT/STUD    | A-2429-4           | STUD, MOUNTING, 1/2-20        | 6               | Prop           |                 |
| MTG BOLT/STUD    | A-2429-4           | STUD, MOUNTING, 1/2-20        | 6               | Prop           |                 |

# HARTZELL

## APPLICATION GUIDE 159

CESSNA

IDS No.: 3003 Rev.: 1 BC Date: 07/25/2014

**Model:** 180, 182  
**Trade Name:** Skywagon, Skylane  
**Aircraft T.C./STC:** SA02821CH  
**Propeller Model:** HC-G3YF-1RF  
**Propeller T.C.:** P55GL  
**Blade Model(s):** F8068\*4  
**Prop Diameter:** 82" - 78"

**Modifier:** Hartzell Propeller  
**Engine Model:** IO-520-F  
**Power:** 280 HP @ 2700 RPM  
**Placard/Restr:**

**Notes:** Eligible on Texas Skyways STC's  
 SA09018SC and SA09026SC.

### Prop Setup:

**Ref. Radius:** 30"  
**Reverse Angle:**  
**Low Pitch Angle:** 12.3+-0.2  
**Stud Protrusion** 1.450 +/-0.030

**Startlock Angle:**  
**Feather/High Angle:** 32.0+-1.0  
**Cwt Angle:**

### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>            | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|-------------------------------|-----------------|----------------|-----------------|
| PROPELLER        | G3F00502           | HC-G3YF-1RF/F8068[*4]/SM25    | 1               | A/C            |                 |
| PROPELLER        | G3F00502KD         | HC-G3YF-1RF/F8068[*4]/SM25    | 1               | A/C            |                 |
| BLADE            | F8068*4            | PCP:BLADE UNIT, ALUM [6,16,5] | 3               | Prop           |                 |
| SPINNER          | C-4582             | SPINNER ASSEMBLY              | 1               | Prop           | Optional        |
| SPINNER          | C-4582-P           | SPINNER ASSEMBLY              | 1               | Prop           | Optional        |
| SPINNER          | D-5732-P           | SPINNER ASSEMBLY              | 1               | Prop           |                 |
| SPIN MTG KIT     | A-2476-25          | SPINNER - MTG KIT             | 1               | Prop           |                 |
| SPIN MTG KIT     | A-2476-7           | SPINNER - MTG KIT             | 1               | Prop           | Optional        |
| MTG BOLT/STUD    | A-2429-4           | STUD, MOUNTING, 1/2-20        | 6               | Prop           |                 |

# HARTZELL

## APPLICATION GUIDE

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CESSNA

IDS No.: 2823      Rev.: -      DM Date: 03/05/2010

**Model:** 182()  
**Trade Name:** Skylane  
**Aircraft T.C./STC:** SA02735CH  
**Propeller Model:** HC-G3YF-1RF  
**Propeller T.C.:** P55GL  
**Blade Model(s):** F8068\*4  
**Prop Diameter:** 82"-80"

**Modifier:** Vitatoe Aviation LLC  
**Engine Model:** O-470-U  
**Power:** 230 HP @ 2400 RPM  
**Placard/Restr:**  
**Notes:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** 13.0+-.2  
**Stud Protrusion** 1.450 +/--.030

**Startlock Angle:**  
**Feather/High Angle:** 32.0+-1.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>            | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>            |
|------------------|--------------------|-------------------------------|-----------------|----------------|----------------------------|
| PROPELLER        | G3F00504           | HC-G3YF-1RF/F8068[*4]/SM25    | 1               | A/C            |                            |
| PROPELLER        | G3F00504KD         | HC-G3YF-1RF/F8068[*4]/SM25    | 1               | A/C            |                            |
| BLADE            | F8068*4            | PCP:BLADE UNIT, ALUM [6,16,5] | 3               | Prop           |                            |
| SPINNER          | D-4798-1           | SPINNER ASSEMBLY              | 1               | Prop           | Eligible on 182H thru 182R |
| SPINNER          | D-4798-1P          | SPINNER ASSEMBLY              | 1               | Prop           | Eligible on 182H thru 182R |
| SPINNER          | D-4798-3           | SPINNER ASSEMBLY              | 1               | Prop           | Eligible on 182 thru 182G  |
| SPINNER          | D-4798-3P          | SPINNER ASSEMBLY              | 1               | Prop           | Eligible on 182 thru 182G  |
| SPIN MTG KIT     | A-2476-25          | SPINNER - MTG KIT             | 1               | Prop           |                            |
| MTG BOLT/STUD    | A-2429-4           | STUD, MOUNTING, 1/2-20        | 6               | Prop           |                            |
| MTG BOLT/STUD    | A-2429-4           | STUD, MOUNTING, 1/2-20        | 6               | Prop           |                            |

# HARTZELL

## APPLICATION GUIDE

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CESSNA

IDS No.: 2970      Rev.: 2      IC      Date: 02/11/2015

**Model:** 182()  
**Trade Name:** Skylane  
**Aircraft T.C./STC:** SA02821CH  
**Propeller Model:** HC-G3YF-1RF  
**Propeller T.C.:** P55GL  
**Blade Model(s):** F8068\*4  
**Prop Diameter:** 82"-80"

**Modifier:** Hartzell Propeller  
**Engine Model:** O-470-U  
**Power:** 230 HP @ 2400 RPM  
**Placard/Restr:**  
**Notes:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** 13.0+-.2  
**Stud Protrusion** 1.450 +/--.030

**Startlock Angle:**  
**Feather/High Angle:** 32.0+-1.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>            | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>            |
|------------------|--------------------|-------------------------------|-----------------|----------------|----------------------------|
| PROPELLER        | G3F00504           | HC-G3YF-1RF/F8068[*4]/SM25    | 1               | A/C            |                            |
| PROPELLER        | G3F00504KD         | HC-G3YF-1RF/F8068[*4]/SM25    | 1               | A/C            |                            |
| BLADE            | F8068*4            | PCP:BLADE UNIT, ALUM [6,16,5] | 3               | Prop           |                            |
| SPINNER          | D-4798-1           | SPINNER ASSEMBLY              | 1               | Prop           | Eligible on 182H thru 182R |
| SPINNER          | D-4798-1P          | SPINNER ASSEMBLY              | 1               | Prop           | Eligible on 182H thru 182R |
| SPINNER          | D-4798-3           | SPINNER ASSEMBLY              | 1               | Prop           | Eligible on 182 thru 182G  |
| SPINNER          | D-4798-3P          | SPINNER ASSEMBLY              | 1               | Prop           | Eligible on 182 thru 182G  |
| SPIN MTG KIT     | A-2476-25          | SPINNER - MTG KIT             | 1               | Prop           |                            |
| MTG BOLT/STUD    | A-2429-4           | STUD, MOUNTING, 1/2-20        | 6               | Prop           |                            |

# HARTZELL

## APPLICATION GUIDE

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CESSNA

**Model:** 182  
**Trade Name:** Skylane  
**Aircraft T.C./STC:** SA02735CH  
**Propeller Model:** HC-G3YF-1RF  
**Propeller T.C.:** P55GL  
**Blade Model(s):** F8068\*4  
**Prop Diameter:** 82" - 78"

**IDS No.:** 2938      **Rev.:** -      **DM Date:** 03/05/2010

**Modifier:** Vitatoe Aviation LLC  
**Engine Model:** O-470-U  
**Power:** 252 HP @ 2625 RPM  
**Placard/Restr:**  
**Notes:** Eligible on John Jewell Aircraft STC SA1443AT. (STC changes the engine rating)

### Prop Setup:

**Ref. Radius:** 30"  
**Reverse Angle:**  
**Low Pitch Angle:** 12.3+/-0.2  
**Stud Protrusion** 1.450 +/- .030

**Startlock Angle:**  
**Feather/High Angle:** 32.0+/-1.0  
**Cwt Angle:**

### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>            | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|-------------------------------|-----------------|----------------|-----------------|
| PROPELLER        | G3F00501           | HC-G3YF-1RF/F8068[*4]/SM7     | 1               | A/C            |                 |
| PROPELLER        | G3F00501KD         | HC-G3YF-1RF/F8068[*4]/SM7     | 1               | A/C            |                 |
| BLADE            | F8068*4            | PCP:BLADE UNIT, ALUM [6,16,5] | 3               | Prop           |                 |
| SPINNER          | D-4798-1           | SPINNER ASSEMBLY              | 1               | Prop           |                 |
| SPINNER          | D-4798-1P          | SPINNER ASSEMBLY              | 1               | Prop           |                 |
| SPINNER          | D-4798-3           | SPINNER ASSEMBLY              | 1               | Prop           |                 |
| SPINNER          | D-4798-3P          | SPINNER ASSEMBLY              | 1               | Prop           |                 |
| SPIN MTG KIT     | A-2476-7           | SPINNER - MTG KIT             | 1               | Prop           |                 |
| MTG BOLT/STUD    | A-2429-4           | STUD, MOUNTING, 1/2-20        | 6               | Prop           |                 |
| MTG BOLT/STUD    | A-2429-4           | STUD, MOUNTING, 1/2-20        | 6               | Prop           |                 |

# HARTZELL

## APPLICATION GUIDE

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**CESSNA**

**Model:** 182  
**Trade Name:** Skylane  
**Aircraft T.C./STC:** SA02821CH  
**Propeller Model:** HC-G3YF-1RF  
**Propeller T.C.:** P55GL  
**Blade Model(s):** F8068\*4  
**Prop Diameter:** 82" - 78"

**IDS No.:** 3002      **Rev.:** 1      **BC Date:** 07/25/2014  
**Modifier:** Hartzell Propeller  
**Engine Model:** O-470-U  
**Power:** 252 HP @ 2625 RPM  
**Placard/Restr:**  
**Notes:** Eligible on John Jewell Aircraft STC SA1443AT. (STC changes the engine rating)

**Prop Setup:**

**Ref. Radius:** 30"  
**Reverse Angle:**  
**Low Pitch Angle:** 12.3+/-0.2  
**Stud Protrusion** 1.450 +/- .030

**Startlock Angle:**  
**Feather/High Angle:** 32.0+/-1.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type     | Item Number | Description                   | Quantity | Qty Per | Comments |
|---------------|-------------|-------------------------------|----------|---------|----------|
| PROPELLER     | G3F00501    | HC-G3YF-1RF/F8068[*4]/SM7     | 1        | A/C     |          |
| PROPELLER     | G3F00501KD  | HC-G3YF-1RF/F8068[*4]/SM7     | 1        | A/C     |          |
| BLADE         | F8068*4     | PCP:BLADE UNIT, ALUM [6,16,5] | 3        | Prop    |          |
| SPINNER       | D-4798-1    | SPINNER ASSEMBLY              | 1        | Prop    |          |
| SPINNER       | D-4798-1P   | SPINNER ASSEMBLY              | 1        | Prop    |          |
| SPINNER       | D-4798-3    | SPINNER ASSEMBLY              | 1        | Prop    |          |
| SPINNER       | D-4798-3P   | SPINNER ASSEMBLY              | 1        | Prop    |          |
| SPIN MTG KIT  | A-2476-7    | SPINNER - MTG KIT             | 1        | Prop    |          |
| MTG BOLT/STUD | A-2429-4    | STUD, MOUNTING, 1/2-20        | 6        | Prop    |          |

**CESSNA**

**Model:** R182, TR182, FR182  
**Trade Name:** SKYLANE RG  
**Aircraft T.C./STC:** SA03078CH  
**Propeller Model:** HC-C3YR-1RF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** F7693F+2\*1  
**Prop Diameter:** 80" - 78"

**IDS No.:** 3139      **Rev.:** 5      **IC Date:** 07/16/2015  
**Modifier:** Hartzell Propeller Inc.  
**Engine Model:** O-540-J3C5D, O-540-L3C5D+turbo  
**Power:** 235 HP @ 2400 RPM  
**Placard/Restr:** None  
**Notes:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** 14.0 +/- 0.2  
**Stud Protrusion**

**Startlock Angle:**  
**Feather/High Angle:** 32.0 +/- 1.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type     | Item Number    | Description                    | Quantity | Qty Per | Comments                 |
|---------------|----------------|--------------------------------|----------|---------|--------------------------|
| PROPELLER     | C3R01501       | HC-C3YR-1RF/F7693F+2[*1]/SM6   | 1        | A/C     |                          |
| PROPELLER     | C3R01501KD     | HC-C3YR-1RF/F7693F+2[*1]/SM6   | 1        | A/C     |                          |
| BLADE         | F7693F+2*1     | PCP:BLADE UNIT, ALUM [6,16,11] | 3        | Prop    |                          |
| SPINNER       | A-2295-3P      | SPINNER ASSEMBLY               | 1        | Prop    |                          |
| SPIN MTG KIT  | A-2476-6       | SPINNER - MTG KIT              | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2067         | STUD, MOUNTING, 1/2-20         | 6        | Prop    |                          |
| MISC ACCES    | 100803         | BALANCE WEIGHT KIT             | 1        | A/C     |                          |
| OVERHAUL KIT  | HC-C3YR-1RF-OH | O/H KIT                        | 1        | Prop    | For aftermarket use only |

# HARTZELL

## APPLICATION GUIDE

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CESSNA

IDS No.: 3137 Rev.: 6 IC Date: 07/16/2015

**Model:** R182, TR182, FR182, T182  
**Trade Name:** SKYLANE RG, TURBO SKYLANE  
**Aircraft T.C./STC:** SA03078CH  
**Propeller Model:** HC-I3YR-1RF  
**Propeller T.C.:** P33EA  
**Blade Model(s):** F8068\*4  
 F8068B\*3  
**Prop Diameter:** 82" - 78"

**Modifier:** Hartzell Propeller  
**Engine Model:** O-540-J3C5D, O-540-L3C5D+turbo  
**Power:** 235 HP @ 2400 RPM  
**Placard/Restr:** None

**Notes:** De-iced propeller installation is limited to aircraft with a previously installed 3-blade propeller equipped with existing electro-thermal de-ice.

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** 14.0 +/- 0.2  
**Stud Protrusion**

**Startlock Angle:**  
**Feather/High Angle:** 32.0 +/- 1.0  
**Cwt Angle:**

### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>            | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>               |
|------------------|--------------------|-------------------------------|-----------------|----------------|-------------------------------|
| PROPELLER        | I3R00203           | HC-I3YR-1RF/F8068[*4]/SM42    | 1               | A/C            |                               |
| PROPELLER        | I3R00203KD         | HC-I3YR-1RF/F8068[*4]/SM42    | 1               | A/C            |                               |
| PROPELLER        | I3R00250           | HC-I3YR-1RF/F8068B[*3]/SM42   | 1               | A/C            |                               |
| PROPELLER        | I3R00250KD         | HC-I3YR-1RF/F8068B[*3]/SM42   | 1               | A/C            |                               |
| BLADE            | F8068*4            | PCP:BLADE UNIT, ALUM [6,16,5] | 3               | Prop           |                               |
| BLADE            | F8068B*3           | PCP:BLADE UNIT, ALUM 104512   | 3               | Prop           |                               |
| SPINNER          | 105012             | SPINNER ASSEMBLY              | 1               | Prop           |                               |
| SPINNER          | 105012P            | SPINNER ASSEMBLY              | 1               | Prop           |                               |
| SPINNER          | D-6750             | SPINNER ASSEMBLY              | 1               | Prop           | Use with non-de-ice prop only |
| SPINNER          | D-6750-P           | SPINNER ASSEMBLY              | 1               | Prop           | Use with non-de-ice prop only |
| SPIN MTG KIT     | A-2476-42          | SPINNER - MTG KIT             | 1               | Prop           |                               |
| DE-ICER          | 104512             | DE-ICE BOOT                   | 1               | Blade          |                               |
| DE-ICE KIT PR    | 104996             | DE-ICE KIT (ONE PROP)         | 1               | Prop           |                               |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20        | 6               | Prop           |                               |
| MISC ACCES       | 100800             | BALANCE WEIGHT KIT            | 1               | A/C            |                               |
| OVERHAUL KIT     | HC-I3YR-1RF-OH     | O/H KIT                       | 1               | Prop           | For aftermarket use only      |



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**CESSNA**

**Model:** 182  
**Trade Name:** SKYLANE  
**Aircraft T.C./STC:** SA09026SC  
**Propeller Model:** PHC-G3YF-1RF  
**Propeller T.C.:** P55GL  
**Blade Model(s):** F8068  
**Prop Diameter:** 82"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.7 +-0.2  
**Stud Protrusion** 1.450 +-0.030

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number     | Description                  | Quantity | Qty Per | Comments                 |
|---------------|-----------------|------------------------------|----------|---------|--------------------------|
| PROPELLER     | G3F00025        | PHC-G3YF-1RF/F8068/SM25      | 1        | A/C     |                          |
| PROPELLER     | G3F00025KD      | PHC-G3YF-1RF/F8068/SM25      | 1        | A/C     |                          |
| BLADE         | F8068           | PCP:BLADE UNIT, ALUM [1,1,5] | 3        | Prop    |                          |
| SPINNER       | D-5732-P        | SPINNER ASSEMBLY             | 1        | Prop    |                          |
| SPIN MTG KIT  | A-2476-25       | SPINNER - MTG KIT            | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2429-4        | STUD, MOUNTING, 1/2-20       | 6        | Prop    |                          |
| OVERHAUL KIT  | PHC-G3YF-1RF-OH | O/H KIT                      | 1        | Prop    | For aftermarket use only |

**IDS No.:** 1791      **Rev.:** 2      **IC Date:** 03/04/2020

**Modifier:** TEXAS SKYWAYS  
**Engine Model:** O-520-F/TS, O-520-U/TS  
**Power:** 285 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 33.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

**CESSNA**

**Model:** 182H, 182J thru 182N, 182P thru 182R  
**Trade Name:** SKYLANE  
**Aircraft T.C./STC:** SA01218AT  
**Propeller Model:** PHC-G3YF-1RF  
**Propeller T.C.:** P55GL

**Blade Model(s):** F7691  
**Prop Diameter:** 78.0" TO 77.0"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.4 +- 0.1  
**Stud Protrusion** 1.450 +-0.030

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number     | Description                  | Quantity | Qty Per | Comments                 |
|---------------|-----------------|------------------------------|----------|---------|--------------------------|
| PROPELLER     | G3F00007        | PHC-G3YF-1RF/F7691/SM7       | 1        | A/C     |                          |
| BLADE         | F7691           | PCP:BLADE UNIT, ALUM [1,1,5] | 3        | Prop    |                          |
| SPINNER       | D-5732-P        | SPINNER ASSEMBLY             | 1        | Prop    |                          |
| SPIN MTG KIT  | A-2476-7        | SPINNER - MTG KIT            | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2429-4        | STUD, MOUNTING, 1/2-20       | 6        | Prop    |                          |
| OVERHAUL KIT  | PHC-G3YF-1RF-OH | O/H KIT                      | 1        | Prop    | For aftermarket use only |

**IDS No.:** 1468      **Rev.:** 3      **IC Date:** 03/26/2018

**Modifier:** JOHN JEWELL  
**Engine Model:** IO-550-D  
**Power:** 300 HP @ 2700 RPM  
**Placard/Restr:** Do not exceed 20 inches of manifold pressure below 2200 RPM.  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 31.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

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**CESSNA**

**Model:** 182S, 182T, T182T  
**Trade Name:** Skylane, Turbo Skylane  
**Aircraft T.C./STC:** SA03078CH  
**Propeller Model:** HC-F3YR-1ARF  
**Propeller T.C.:** P31EA  
**Blade Model(s):** F7693F+2\*1  
 F7693FK+2  
**Prop Diameter:** 80" - 77"

**IDS No.:** 2854      **Rev.:** 7      **IC Date:** 07/16/2015

**Modifier:** Hartzell Propeller Inc.  
**Engine Model:** O-540-AB1A5, TIO-540-AK1A  
**Power:** 235 HP @ 2400 RPM  
**Placard/Restr:**

**Notes:** Remove PC and TC from Hub and Blades.  
 Remove Assembly S/N from Hub.  
 Vibration Survey

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** 14.0 +/- 0.2  
**Stud Protrusion**

**Startlock Angle:**  
**Feather/High Angle:** 32.0 +-1.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>              | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>           |
|------------------|--------------------|---------------------------------|-----------------|----------------|---------------------------|
| PROPELLER        | F3R00500           | HC-F3YR-1ARF/F7693F+2[*1]/SM23  | 1               | A/C            |                           |
| PROPELLER        | F3R00500KD         | HC-F3YR-1ARF/F7693F+2[*1]/SM23  | 1               | A/C            |                           |
| PROPELLER        | F3R00550           | HC-F3YR-1ARF/F7693FK+2[*1]/SM23 | 1               | A/C            |                           |
| PROPELLER        | F3R00550KD         | HC-F3YR-1ARF/F7693FK+2[*1]/SM23 | 1               | A/C            |                           |
| BLADE            | F7693F+2*1         | PCP:BLADE UNIT, ALUM [6,16,11]  | 3               | Prop           |                           |
| BLADE            | F7693FK+2          | PCP:BLADE UNIT, ALUM [6,16,11]  | 3               | Prop           |                           |
| SPINNER          | A-2295-14P         | SPINNER ASSEMBLY                | 1               | Prop           |                           |
| SPINNER          | A-2295-3           | SPINNER ASSEMBLY                | 1               | Prop           | Used with no de-ice only. |
| SPINNER          | A-2295-3P          | SPINNER ASSEMBLY                | 1               | Prop           | Used with no de-ice only. |
| GOVERNOR         | S-1-52             | GOVERNOR ASSEMBLY, S-1-52       | 1               | A/C            |                           |
| SPIN MTG KIT     | A-2476-23          | SPINNER - MTG KIT               | 1               | Prop           |                           |
| DE-ICER          | 102657             | DE-ICE BOOT                     | 1               | Blade          |                           |
| DE-ICE KIT PR    | 104522             | DE-ICE KIT (ONE PROP)           | 1               | Prop           |                           |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20          | 6               | Prop           |                           |
| OVERHAUL KIT     | HC-F3YR-1ARF-OH    | O/H KIT                         | 1               | Prop           | For aftermarket use only  |

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CESSNA

**Model:** 182S, 182T, T182T  
**Trade Name:**  
**Aircraft T.C./STC:** SA11143SO  
**Propeller Model:** HC-H3YF-1RF  
**Propeller T.C.:** P35EA  
**Blade Model(s):** F8068  
**Prop Diameter:** 82" to 80"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** 14.0 +/- 0.2  
**Stud Protrusion** 1.450 +-0.030

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 2806      **Rev.:** 4      **IC**      **Date:** 07/16/2015

**Modifier:** TEXAS SKYWAYS  
**Engine Model:** IO-550-N  
**Power:** 310 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:**  
**Feather/High Angle:** 32.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>           | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|------------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | H3F00470           | HC-H3YF-1RF/F8068/SM44       | 1               | A/C            |                          |
| BLADE            | F8068              | PCP:BLADE UNIT, ALUM [1,1,5] | 3               | Prop           |                          |
| SPINNER          | C-3570             | SPINNER ASSEMBLY             | 1               | A/C            |                          |
| SPINNER          | C-3570-P           | SPINNER ASSEMBLY             | 1               | A/C            |                          |
| SPIN MTG KIT     | A-2476-44          | SPINNER - MTG KIT            | 1               | Prop           |                          |
| MTG BOLT/STUD    | A-2429-4           | STUD, MOUNTING, 1/2-20       | 6               | Prop           |                          |
| OVERHAUL KIT     | HC-H3YF-1RF-OH     | O/H KIT                      | 1               | Prop           | For aftermarket use only |

CESSNA

**Model:** 182, 182A,B,C,D,E  
**Trade Name:** SKYLANE  
**Aircraft T.C./STC:** STC-SA129EA  
**Propeller Model:** BHC-82VF-1A, BHC-A2VF-1A  
**Propeller T.C.:** P24EA  
**Blade Model(s):** V8433-2  
V8433N-2  
**Prop Diameter:** 82.3" TO 80"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 14.0 +-0.1  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 2147      **Rev.:** -      **DM**      **Date:** 11/20/2003

**Modifier:** HARTZELL PROPELLER  
**Engine Model:** O-470-L  
**Power:** 230 HP @ 2600 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 24.0 +-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:** WOODWARD

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u> | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|--------------------|-----------------|----------------|-----------------|
| BLADE            | V8433-2            | BLADE              | 2               | Prop           |                 |
| BLADE            | V8433N-2           | BLADE              | 2               | Prop           |                 |
| SPINNER          | 835-25             | IDS Item           | 1               | Prop           |                 |

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CESSNA

**Model:** 182, 182A,B,C,D,E  
**Trade Name:** SKYLANE  
**Aircraft T.C./STC:** STC-SA129EA  
**Propeller Model:** BHC-82XF-1A, BHC-A2XF-1A  
**Propeller T.C.:** P24EA  
**Blade Model(s):** 8433-2  
**Prop Diameter:** 82.3" TO 80"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 14.0 +-0.1  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u> | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|--------------------|-----------------|----------------|-----------------|
| BLADE            | 8433-2             | BLADE              | 2               | Prop           |                 |
| SPINNER          | 835-25             | IDS Item           | 1               | Prop           |                 |

**IDS No.:** 2146      **Rev.:** -      **DM Date:** 11/20/2003

**Modifier:** HARTZELL PROPELLER  
**Engine Model:** O-470-L  
**Power:** 230 HP @ 2600 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 24.0 +-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:** WOODWARD

CESSNA

**Model:** 182, 182A,B,C,D,E  
**Trade Name:** SKYLANE  
**Aircraft T.C./STC:** STC-SA129EA  
**Propeller Model:** BHC-A2MVF-1A  
**Propeller T.C.:** P24EA  
**Blade Model(s):** MV8433N-2  
**Prop Diameter:** 82.3" TO 80"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 14.0 +-0.1  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>       | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|--------------------------|-----------------|----------------|--------------------------|
| BLADE            | MV8433N-2          | PCP:BLADE UNIT, ALUMINUM | 2               | Prop           |                          |
| SPINNER          | 835-25             | IDS Item                 | 1               | Prop           |                          |
| OVERHAUL KIT     | BHC-A2MVF-1A-OH    | O/H KIT                  | 1               | Prop           | For aftermarket use only |

**IDS No.:** 372      **Rev.:** 1      **IC Date:** 07/06/2015

**Modifier:** HARTZELL PROPELLER  
**Engine Model:** O-470-L  
**Power:** 230 HP @ 2600 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 24.0 +-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:** WOODWARD

# HARTZELL

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CESSNA

IDS No.: 2143

Rev.: -

DM Date: 11/20/2003

Model: 182,A,B,C,D,E,F,G

Trade Name: SKYLANE

Aircraft T.C./STC: 3A13

Propeller Model: BHC-82VF-1, BHC-A2VF-1, BHC-82VF-1A, BHC-A2VF-1A

Propeller T.C.: P24EA

Blade Model(s): V8433-2

V8433N-2

Prop Diameter: 82.2" TO 80"

### Prop Setup:

Ref. Radius: 30

Reverse Angle: NA

Low Pitch Angle: 12.0 +-0.2

Stud Protrusion

Modifier:

Engine Model: O-470-L, -R

Power: 230 HP @ 2600 RPM

Placard/Restr:

Notes:

Startlock Angle: NA

Feather/High Angle: 24.0 +-0.5

Cwt Angle: Positive

### Non-HPI Items:

Non-HPI Spinner: CESSNA

Non-HPI Governor: WOODWARD

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>            | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|-------------------------------|-----------------|----------------|-----------------|
| BLADE            | V8433-2            | BLADE                         | 2               | Prop           |                 |
| BLADE            | V8433N-2           | BLADE                         | 2               | Prop           |                 |
| SPINNER          | 835-13             | SPINNER ASSEMBLY              | 1               | Prop           |                 |
| SPIN MTG KIT     | A-3817             | NUT,1/4-28,HEX,SELF-LOCKING   | 4               | Prop           | Secondary       |
| SPIN MTG KIT     | B-3384-17H         | BOLT, 1/4-28, HEX HEAD        | 4               | Prop           |                 |
| SPIN MTG KIT     | B-3808-4           | NUT,HEX,SELF-LOCKING          | 4               | Prop           | Primary         |
| SPIN MTG KIT     | B-3851-0463        | WASHER                        | 4               | Prop           |                 |
| MTG BOLT/STUD    | A-1328-1           | BOLT,MOUNTING,1/2-20,12 POINT | 6               | Prop           |                 |

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**CESSNA**

**Model:** 182,A,B,C,D,E,F,G  
**Trade Name:** SKYLANE  
**Aircraft T.C./STC:** 3A13  
**Propeller Model:** BHC-A2MVF-1A  
**Propeller T.C.:** P24EA  
**Blade Model(s):** MV8433N-2  
**Prop Diameter:** 82.2" TO 80"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.0 +-0.2  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:** CESSNA

**IDS No.:** 370      **Rev.:** 2      **IC Date:** 07/06/2015

**Modifier:**  
**Engine Model:** O-470-L, -R  
**Power:** 230 HP @ 2600 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 24.0 +-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:** WOODWARD

**Hartzell Approved Items:**

| Item Type     | Item Number     | Description                   | Quantity | Qty Per | Comments                 |
|---------------|-----------------|-------------------------------|----------|---------|--------------------------|
| PROPELLER     | A2F10018        | BHC-A2MVF-1A/MV8433N-2        | 1        | A/C     |                          |
| BLADE         | MV8433N-2       | PCP:BLADE UNIT, ALUMINUM      | 2        | Prop    |                          |
| SPINNER       | 835-13          | SPINNER ASSEMBLY              | 1        | Prop    |                          |
| SPIN MTG KIT  | A-3817          | NUT,1/4-28,HEX,SELF-LOCKING   | 4        | Prop    | Secondary                |
| SPIN MTG KIT  | B-3384-17H      | BOLT, 1/4-28, HEX HEAD        | 4        | Prop    |                          |
| SPIN MTG KIT  | B-3808-4        | NUT,HEX,SELF-LOCKING          | 4        | Prop    | Primary                  |
| SPIN MTG KIT  | B-3851-0463     | WASHER                        | 4        | Prop    |                          |
| MTG BOLT/STUD | A-1328-1        | BOLT,MOUNTING,1/2-20,12 POINT | 6        | Prop    |                          |
| OVERHAUL KIT  | BHC-A2MVF-1A-OH | O/H KIT                       | 1        | Prop    | For aftermarket use only |

**CESSNA**

**Model:** 182,A,B,C,D,E,F,G  
**Trade Name:** SKYLANE  
**Aircraft T.C./STC:** 3A13  
**Propeller Model:** BHC-C2YF-1B  
**Propeller T.C.:**  
**Blade Model(s):** F8468-2  
**Prop Diameter:** 82.0" TO 80.0"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.0 +-0.2  
**Stud Protrusion** 1.450 +-0.030

**Non-HPI Items:**

**Non-HPI Spinner:** CESSNA

**IDS No.:** 369      **Rev.:** -      **DM Date:** 06/06/2006

**Modifier:**  
**Engine Model:** O-470-L,-R  
**Power:** 230 HP @ 2600 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 24.0 +-0.5  
**Cwt Angle:**

**Non-HPI Governor:** WOODWARD

**Hartzell Approved Items:**

| Item Type     | Item Number | Description              | Quantity | Qty Per | Comments |
|---------------|-------------|--------------------------|----------|---------|----------|
| BLADE         | F8468-2     | PCP:BLADE UNIT, ALUMINUM | 2        | Prop    |          |
| SPINNER       | 835-23      | SPINNER ASSEMBLY         | 1        | Prop    |          |
| MTG BOLT/STUD | A-2429-4    | STUD, MOUNTING, 1/2-20   | 6        | Prop    |          |

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**CESSNA**

**Model:** 182(E, F, G, H, J, K, L, M, N, P, Q, R)  
**Trade Name:** SKYLANE  
**Aircraft T.C./STC:** SA3825SW  
**Propeller Model:** BHC-G2YF-1BF  
**Propeller T.C.:** P39EA  
**Blade Model(s):** F8468A-2R  
**Prop Diameter:** 82" TO 80"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** 13.0 +-0.2  
**Stud Protrusion** 1.450 +-0.030

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number     | Description                  | Quantity | Qty Per | Comments                 |
|---------------|-----------------|------------------------------|----------|---------|--------------------------|
| PROPELLER     | G2F00013        | BHC-G2YF-1BF/F8468A-2R/SM4   | 1        | A/C     |                          |
| BLADE         | F8468A-2R       | PCP:BLADE UNIT, ALUM [1,1,1] | 2        | Prop    |                          |
| SPINNER       | D-4798-2P       | SPINNER ASSEMBLY             | 1        | Prop    |                          |
| SPINNER       | D-4798P         | SPINNER ASSEMBLY             | 1        | Prop    |                          |
| SPIN MTG KIT  | A-2476-4        | SPINNER - MTG KIT            | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2429-4        | STUD, MOUNTING, 1/2-20       | 6        | Prop    |                          |
| OVERHAUL KIT  | BHC-G2YF-1BF-OH | O/H KIT                      | 1        | Prop    | For aftermarket use only |

**IDS No.:** 2032      **Rev.:** 2      **IC**      **Date:** 09/16/2022

**Modifier:** PETERSON CONVERSION  
**Engine Model:** IO-470-F  
**Power:** 260 HP @ 2625 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:**  
**Feather/High Angle:** 31.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

**CESSNA**

**Model:** 182 THRU 182G  
**Trade Name:** SKYLANE  
**Aircraft T.C./STC:** STC-SA09000SC  
**Propeller Model:** PHC-G3YF-1RF  
**Propeller T.C.:** P55GL  
  
**Blade Model(s):** F7691  
**Prop Diameter:** 78.0" TO 77.0"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.7 +-0.2  
**Stud Protrusion** 1.450 +-0.030

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number     | Description                  | Quantity | Qty Per | Comments                 |
|---------------|-----------------|------------------------------|----------|---------|--------------------------|
| PROPELLER     | G3F00022        | PHC-G3YF-1RF/F7691/SM25      | 1        | A/C     |                          |
| BLADE         | F7691           | PCP:BLADE UNIT, ALUM [1,1,5] | 3        | Prop    |                          |
| SPINNER       | D-4798-3P       | SPINNER ASSEMBLY             | 1        | Prop    |                          |
| SPIN MTG KIT  | A-2476-25       | SPINNER - MTG KIT            | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2429-4        | STUD, MOUNTING, 1/2-20       | 6        | Prop    |                          |
| OVERHAUL KIT  | PHC-G3YF-1RF-OH | O/H KIT                      | 1        | Prop    | For aftermarket use only |

**IDS No.:** 1719      **Rev.:** 2      **IC**      **Date:** 07/16/2015

**Modifier:** HARTZELL PROPELLER  
**Engine Model:** O-470-L, -R, -S  
**Power:** 230 HP @ 2600 RPM  
**Placard/Restr:** Refer to 8110-3 and/or STC for further information.

**Notes:**  
  
**Startlock Angle:** NA  
**Feather/High Angle:** 33.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

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CESSNA

**Model:** 182, 182A THRU G  
**Trade Name:** SKYLANE  
**Aircraft T.C./STC:** STC-SA09000SC  
**Propeller Model:** BHC-G2YF-1BF  
**Propeller T.C.:** P39EA

**Blade Model(s):** F8468A-2R  
**Prop Diameter:** 82" TO 80"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.0 +-0.2  
**Stud Protrusion** 1.450 +-0.030

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 1721      **Rev.:** 2      **IC Date:** 07/07/2015

**Modifier:** HARTZELL PROPELLER  
**Engine Model:** O-470-L, -R, -S  
**Power:** 230 HP @ 2600 RPM  
**Placard/Restr:** Refer to 8110-3 and/or STC for further information.

**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 24.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>           | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|------------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | G2F00012           | BHC-G2YF-1BF/F8468A-2R/SM4   | 1               | A/C            |                          |
| BLADE            | F8468A-2R          | PCP:BLADE UNIT, ALUM [1,1,1] | 2               | Prop           |                          |
| SPINNER          | D-4798-2P          | SPINNER ASSEMBLY             | 1               | Prop           |                          |
| SPIN MTG KIT     | A-2476-4           | SPINNER - MTG KIT            | 1               | Prop           |                          |
| MTG BOLT/STUD    | A-2429-4           | STUD, MOUNTING, 1/2-20       | 6               | Prop           |                          |
| OVERHAUL KIT     | BHC-G2YF-1BF-OH    | O/H KIT                      | 1               | Prop           | For aftermarket use only |

CESSNA

**Model:** 182, 182(A-H), (J-N), (P-R)  
**Trade Name:** SKYLANE  
**Aircraft T.C./STC:** STC-SA00854AT  
**Propeller Model:** PHC-G3YF-1RF  
**Propeller T.C.:** P55GL  
**Blade Model(s):** F7691  
**Prop Diameter:** 78.0" TO 77.0"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.5 +-0.1  
**Stud Protrusion** 1.450 +-0.030

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 1467      **Rev.:** -      **DM Date:** 12/06/1999

**Modifier:** JOHN JEWELL AVIATION  
**Engine Model:** O-470-L, -R, -S  
**Power:** 230 HP @ 2600 RPM  
**Placard/Restr:**

**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 31.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>           | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|------------------------------|-----------------|----------------|-----------------|
| BLADE            | F7691              | PCP:BLADE UNIT, ALUM [1,1,5] | 3               | Prop           |                 |
| SPINNER          | D-5732-P           | SPINNER ASSEMBLY             | 1               | Prop           |                 |
| SPIN MTG KIT     | A-2476-7           | SPINNER - MTG KIT            | 1               | Prop           |                 |
| MTG BOLT/STUD    | A-2429-4           | STUD, MOUNTING, 1/2-20       | 6               | Prop           |                 |



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**CESSNA**

**Model:** 182, 182(A-H), (J-N), (P-R)  
**Trade Name:** SKYLANE  
**Aircraft T.C./STC:** STC-SA00854AT  
**Propeller Model:** PHC-G3YF-1RF  
**Propeller T.C.:** P55GL  
**Blade Model(s):** F8468A-6R  
**Prop Diameter:** 80.0" TO 78.0"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 10.9 +- 0.1  
**Stud Protrusion** 1.450 +-0.030

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number     | Description                  | Quantity | Qty Per | Comments                 |
|---------------|-----------------|------------------------------|----------|---------|--------------------------|
| PROPELLER     | G3F00003        | PHC-G3YF-1RF/F8468A-6R/SM7   | 1        | A/C     |                          |
| BLADE         | F8468A-6R       | PCP:BLADE UNIT, ALUM [1,1,1] | 3        | Prop    |                          |
| SPINNER       | D-5732-P        | SPINNER ASSEMBLY             | 1        | Prop    |                          |
| SPIN MTG KIT  | A-2476-7        | SPINNER - MTG KIT            | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2429-4        | STUD, MOUNTING, 1/2-20       | 6        | Prop    |                          |
| OVERHAUL KIT  | PHC-G3YF-1RF-OH | O/H KIT                      | 1        | Prop    | For aftermarket use only |

**IDS No.:** 1418      **Rev.:** 1      **IC Date:** 07/16/2015

**Modifier:** JOHN JEWELL AVIATION  
**Engine Model:** O-470-L, -R, -S, -U  
**Power:** 230 HP @ 2600 RPM  
**Placard/Restr:**  
**Notes:** Engine Ratings Note: O-470-U (2400rpm)

**Startlock Angle:** NA  
**Feather/High Angle:** 31.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

**CESSNA**

**Model:** 182 thru 182G  
**Trade Name:** SKYLANE  
**Aircraft T.C./STC:** SA01443AT  
**Propeller Model:** PHC-C3YF-1RF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** F7691  
**Prop Diameter:** 78.0" TO 77.0"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.9 +-0.1  
**Stud Protrusion** 1.450 +-0.030

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number     | Description                  | Quantity | Qty Per | Comments                                |
|---------------|-----------------|------------------------------|----------|---------|---|
| PROPELLER     | C3F00019        | PHC-C3YF-1RF/F7691/SM7       | 1        | A/C     |   |
| PROPELLER     | C3F00019KD      | PHC-C3YF-1RF/F7691/SM7       | 1        | A/C     |   |
| BLADE         | F7691           | PCP:BLADE UNIT, ALUM [1,1,5] | 3        | Prop    |   |
| SPINNER       | A-2295-1        | SPINNER ASSEMBLY             | 1        | A/C     |   |
| SPINNER       | A-2295-1P       | SPINNER ASSEMBLY             | 1        | A/C     |   |
| SPINNER       | C-3535-1        | SPINNER ASSEMBLY             | 1        | A/C     |   |
| SPINNER       | C-3535-1P       | SPINNER ASSEMBLY             | 1        | A/C     |   |
| SPIN MTG KIT  | A-2476-7        | SPINNER - MTG KIT            | 1        | Prop    |   |
| MTG BOLT/STUD | A-2429-4        | STUD, MOUNTING, 1/2-20       | 6        | Prop    | Use w/E-7154-2R hub only                |
| MTG BOLT/STUD | A-2429-7        | STUD, MOUNTING, 1/2-20       | 6        | Prop    | Use w/E-7154-12R & E-7154-42R hubs only |
| OVERHAUL KIT  | PHC-C3YF-1RF-OH | O/H KIT                      | 1        | Prop    |   |

**IDS No.:** 1477      **Rev.:** 1      **IC Date:** 03/18/2019

**Modifier:** JOHN JEWELL AIRCRAFT, INC.  
**Engine Model:** O-470-U (with STC SE01153AT)  
**Power:** 252 HP @ 2625 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 31.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

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**CESSNA**

**Model:** 182(Q,R)  
**Trade Name:** SKYLANE  
**Aircraft T.C./STC:** SA00854AT  
**Propeller Model:** PHC-G3YF-1RF  
**Propeller T.C.:** P55GL  
**Blade Model(s):** F8468A-6R  
**Prop Diameter:** 80.0" TO 77.0"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.0 +-0.1  
**Stud Protrusion** 1.450 +-0.030

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number     | Description                  | Quantity | Qty Per | Comments                 |
|---------------|-----------------|------------------------------|----------|---------|--------------------------|
| PROPELLER     | G3F00950        | PHC-G3YF-1RF/F8468A-6R/SM7   | 1        | A/C     |                          |
| PROPELLER     | G3F00950KD      | PHC-G3YF-1RF/F8468A-6R/SM7   | 1        | A/C     |                          |
| BLADE         | F8468A-6R       | PCP:BLADE UNIT, ALUM [1,1,1] | 3        | Prop    |                          |
| SPINNER       | D-5732-P        | SPINNER ASSEMBLY             | 1        | Prop    |                          |
| SPIN MTG KIT  | A-2476-7        | SPINNER - MTG KIT            | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2429-4        | STUD, MOUNTING, 1/2-20       | 6        | Prop    |                          |
| OVERHAUL KIT  | PHC-G3YF-1RF-OH | O/H KIT                      | 1        | Prop    | For aftermarket use only |

**IDS No.:** 3607      **Rev.:** 1      **IC Date:** 02/22/2019

**Modifier:** JOHN JEWELL AIRCRAFT, INC.  
**Engine Model:** O-470-U  
**Power:** 230 HP @ 2400 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 31.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

**CESSNA**

**Model:** 182(Q,R)  
**Trade Name:** SKYLANE  
**Aircraft T.C./STC:** SA00854AT  
**Propeller Model:** PHC-G3YF-1RF  
**Propeller T.C.:** P55GL  
**Blade Model(s):** F7691  
**Prop Diameter:** 78.0" TO 77.0"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 14.1 +-0.1  
**Stud Protrusion** 1.450 +-0.030

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number | Description                  | Quantity | Qty Per | Comments |
|---------------|-------------|------------------------------|----------|---------|----------|
| PROPELLER     | G3F00701    | PHC-G3YF-1RF/F7691/SM7       | 1        | A/C     |          |
| PROPELLER     | G3F00701KD  | PHC-G3YF-1RF/F7691/SM7       | 1        | A/C     |          |
| BLADE         | F7691       | PCP:BLADE UNIT, ALUM [1,1,5] | 3        | Prop    |          |
| SPINNER       | D-5732-P    | SPINNER ASSEMBLY             | 1        | Prop    |          |
| SPIN MTG KIT  | A-2476-7    | SPINNER - MTG KIT            | 1        | Prop    |          |
| MTG BOLT/STUD | A-2429-4    | STUD, MOUNTING, 1/2-20       | 6        | Prop    |          |

**IDS No.:** 1578      **Rev.:** 1      **IC Date:** 03/13/2019

**Modifier:** JOHN JEWELL AIRCRAFT, INC.  
**Engine Model:** O-470-U  
**Power:** 230 HP @ 2400 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 31.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

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CESSNA

**Model:** 182H, 182J thru 182N, 182P thru 182R  
**Trade Name:** SKYLANE  
**Aircraft T.C./STC:** SA01443AT  
**Propeller Model:** PHC-G3YF-1RF  
**Propeller T.C.:** P55GL  
**Blade Model(s):** F7691  
**Prop Diameter:** 78.0" TO 77.0"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.9 +-0.1  
**Stud Protrusion** 1.450 +-0.030

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number     | Description                  | Quantity | Qty Per | Comments                 |
|---------------|-----------------|------------------------------|----------|---------|--------------------------|
| PROPELLER     | G3F00023        | PHC-G3YF-1RF/F7691/SM7       | 1        | A/C     |                          |
| PROPELLER     | G3F00023KD      | PHC-G3YF-1RF/F7691/SM7       | 1        | A/C     |                          |
| BLADE         | F7691           | PCP:BLADE UNIT, ALUM [1,1,5] | 3        | Prop    |                          |
| SPINNER       | D-5732-P        | SPINNER ASSEMBLY             | 1        | Prop    |                          |
| SPIN MTG KIT  | A-2476-7        | SPINNER - MTG KIT            | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2429-4        | STUD, MOUNTING, 1/2-20       | 6        | Prop    |                          |
| OVERHAUL KIT  | PHC-G3YF-1RF-OH | O/H KIT                      | 1        | Prop    | For aftermarket use only |

**IDS No.:** 1476      **Rev.:** 4      **IC Date:** 03/18/2019

**Modifier:** JOHN JEWELL AIRCRAFT, INC.  
**Engine Model:** O-470-U (with STC SE01153AT)  
**Power:** 252 HP @ 2625 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 31.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

CESSNA

**Model:** 182, 182(A-H), (J-N), (P-R)  
**Trade Name:** SKYLANE  
**Aircraft T.C./STC:** STC-SA01302AT  
**Propeller Model:** PHC-C3YF-1RF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** F8468A-6R  
**Prop Diameter:** 80.0" TO 78.0"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 10.4 +-0.1  
**Stud Protrusion** 1.450 +-0.030

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number | Description                  | Quantity | Qty Per | Comments |
|---------------|-------------|------------------------------|----------|---------|----------|
| BLADE         | F8468A-6R   | PCP:BLADE UNIT, ALUM [1,1,1] | 3        | Prop    |          |
| SPINNER       | D-5732-P    | SPINNER ASSEMBLY             | 1        | Prop    |          |
| SPIN MTG KIT  | A-2476-7    | SPINNER - MTG KIT            | 1        | Prop    |          |
| MTG BOLT/STUD | A-2429-4    | STUD, MOUNTING, 1/2-20       | 6        | Prop    |          |

**IDS No.:** 1472      **Rev.:** -      **DM Date:** 02/16/2000

**Modifier:** JOHN JEWELL AIRCRAFT, INC.  
**Engine Model:** IO-520-D  
**Power:** 285 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 31.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

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CESSNA

**Model:** 182, 182(A-H), (J-N), (P-R)  
**Trade Name:** SKYLANE  
**Aircraft T.C./STC:** STC-SA01302AT  
**Propeller Model:** PHC-C3YF-1RF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** F7691  
**Prop Diameter:** 78.0" TO 77.0"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 11.8 +-0.1  
**Stud Protrusion** 1.450 +-0.030

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number | Description                  | Quantity | Qty Per | Comments |
|---------------|-------------|------------------------------|----------|---------|----------|
| BLADE         | F7691       | PCP:BLADE UNIT, ALUM [1,1,5] | 3        | Prop    |          |
| SPINNER       | D-5732-P    | SPINNER ASSEMBLY             | 1        | Prop    |          |
| SPIN MTG KIT  | A-2476-7    | SPINNER - MTG KIT            | 1        | Prop    |          |
| MTG BOLT/STUD | A-2429-4    | STUD, MOUNTING, 1/2-20       | 6        | Prop    |          |

**IDS No.:** 1473      **Rev.:** -      **DM Date:** 02/16/2000

**Modifier:** JOHN JEWELL AIRCRAFT, INC.  
**Engine Model:** IO-520-D  
**Power:** 285 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 31.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

CESSNA

**Model:** 182, 182(A-H), (J-N), (P-R)  
**Trade Name:** SKYLANE  
**Aircraft T.C./STC:** STC-SA01302AT  
**Propeller Model:** PHC-G3YF-1RF  
**Propeller T.C.:** P55GL  
**Blade Model(s):** F8468A-6R  
**Prop Diameter:** 80.0" TO 78.0"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 10.4 +-0.1  
**Stud Protrusion** 1.450 +-0.030

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number | Description                  | Quantity | Qty Per | Comments |
|---------------|-------------|------------------------------|----------|---------|----------|
| BLADE         | F8468A-6R   | PCP:BLADE UNIT, ALUM [1,1,1] | 3        | Prop    |          |
| SPINNER       | D-5732-P    | SPINNER ASSEMBLY             | 1        | Prop    |          |
| SPIN MTG KIT  | A-2476-7    | SPINNER - MTG KIT            | 1        | Prop    |          |
| MTG BOLT/STUD | A-2429-4    | STUD, MOUNTING, 1/2-20       | 6        | Prop    |          |

**IDS No.:** 1475      **Rev.:** -      **DM Date:** 02/16/2000

**Modifier:** JOHN JEWELL AIRCRAFT, INC.  
**Engine Model:** IO-520-D  
**Power:** 285 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 31.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

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CESSNA

**Model:** 182H, 182J thru 182N, 182P thru 182R  
**Trade Name:** SKYLANE  
**Aircraft T.C./STC:** STC-SA01302AT  
**Propeller Model:** PHC-G3YF-1RF  
**Propeller T.C.:** P55GL  
**Blade Model(s):** F7691  
**Prop Diameter:** 78.0" TO 77.0"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 11.8 +-0.1  
**Stud Protrusion** 1.450 +-0.030

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number | Description                  | Quantity | Qty Per | Comments |
|---------------|-------------|------------------------------|----------|---------|----------|
| PROPELLER     | G3F00704    | PHC-G3YF-1RF/F7691/SM7       | 1        | A/C     |          |
| PROPELLER     | G3F00704KD  | PHC-G3YF-1RF/F7691/SM7       | 1        | A/C     |          |
| BLADE         | F7691       | PCP:BLADE UNIT, ALUM [1,1,5] | 3        | Prop    |          |
| SPINNER       | D-5732-P    | SPINNER ASSEMBLY             | 1        | Prop    |          |
| SPIN MTG KIT  | A-2476-7    | SPINNER - MTG KIT            | 1        | Prop    |          |
| MTG BOLT/STUD | A-2429-4    | STUD, MOUNTING, 1/2-20       | 6        | Prop    |          |

**IDS No.:** 1474      **Rev.:** 1      **IC Date:** 03/20/2019

**Modifier:** JOHN JEWELL AIRCRAFT, INC.  
**Engine Model:** IO-520-D  
**Power:** 300 HP @ 2850 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 31.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

CESSNA

**Model:** 182, 182(A-H), (J-N), (P-R)  
**Trade Name:** SKYLANE  
**Aircraft T.C./STC:** STC-SA01218AT  
**Propeller Model:** PHC-G3YF-1RF  
**Propeller T.C.:** P55GL  
**Blade Model(s):** F7691  
**Prop Diameter:** 78.0" TO 77.0"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.4 +-0.1  
**Stud Protrusion** 1.450 +-0.030

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number | Description                  | Quantity | Qty Per | Comments |
|---------------|-------------|------------------------------|----------|---------|----------|
| BLADE         | F7691       | PCP:BLADE UNIT, ALUM [1,1,5] | 3        | Prop    |          |
| SPINNER       | D-5732-P    | SPINNER ASSEMBLY             | 1        | Prop    |          |
| SPIN MTG KIT  | A-2476-7    | SPINNER - MTG KIT            | 1        | Prop    |          |
| MTG BOLT/STUD | A-2429-4    | STUD, MOUNTING, 1/2-20       | 6        | Prop    |          |

**IDS No.:** 1471      **Rev.:** -      **DM Date:** 11/17/1997

**Modifier:** JOHN JEWELL AIRCRAFT, INC.  
**Engine Model:** IO-550-D  
**Power:** 300 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 31.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

# HARTZELL

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**CESSNA**

**Model:** 182, 182(A-H), (J-N), (P-R)  
**Trade Name:** SKYLANE  
**Aircraft T.C./STC:** STC-SA01218AT  
**Propeller Model:** PHC-C3YF-1RF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** F7691  
**Prop Diameter:** 78.0" TO 77.0"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.4 +-0.1  
**Stud Protrusion** 1.450 +-0.030

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number     | Description                  | Quantity | Qty Per | Comments                                   |
|---------------|-----------------|------------------------------|----------|---------|--|
| PROPELLER     | C3F00027        | PHC-C3YF-1RF/F7691/SM7       | 1        | A/C     |  |
| BLADE         | F7691           | PCP:BLADE UNIT, ALUM [1,1,5] | 3        | Prop    |  |
| SPINNER       | D-5732-P        | SPINNER ASSEMBLY             | 1        | Prop    |  |
| SPIN MTG KIT  | A-2476-7        | SPINNER - MTG KIT            | 1        | Prop    |  |
| MTG BOLT/STUD | A-2429-4        | STUD, MOUNTING, 1/2-20       | 6        | Prop    | Use w/E-7154-2R Hub Only                   |
| MTG BOLT/STUD | A-2429-7        | STUD, MOUNTING, 1/2-20       | 6        | Prop    | Use with E-7154-12R & E-7154-42R hubs only |
| OVERHAUL KIT  | PHC-C3YF-1RF*1  | O/H KIT W/O SLIMSERTS        | 1        | Prop    | For aftermarket use only                   |
| OVERHAUL KIT  | PHC-C3YF-1RF-OH | O/H KIT                      | 1        | Prop    | For aftermarket use only                   |

**IDS No.:** 1470      **Rev.:** 2      **IC**      **Date:** 07/16/2015

**Modifier:** JOHN JEWELL AIRCRAFT, INC.  
**Engine Model:** IO-550-D  
**Power:** 300 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 31.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

**CESSNA**

**Model:** 182, 182(A-H), (J-N), (P-R)  
**Trade Name:** SKYLANE  
**Aircraft T.C./STC:** STC-SA01218AT  
**Propeller Model:** PHC-C3YF-1RF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** F8468A-6R  
**Prop Diameter:** 80.0" TO 78.0"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 11.7 +-0.1  
**Stud Protrusion** 1.450 +-0.030

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number | Description                  | Quantity | Qty Per | Comments |
|---------------|-------------|------------------------------|----------|---------|----------|
| BLADE         | F8468A-6R   | PCP:BLADE UNIT, ALUM [1,1,1] | 3        | Prop    |          |
| SPINNER       | D-5732-P    | SPINNER ASSEMBLY             | 1        | Prop    |          |
| SPIN MTG KIT  | A-2476-7    | SPINNER - MTG KIT            | 1        | Prop    |          |
| MTG BOLT/STUD | A-2429-4    | STUD, MOUNTING, 1/2-20       | 6        | Prop    |          |

**IDS No.:** 1469      **Rev.:** -      **DM**      **Date:** 02/16/2000

**Modifier:** JOHN JEWELL AIRCRAFT, INC.  
**Engine Model:** IO-550-D  
**Power:** 300 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 31.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

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CESSNA

**Model:** 182H, 182J thru 182N, 182P thru 182R  
**Trade Name:** SKYLANE  
**Aircraft T.C./STC:** SA01218AT  
**Propeller Model:** PHC-G3YF-1RF  
**Propeller T.C.:** P55GL  
**Blade Model(s):** F8468A-6R  
**Prop Diameter:** 80.0" TO 77.0"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 11.7 +-0.1  
**Stud Protrusion** 1.450 +-0.030

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number     | Description                  | Quantity | Qty Per | Comments                 |
|---------------|-----------------|------------------------------|----------|---------|--------------------------|
| PROPELLER     | G3F00012        | PHC-G3YF-1RF/F8468A-6R/SM7   | 1        | A/C     |                          |
| BLADE         | F8468A-6R       | PCP:BLADE UNIT, ALUM [1,1,1] | 3        | Prop    |                          |
| SPINNER       | D-5732-P        | SPINNER ASSEMBLY             | 1        | Prop    |                          |
| SPIN MTG KIT  | A-2476-7        | SPINNER - MTG KIT            | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2429-4        | STUD, MOUNTING, 1/2-20       | 6        | Prop    |                          |
| OVERHAUL KIT  | PHC-G3YF-1RF-OH | O/H KIT                      | 1        | Prop    | For aftermarket use only |

**IDS No.:** 1088      **Rev.:** 2      **IC Date:** 03/26/2018

**Modifier:** JOHN JEWELL AIRCRAFT, INC.  
**Engine Model:** IO-550-D  
**Power:** 300 HP @ 2700 RPM  
**Placard/Restr:** None.  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 31.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

CESSNA

**Model:** 182E, F, G, H, J, K, L, M  
**Trade Name:** SKYLANE  
**Aircraft T.C./STC:** STC-SA692SW  
**Propeller Model:** BHC-82XF-3, BHC-A2XF-3  
**Propeller T.C.:** P24EA  
**Blade Model(s):** 8433-2  
**Prop Diameter:** 82.3"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:**  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type                    | Item Number | Description                      | Quantity | Qty Per | Comments |
|------------------------------|-------------|----------------------------------|----------|---------|----------|
| BLADE                        | 8433-2      | BLADE                            | 2        | Prop    |          |
| COUNTERWEIGHT SLUG A-619-6   |             | SLUG, COUNTERWEIGHT              | 1        | Blade   |          |
| COUNTERWEIGHT SLUG A-890-8   |             | PCP:SLUG, COUNTERWEIGHT          | 1        | Blade   |          |
| COUNTERWEIGHT SLUG B-3384-23 |             | BOLT, 1/4-28, HEX HEAD           | 2        | Blade   |          |
| COUNTERWEIGHT SLUG B-3808-4  |             | NUT, HEX, SELF-LOCKING           | 2        | Blade   |          |
| MTG BOLT/STUD                | A-1328-1    | BOLT, MOUNTING, 1/2-20, 12 POINT | 6        | Prop    |          |

**IDS No.:** 2148      **Rev.:** -      **DM Date:** 11/20/2003

**Modifier:** AEROSTOL CO.  
**Engine Model:**  
**Power:** HP @ RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:**  
**Cwt Angle:** Unknown

**Non-HPI Governor:**

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**CESSNA**

**Model:** 182E, F, G, H, J, K, L, M  
**Trade Name:** SKYLANE  
**Aircraft T.C./STC:** STC-SA692SW  
**Propeller Model:** BHC-82VF-3, BHC-A2VF-3  
**Propeller T.C.:** P24EA  
**Blade Model(s):** V8433-2  
V8433N-2  
**Prop Diameter:** 82.3"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:**  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type                    | Item Number | Description                   | Quantity | Qty Per | Comments |
|------------------------------|-------------|-------------------------------|----------|---------|----------|
| BLADE                        | V8433-2     | BLADE                         | 2        | Prop    |          |
| BLADE                        | V8433N-2    | BLADE                         | 2        | Prop    |          |
| COUNTERWEIGHT SLUG A-619-6   |             | SLUG, COUNTERWEIGHT           | 1        | Blade   |          |
| COUNTERWEIGHT SLUG A-890-8   |             | PCP:SLUG, COUNTERWEIGHT       | 1        | Blade   |          |
| COUNTERWEIGHT SLUG B-3384-23 |             | BOLT, 1/4-28, HEX HEAD        | 2        | Blade   |          |
| COUNTERWEIGHT SLUG B-3808-4  |             | NUT,HEX,SELF-LOCKING          | 2        | Blade   |          |
| MTG BOLT/STUD                | A-1328-1    | BOLT,MOUNTING,1/2-20,12 POINT | 6        | Prop    |          |

**IDS No.:** 2149      **Rev.:** -      **DM Date:** 11/20/2003

**Modifier:** AEROSTOL CO.  
**Engine Model:**  
**Power:** HP @ RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:**  
**Cwt Angle:** Unknown

**Non-HPI Governor:**

**CESSNA**

**Model:** 182E, F, G, H, J, K, L, M  
**Trade Name:** SKYLANE  
**Aircraft T.C./STC:** STC-SA692SW  
**Propeller Model:** BHC-A2MVF-3  
**Propeller T.C.:** P24EA  
**Blade Model(s):** MV8433N-2  
**Prop Diameter:** 82.3"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:**  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type                    | Item Number | Description                   | Quantity | Qty Per | Comments |
|------------------------------|-------------|-------------------------------|----------|---------|----------|
| BLADE                        | MV8433N-2   | PCP:BLADE UNIT, ALUMINUM      | 2        | Prop    |          |
| COUNTERWEIGHT SLUG A-619-6   |             | SLUG, COUNTERWEIGHT           | 1        | Blade   |          |
| COUNTERWEIGHT SLUG A-890-8   |             | PCP:SLUG, COUNTERWEIGHT       | 1        | Blade   |          |
| COUNTERWEIGHT SLUG B-3384-23 |             | BOLT, 1/4-28, HEX HEAD        | 2        | Blade   |          |
| COUNTERWEIGHT SLUG B-3808-4  |             | NUT,HEX,SELF-LOCKING          | 2        | Blade   |          |
| MTG BOLT/STUD                | A-1328-1    | BOLT,MOUNTING,1/2-20,12 POINT | 6        | Prop    |          |

**IDS No.:** 373      **Rev.:** -      **DM Date:** 05/13/1998

**Modifier:** AEROSTOL CO.  
**Engine Model:**  
**Power:** HP @ RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:**  
**Cwt Angle:** Unknown

**Non-HPI Governor:**



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CESSNA

IDS No.: 1720 Rev.: 2 IC Date: 07/07/2015

**Model:** 182 H THRU 182P  
**Trade Name:** SKYLANE  
**Aircraft T.C./STC:** STC-SA09000SC  
**Propeller Model:** BHC-G2YF-1BF  
**Propeller T.C.:** P39EA  
**Blade Model(s):** F8468A-2R  
**Prop Diameter:** 82" TO 80"

**Modifier:** HARTZELL PROPELLER  
**Engine Model:** O-470-L, -R, -S  
**Power:** 230 HP @ 2600 RPM  
**Placard/Restr:**  
**Notes:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.0 +-0.2  
**Stud Protrusion** 1.450 +-0.030

**Startlock Angle:** NA  
**Feather/High Angle:** 24.0 +-1.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>           | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|------------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | G2F00011           | BHC-G2YF-1BF/F8468A-2R/SM4   | 1               | A/C            |                          |
| PROPELLER        | G2F00011STP        | G2F00011/SM4/D-4798-2P       | 1               | A/C            |                          |
| PROPELLER        | G2F00011STP*1      | G2F00011/SM4/D-4798P         | 1               | A/C            |                          |
| BLADE            | F8468A-2R          | PCP:BLADE UNIT, ALUM [1,1,1] | 2               | Prop           |                          |
| SPINNER          | D-4798             | SPINNER ASSEMBLY             | 1               | Prop           |                          |
| SPINNER          | D-4798-2           | SPINNER ASSEMBLY             | 1               | Prop           |                          |
| SPINNER          | D-4798-2P          | SPINNER ASSEMBLY             | 1               | Prop           |                          |
| SPINNER          | D-4798P            | SPINNER ASSEMBLY             | 1               | Prop           |                          |
| SPIN MTG KIT     | A-2476-4           | SPINNER - MTG KIT            | 1               | Prop           |                          |
| MTG BOLT/STUD    | A-2429-4           | STUD, MOUNTING, 1/2-20       | 6               | Prop           |                          |
| OVERHAUL KIT     | BHC-G2YF-1BF-OH    | O/H KIT                      | 1               | Prop           | For aftermarket use only |

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CESSNA

**Model:** 182H THRU 182P  
**Trade Name:** SKYLANE  
**Aircraft T.C./STC:** STC-SA09000SC  
**Propeller Model:** PHC-G3YF-1RF  
**Propeller T.C.:** P55GL

**Blade Model(s):** F7691  
**Prop Diameter:** 78.0" TO 77.0"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.7 +-0.2  
**Stud Protrusion** 1.450 +-0.030

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 1718      **Rev.:** 2      **IC Date:** 07/16/2015

**Modifier:** HARTZELL PROPELLER  
**Engine Model:** O-470-L, -R, -S  
**Power:** 230 HP @ 2600 RPM  
**Placard/Restr:** Refer to 8110-3 and/or STC for further information.

**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 33.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>           | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|------------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | G3F00021           | PHC-G3YF-1RF/F7691/SM25      | 1               | A/C            |                          |
| BLADE            | F7691              | PCP:BLADE UNIT, ALUM [1,1,5] | 3               | Prop           |                          |
| SPINNER          | D-4798-1P          | SPINNER ASSEMBLY             | 1               | Prop           |                          |
| SPIN MTG KIT     | A-2476-25          | SPINNER - MTG KIT            | 1               | Prop           |                          |
| MTG BOLT/STUD    | A-2429-4           | STUD, MOUNTING, 1/2-20       | 6               | Prop           |                          |
| OVERHAUL KIT     | PHC-G3YF-1RF-OH    | O/H KIT                      | 1               | Prop           | For aftermarket use only |

CESSNA

**Model:** 182 H-R  
**Trade Name:** SKYLANE  
**Aircraft T.C./STC:** SA00152WI  
**Propeller Model:** PHC-G3YF-1RF  
**Propeller T.C.:** P55GL  
**Blade Model(s):** F8468A-6R  
**Prop Diameter:** 80.0" TO 78.0"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.2 +-0.2  
**Stud Protrusion** 1.450 +-0.030

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 1954      **Rev.:** 1      **IC Date:** 07/16/2015

**Modifier:** AIR PLAINS SERVICES  
**Engine Model:** IO-550-D  
**Power:** 300 HP @ 2700 RPM  
**Placard/Restr:**

**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 31.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>           | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|------------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | G3F00010           | PHC-G3YF-1RF/F8468A-6R/SM7   | 1               | A/C            |                          |
| BLADE            | F8468A-6R          | PCP:BLADE UNIT, ALUM [1,1,1] | 3               | Prop           |                          |
| SPINNER          | C-4582-P           | SPINNER ASSEMBLY             | 1               | Prop           |                          |
| SPIN MTG KIT     | A-2476-7           | SPINNER - MTG KIT            | 1               | Prop           |                          |
| MTG BOLT/STUD    | A-2429-4           | STUD, MOUNTING, 1/2-20       | 6               | Prop           |                          |
| OVERHAUL KIT     | PHC-G3YF-1RF-OH    | O/H KIT                      | 1               | Prop           | For aftermarket use only |

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**CESSNA**

**Model:** (T)R182  
**Trade Name:** (TURBO) SKYLANE RG  
**Aircraft T.C./STC:** SA00861WI  
**Propeller Model:** HC-C3YR-1RF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** F8468A-6R  
 F8468AB-6R  
**Prop Diameter:** 80"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 11.7 +-0.2  
**Stud Protrusion**

**IDS No.:** 1548 **Rev.:** 2 **IC Date:** 10/01/2015

**Modifier:** AIR PLAINS SERVICES  
**Engine Model:** IO-540-K1A5, K1G5  
**Power:** 300 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 31.0 +-1.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type     | Item Number    | Description                  | Quantity | Qty Per | Comments                       |
|---------------|----------------|------------------------------|----------|---------|--------------------------------|
| PROPELLER     | C3R00072       | HC-C3YR-1RF/F8468AB-6R/SM9   | 1        | A/C     |                                |
| PROPELLER     | C3R00072KD     | HC-C3YR-1RF/F8468AB-6R/SM9   | 0        |         |                                |
| PROPELLER     | C3R00073       | HC-C3YR-1RF/F8468A-6R/SM9    | 1        | A/C     |                                |
| BLADE         | F8468A-6R      | PCP:BLADE UNIT, ALUM [1,1,1] | 3        | Prop    |                                |
| BLADE         | F8468AB-6R     | PCP:BLADE UNIT, ALUM [1,1,1] | 3        | Prop    |                                |
| SPINNER       | A-2295-6P      | SPINNER ASSEMBLY             | 1        | Prop    |                                |
| SPIN MTG KIT  | A-2476-9       | SPINNER - MTG KIT            | 1        | Prop    |                                |
| DE-ICER       | 2H1291         | STRAP, RESTRAINER, DE-ICE    | 1        | Blade   | Blade component(on booted bld) |
| DE-ICER       | 4H1188-11      | DE-ICE BOOT                  | 1        | Blade   | Supersedes 7931-4E1188-11      |
| DE-ICE KIT PR | 7931-5E2706-1  | DE-ICE KIT (ONE PROP)        | 1        | Prop    |                                |
| MTG BOLT/STUD | A-2067         | STUD, MOUNTING, 1/2-20       | 6        | Prop    |                                |
| OVERHAUL KIT  | HC-C3YR-1RF-OH | O/H KIT                      | 1        | Prop    | For aftermarket use only       |

**CESSNA**

**Model:** 182S  
**Trade Name:** SKYLANE  
**Aircraft T.C./STC:** 3A13  
**Propeller Model:** HC-F3YR-1RF  
**Propeller T.C.:**  
**Blade Model(s):** F8068-2X  
**Prop Diameter:** 80"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.0 +-0.2  
**Stud Protrusion**

**IDS No.:** 1623 **Rev.:** - **DM Date:** 02/19/2003

**Modifier:**  
**Engine Model:** IO-540-AB1A5  
**Power:** 235 HP @ 2400 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 30.0 +-1.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type     | Item Number | Description            | Quantity | Qty Per | Comments |
|---------------|-------------|------------------------|----------|---------|----------|
| BLADE         | F8068-2X    | IDS Item               | 3        | Prop    |          |
| SPINNER       | A-2295-4P   | SPINNER ASSEMBLY       | 1        | Prop    |          |
| SPIN MTG KIT  | A-2476-23   | SPINNER - MTG KIT      | 1        | Prop    |          |
| MTG BOLT/STUD | A-2067      | STUD, MOUNTING, 1/2-20 | 6        | Prop    |          |

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CESSNA

IDS No.: 2150      Rev.: -      DM Date: 11/20/2003

**Model:** WREN 460 (C-182)  
**Trade Name:** SKYLANE  
**Aircraft T.C./STC:** STC-SA403SW  
**Propeller Model:** BHC-82XF-3, BHC-A2XF-3  
**Propeller T.C.:** P24EA  
**Blade Model(s):** 8433-2  
**Prop Diameter:** 82.3"

**Modifier:** AEROSTOL CO.  
**Engine Model:**  
**Power:** HP @ RPM  
**Placard/Restr:**  
**Notes:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:**  
**Stud Protrusion**

**Startlock Angle:**  
**Feather/High Angle:**  
**Cwt Angle:** Unknown

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u>             | <u>Item Number</u> | <u>Description</u>            | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------------------|--------------------|-------------------------------|-----------------|----------------|-----------------|
| BLADE                        | 8433-2             | BLADE                         | 2               | Prop           |                 |
| SPINNER                      | 837-11             | SPINNER ASSEMBLY              | 1               | Prop           |                 |
| SPINNER                      | 837-18             | SPINNER ASSEMBLY              | 1               | Prop           |                 |
| COUNTERWEIGHT SLUG A-619-6   |                    | SLUG, COUNTERWEIGHT           | 1               | Blade          |                 |
| COUNTERWEIGHT SLUG A-890-8   |                    | PCP:SLUG, COUNTERWEIGHT       | 1               | Blade          |                 |
| COUNTERWEIGHT SLUG B-3384-23 |                    | BOLT, 1/4-28, HEX HEAD        | 2               | Blade          |                 |
| COUNTERWEIGHT SLUG B-3808-4  |                    | NUT,HEX,SELF-LOCKING          | 2               | Blade          |                 |
| MTG BOLT/STUD                | A-1328-1           | BOLT,MOUNTING,1/2-20,12 POINT | 6               | Prop           |                 |

# HARTZELL

## APPLICATION GUIDE

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CESSNA

IDS No.: 2151      Rev.: -      DM Date: 11/20/2003

**Model:** WREN 460 (C-182)  
**Trade Name:** SKYLANE  
**Aircraft T.C./STC:** STC-SA403SW  
**Propeller Model:** BHC-82VF-3, BHC-A2VF-3  
**Propeller T.C.:** P24EA  
**Blade Model(s):** V8433-2  
                                  V8433N-2  
**Prop Diameter:** 82.3"

**Modifier:** AEROSTOL CO.  
**Engine Model:**  
**Power:** HP @ RPM  
**Placard/Restr:**  
**Notes:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:**  
**Stud Protrusion**

**Startlock Angle:**  
**Feather/High Angle:**  
**Cwt Angle:** Unknown

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u>             | <u>Item Number</u> | <u>Description</u>            | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------------------|--------------------|-------------------------------|-----------------|----------------|-----------------|
| BLADE                        | V8433-2            | BLADE                         | 2               | Prop           |                 |
| BLADE                        | V8433N-2           | BLADE                         | 2               | Prop           |                 |
| SPINNER                      | 837-11             | SPINNER ASSEMBLY              | 1               | Prop           |                 |
| SPINNER                      | 837-18             | SPINNER ASSEMBLY              | 1               | Prop           |                 |
| COUNTERWEIGHT SLUG A-619-6   |                    | SLUG, COUNTERWEIGHT           | 1               | Blade          |                 |
| COUNTERWEIGHT SLUG A-890-8   |                    | PCP:SLUG, COUNTERWEIGHT       | 1               | Blade          |                 |
| COUNTERWEIGHT SLUG B-3384-23 |                    | BOLT, 1/4-28, HEX HEAD        | 2               | Blade          |                 |
| COUNTERWEIGHT SLUG B-3808-4  |                    | NUT,HEX,SELF-LOCKING          | 2               | Blade          |                 |
| MTG BOLT/STUD                | A-1328-1           | BOLT,MOUNTING,1/2-20,12 POINT | 6               | Prop           |                 |

# HARTZELL

## APPLICATION GUIDE

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**CESSNA**

**Model:** WREN 460 (C-182)  
**Trade Name:** SKYLANE  
**Aircraft T.C./STC:** STC-SA403SW  
**Propeller Model:** BHC-A2MVF-3  
**Propeller T.C.:** P24EA  
**Blade Model(s):** MV8433N-2  
**Prop Diameter:** 82.3"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:**  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type                    | Item Number | Description                   | Quantity | Qty Per | Comments |
|------------------------------|-------------|-------------------------------|----------|---------|----------|
| BLADE                        | MV8433N-2   | PCP:BLADE UNIT, ALUMINUM      | 2        | Prop    |          |
| SPINNER                      | 837-11      | SPINNER ASSEMBLY              | 1        | Prop    |          |
| SPINNER                      | 837-18      | SPINNER ASSEMBLY              | 1        | Prop    |          |
| COUNTERWEIGHT SLUG A-619-6   |             | SLUG, COUNTERWEIGHT           | 1        | Blade   |          |
| COUNTERWEIGHT SLUG A-890-8   |             | PCP:SLUG, COUNTERWEIGHT       | 1        | Blade   |          |
| COUNTERWEIGHT SLUG B-3384-23 |             | BOLT, 1/4-28, HEX HEAD        | 2        | Blade   |          |
| COUNTERWEIGHT SLUG B-3808-4  |             | NUT,HEX,SELF-LOCKING          | 2        | Blade   |          |
| MTG BOLT/STUD                | A-1328-1    | BOLT,MOUNTING,1/2-20,12 POINT | 6        | Prop    |          |

**IDS No.:** 378      **Rev.:** -      **DM Date:** 05/13/1998

**Modifier:** AEROSTOL CO.  
**Engine Model:**  
**Power:** HP @ RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:**  
**Feather/High Angle:**  
**Cwt Angle:** Unknown

**Non-HPI Governor:**

**CESSNA**

**Model:** WREN 460H,J,K,L,M (C-182)  
**Trade Name:** SKYLANE  
**Aircraft T.C./STC:** STC-SA485SW  
**Propeller Model:** BHC-82XF-3, BHC-A2XF-3  
**Propeller T.C.:** P24EA  
**Blade Model(s):** 8433-2  
**Prop Diameter:** 82.3"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:**  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type                    | Item Number | Description                   | Quantity | Qty Per | Comments |
|------------------------------|-------------|-------------------------------|----------|---------|----------|
| BLADE                        | 8433-2      | BLADE                         | 2        | Prop    |          |
| SPINNER                      | 837-11      | SPINNER ASSEMBLY              | 1        | Prop    |          |
| SPINNER                      | 837-18      | SPINNER ASSEMBLY              | 1        | Prop    |          |
| COUNTERWEIGHT SLUG A-619-6   |             | SLUG, COUNTERWEIGHT           | 1        | Blade   |          |
| COUNTERWEIGHT SLUG A-890-8   |             | PCP:SLUG, COUNTERWEIGHT       | 1        | Blade   |          |
| COUNTERWEIGHT SLUG B-3384-23 |             | BOLT, 1/4-28, HEX HEAD        | 2        | Blade   |          |
| COUNTERWEIGHT SLUG B-3808-4  |             | NUT,HEX,SELF-LOCKING          | 2        | Blade   |          |
| MTG BOLT/STUD                | A-1328-1    | BOLT,MOUNTING,1/2-20,12 POINT | 6        | Prop    |          |

**IDS No.:** 2152      **Rev.:** -      **DM Date:** 11/20/2003

**Modifier:** AEROSTOL CO.  
**Engine Model:**  
**Power:** HP @ RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:**  
**Feather/High Angle:**  
**Cwt Angle:** Unknown

**Non-HPI Governor:**

# HARTZELL

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CESSNA

**Model:** WREN 460H,J,K,L,M (C-182)  
**Trade Name:** SKYLANE  
**Aircraft T.C./STC:** STC-SA485SW  
**Propeller Model:** BHC-82VF-3, BHC-A2VF-3  
**Propeller T.C.:** P24EA  
**Blade Model(s):** V8433-2  
V8433N-2  
**Prop Diameter:** 82.3"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:**  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

### Hartzell Approved Items:

**IDS No.:** 2153      **Rev.:** -      **DM Date:** 11/20/2003

**Modifier:** AEROSTOL CO.  
**Engine Model:**  
**Power:** HP @ RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:**  
**Feather/High Angle:**  
**Cwt Angle:** Unknown

**Non-HPI Governor:**

| <u>Item Type</u>             | <u>Item Number</u> | <u>Description</u>            | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------------------|--------------------|-------------------------------|-----------------|----------------|-----------------|
| BLADE                        | V8433-2            | BLADE                         | 2               | Prop           |                 |
| BLADE                        | V8433N-2           | BLADE                         | 2               | Prop           |                 |
| SPINNER                      | 837-11             | SPINNER ASSEMBLY              | 1               | Prop           |                 |
| SPINNER                      | 837-18             | SPINNER ASSEMBLY              | 1               | Prop           |                 |
| COUNTERWEIGHT SLUG A-619-6   |                    | SLUG, COUNTERWEIGHT           | 1               | Blade          |                 |
| COUNTERWEIGHT SLUG A-890-8   |                    | PCP:SLUG, COUNTERWEIGHT       | 1               | Blade          |                 |
| COUNTERWEIGHT SLUG B-3384-23 |                    | BOLT, 1/4-28, HEX HEAD        | 2               | Blade          |                 |
| COUNTERWEIGHT SLUG B-3808-4  |                    | NUT,HEX,SELF-LOCKING          | 2               | Blade          |                 |
| MTG BOLT/STUD                | A-1328-1           | BOLT,MOUNTING,1/2-20,12 POINT | 6               | Prop           |                 |

# HARTZELL

## APPLICATION GUIDE

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**CESSNA**

**Model:** WREN 460H,J,K,L,M (C-182)  
**Trade Name:** SKYLANE  
**Aircraft T.C./STC:** STC-SA485SW  
**Propeller Model:** BHC-A2MVF-3  
**Propeller T.C.:** P24EA  
**Blade Model(s):** MV8433N-2  
**Prop Diameter:** 82.3"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:**  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 379      **Rev.:** -      **DM Date:** 05/13/1998

**Modifier:** AEROSTOL CO.

**Engine Model:**

**Power:** HP @ RPM

**Placard/Restr:**

**Notes:**

**Startlock Angle:**

**Feather/High Angle:**

**Cwt Angle:** Unknown

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u>             | <u>Item Number</u> | <u>Description</u>            | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------------------|--------------------|-------------------------------|-----------------|----------------|-----------------|
| BLADE                        | MV8433N-2          | PCP:BLADE UNIT, ALUMINUM      | 2               | Prop           |                 |
| SPINNER                      | 837-11             | SPINNER ASSEMBLY              | 1               | Prop           |                 |
| SPINNER                      | 837-18             | SPINNER ASSEMBLY              | 1               | Prop           |                 |
| COUNTERWEIGHT SLUG A-619-6   |                    | SLUG, COUNTERWEIGHT           | 1               | Blade          |                 |
| COUNTERWEIGHT SLUG A-890-8   |                    | PCP:SLUG, COUNTERWEIGHT       | 1               | Blade          |                 |
| COUNTERWEIGHT SLUG B-3384-23 |                    | BOLT, 1/4-28, HEX HEAD        | 2               | Blade          |                 |
| COUNTERWEIGHT SLUG B-3808-4  |                    | NUT,HEX,SELF-LOCKING          | 2               | Blade          |                 |
| MTG BOLT/STUD                | A-1328-1           | BOLT,MOUNTING,1/2-20,12 POINT | 6               | Prop           |                 |

**CESSNA**

**Model:** A185(E,F)  
**Trade Name:** Skywagon  
**Aircraft T.C./STC:** SA04053CH  
**Propeller Model:** HC-C3YF-1N  
**Propeller T.C.:** P25EA  
**Blade Model(s):** NG8301-3  
**Prop Diameter:** 82

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** 10.4 + - 0.1  
**Stud Protrusion** 1.450 +/- .030

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 3460      **Rev.:** 4      **IC Date:** 04/17/2018

**Modifier:** Wipaire

**Engine Model:** IO-550-D

**Power:** 300 HP @ 2700 RPM

**Placard/Restr:**

**Notes:**

**Startlock Angle:**

**Feather/High Angle:** 30.0 + - 1.0

**Cwt Angle:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>        | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|---------------------------|-----------------|----------------|-----------------|
| PROPELLER        | C3F30200           | HC-C3YF-1N/NG8301-3/SM7   | 1               | A/C            |                 |
| BLADE            | NG8301-3           | PCP:BLADE ASSY, COMPOSITE | 3               | Prop           |                 |
| SPINNER          | A-2295-1P          | SPINNER ASSEMBLY          | 1               | A/C            |                 |
| SPIN MTG KIT     | A-2476-7           | SPINNER - MTG KIT         | 1               | Prop           |                 |
| MTG BOLT/STUD    | A-2429-4           | STUD, MOUNTING, 1/2-20    | 6               | Prop           |                 |



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CESSNA

**Model:** 185( ), U206( ) 207(A) See Notes  
**Trade Name:** ( )Skywagon, Stationair( )  
**Aircraft T.C./STC:** SA02735CH  
**Propeller Model:** HC-C3YF-1RF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** F7693DF+2\*1  
**Prop Diameter:** 80"-78"

**IDS No.:** 2909 **Rev.:** 2 **IC Date:** 07/16/2015

**Modifier:** Vitatoe Aviation LLC  
**Engine Model:** IO-520-F, IO-520-D  
**Power:** 300 HP @ 2850 RPM  
**Placard/Restr:**

**Notes:** Models: 185( ), U206B thru U206G s/n U20604074, 207, 207A. Trade name: Skywagon, Super Skywagon, Stationair, Stationair 7, Stationair 8. C-3575-P: Eligible on Kenmore Air Harbor STC SA525NW. For the Cessna 185, this installation is limited to aircraft that have been converted by Kenmore Air Harbor STC No. SA525NW. A-2476-6 Spinner Mounting Kit and C-3575(-P) Spinner Assembly may only be used together

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** 11.0 + - 0.1  
**Stud Protrusion** 1.450 + - .030

**Startlock Angle:**  
**Feather/High Angle:** 32.0 + - 1.0  
**Cwt Angle:**

### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| Item Type     | Item Number    | Description                    | Quantity | Qty Per | Comments                 |
|---------------|----------------|--------------------------------|----------|---------|--------------------------|
| PROPELLER     | C3F06102       | HC-C3YF-1RF/F7693DF+2*[1]/SM6  | 1        | A/C     |                          |
| PROPELLER     | C3F06102KD     | HC-C3YF-1RF/F7693DF+2*[1]/SM6  | 1        | A/C     |                          |
| BLADE         | F7693DF+2*1    | PCP:BLADE UNIT, ALUM [6,16,11] | 3        | Prop    |                          |
| SPINNER       | A-2295-1       | SPINNER ASSEMBLY               | 1        | Prop    |                          |
| SPINNER       | A-2295-1P      | SPINNER ASSEMBLY               | 1        | Prop    |                          |
| SPINNER       | A-2295-2       | SPINNER ASSEMBLY               | 1        | Prop    |                          |
| SPINNER       | A-2295-2P      | SPINNER ASSEMBLY               | 1        | Prop    |                          |
| SPINNER       | C-3575         | SPINNER ASSEMBLY               | 1        | Prop    | SEE NOTES                |
| SPINNER       | C-3575-P       | SPINNER ASSEMBLY               | 1        | Prop    | SEE NOTES                |
| SPIN MTG KIT  | A-2476-30      | SPINNER - MTG KIT              | 1        | Prop    |                          |
| SPIN MTG KIT  | A-2476-6       | SPINNER - MTG KIT              | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2429-4       | STUD, MOUNTING, 1/2-20         | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-C3YF-1RF-OH | O/H KIT                        | 1        | Prop    | For aftermarket use only |

# HARTZELL

## APPLICATION GUIDE

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CESSNA

**Model:** 185( ), U206( ) 207(A) See Notes  
**Trade Name:** ( )Skywagon, Stationair( )  
**Aircraft T.C./STC:** SA02821CH  
**Propeller Model:** HC-C3YF-1RF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** F7693DF+2\*1  
**Prop Diameter:** 80"-78"

**IDS No.:** 2986 **Rev.:** 3 **IC Date:** 07/16/2015

**Modifier:** Hartzell Propeller  
**Engine Model:** IO-520-F, IO-520-D  
**Power:** 300 HP @ 2850 RPM  
**Placard/Restr:**

**Notes:** Models: 185( ), U206B thru U206G s/n U20604074, 207, 207A. Trade name: Skywagon, Super Skywagon, Stationair, Stationair 7, Stationair 8. C-3575-P: Eligible on Kenmore Air Harbor STC SA525NW. For the Cessna 185, this installation is limited to aircraft that have been converted by Kenmore Air Harbor STC No. SA525NW. A-2476-6 Spinner Mounting Kit and C-3575(-P) Spinner Assembly may only be used together

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** 11.0 + - 0.1  
**Stud Protrusion** 1.450 + - .030

**Startlock Angle:**  
**Feather/High Angle:** 32.0 + - 1.0  
**Cwt Angle:**

### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| Item Type     | Item Number    | Description                    | Quantity | Qty Per | Comments                 |
|---------------|----------------|--------------------------------|----------|---------|--------------------------|
| PROPELLER     | C3F06102       | HC-C3YF-1RF/F7693DF+2*[1]/SM6  | 1        | A/C     |                          |
| PROPELLER     | C3F06102KD     | HC-C3YF-1RF/F7693DF+2*[1]/SM6  | 1        | A/C     |                          |
| BLADE         | F7693DF+2*1    | PCP:BLADE UNIT, ALUM [6,16,11] | 3        | Prop    |                          |
| SPINNER       | A-2295-1       | SPINNER ASSEMBLY               | 1        | Prop    |                          |
| SPINNER       | A-2295-1P      | SPINNER ASSEMBLY               | 1        | Prop    |                          |
| SPINNER       | A-2295-2       | SPINNER ASSEMBLY               | 1        | Prop    |                          |
| SPINNER       | A-2295-2P      | SPINNER ASSEMBLY               | 1        | Prop    |                          |
| SPINNER       | C-3575         | SPINNER ASSEMBLY               | 1        | Prop    | SEE NOTES                |
| SPINNER       | C-3575-P       | SPINNER ASSEMBLY               | 1        | Prop    | SEE NOTES                |
| SPIN MTG KIT  | A-2476-30      | SPINNER - MTG KIT              | 1        | Prop    |                          |
| SPIN MTG KIT  | A-2476-6       | SPINNER - MTG KIT              | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2429-4       | STUD, MOUNTING, 1/2-20         | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-C3YF-1RF-OH | O/H KIT                        | 1        | Prop    | For aftermarket use only |

# HARTZELL

## APPLICATION GUIDE

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CESSNA

**Model:** 180(), 185(), 210-210C, 210-5(A)  
**Trade Name:** Skywagon, Centurion  
**Aircraft T.C./STC:** SA02735CH

**Propeller Model:** PHC-C3YF-1RF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** F8068\*4  
**Prop Diameter:** 82" - 78"

**IDS No.:** 2905      **Rev.:** 3      **IC Date:** 07/16/2015  
**Modifier:** Vitatoe Aviation LLC  
**Engine Model:** O-470-U/TS, IO-470-E,-F,-S.. HP- 260 (230 O-470). RPM- 2625 (2400 (O-470))  
**Power:** 260 HP @ 2625 RPM  
**Placard/Restr:**  
**Notes:** Eligible on Texas Skyways STC SA09530SC (Cessna 180( )), standard IO-470 powered 185( ), and standard IO-470 powered 210 and 210-5 aircraft.

A-2476-6 Spinner Mounting Kit and C-3575(-P) Spinner Assembly may only be used together

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** 12.3 + - 0.2  
**Stud Protrusion** 1.450+/- .030

**Startlock Angle:**  
**Feather/High Angle:** 32.0 + - 1.0  
**Cwt Angle:**

### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>            | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>                        |
|------------------|--------------------|-------------------------------|-----------------|----------------|--|
| PROPELLER        | C3F01904           | PHC-C3YF-1RF/F8068[*4]/SM6    | 1               | A/C            |  |
| PROPELLER        | C3F01904KD         | PHC-C3YF-1RF/F8068[*4]/SM6    | 1               | A/C            |  |
| BLADE            | F8068*4            | PCP:BLADE UNIT, ALUM [6,16,5] | 3               | Prop           |  |
| SPINNER          | C-3575             | SPINNER ASSEMBLY              | 1               | Prop           | Eligible on 185( ) See notes           |
| SPINNER          | C-3575-P           | SPINNER ASSEMBLY              | 1               | Prop           | Eligible on 185( ) See notes           |
| SPIN MTG KIT     | A-2429-4           | STUD, MOUNTING, 1/2-20        | 6               | Prop           | Use w/E-7154-2R Hub Only               |
| SPIN MTG KIT     | A-2476-6           | SPINNER - MTG KIT             | 1               | Prop           |  |
| MTG BOLT/STUD    | A-2429-7           | STUD, MOUNTING, 1/2-20        | 6               | Prop           | Use w/E-7154-12 & E-7154-42R Hubs Only |
| OVERHAUL KIT     | PHC-C3YF-1RF*1     | O/H KIT W/O SLIMSERTS         | 1               | Prop           | For aftermarket use only               |
| OVERHAUL KIT     | PHC-C3YF-1RF-OH    | O/H KIT                       | 1               | Prop           | For aftermarket use only               |

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CESSNA

**Model:** 180(), 185(), 210-210C, 210-5(A)  
**Trade Name:** Skywagon, Centurion  
**Aircraft T.C./STC:** SA02821CH

**Propeller Model:** PHC-C3YF-1RF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** F8068\*4  
**Prop Diameter:** 82" - 78"

**IDS No.:** 2982      **Rev.:** 4      **IC Date:** 07/16/2015  
**Modifier:** Hartzell Propeller  
**Engine Model:** O-470-U/TS, IO-470-E,-F,-S.. HP- 260 (230 O-470). RPM- 2625 (2400 (O-470))  
**Power:** 260 HP @ 2625 RPM  
**Placard/Restr:**  
**Notes:** Eligible on Texas Skyways STC SA09530SC (Cessna 180( )), standard IO-470 powered 185( ), and standard IO-470 powered 210 and 210-5 aircraft.

A-2476-6 Spinner Mounting Kit and C-3575(-P) Spinner Assembly may only be used together

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** 12.3 + - 0.2  
**Stud Protrusion** 1.450+/- .030

**Startlock Angle:**  
**Feather/High Angle:** 32.0 + - 1.0  
**Cwt Angle:**

### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>            | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>                        |
|------------------|--------------------|-------------------------------|-----------------|----------------|--|
| PROPELLER        | C3F01904           | PHC-C3YF-1RF/F8068[*4]/SM6    | 1               | A/C            |  |
| PROPELLER        | C3F01904KD         | PHC-C3YF-1RF/F8068[*4]/SM6    | 1               | A/C            |  |
| BLADE            | F8068*4            | PCP:BLADE UNIT, ALUM [6,16,5] | 3               | Prop           |  |
| SPINNER          | C-3575             | SPINNER ASSEMBLY              | 1               | Prop           | Eligible on 185( ) See notes           |
| SPINNER          | C-3575-P           | SPINNER ASSEMBLY              | 1               | Prop           | Eligible on 185( ) See notes           |
| SPIN MTG KIT     | A-2476-6           | SPINNER - MTG KIT             | 1               | Prop           |  |
| MTG BOLT/STUD    | A-2429-4           | STUD, MOUNTING, 1/2-20        | 6               | Prop           | Use w/E-7154-2R Hub Only               |
| MTG BOLT/STUD    | A-2429-7           | STUD, MOUNTING, 1/2-20        | 6               | Prop           | Use w/E-7154-12 & E-7154-42R Hubs Only |
| OVERHAUL KIT     | PHC-C3YF-1RF*1     | O/H KIT W/O SLIMSERTS         | 1               | Prop           | For aftermarket use only               |
| OVERHAUL KIT     | PHC-C3YF-1RF-OH    | O/H KIT                       | 1               | Prop           | For aftermarket use only               |

# HARTZELL

## APPLICATION GUIDE 159

CESSNA

Model: 185  
 Trade Name: SKYWAGON  
 Aircraft T.C./STC: STC-SA00501AT  
 Propeller Model: PHC-C3YF-1RF  
 Propeller T.C.: P25EA  
 Blade Model(s): F8468A-6R  
 Prop Diameter: 80.0" TO 77.0"

**Prop Setup:**

Ref. Radius: 30  
 Reverse Angle: NA  
 Low Pitch Angle: 10.4 +-0.2  
 Stud Protrusion 1.450 +-0.030

**Non-HPI Items:**

Non-HPI Spinner:

**Hartzell Approved Items:**

| Item Type     | Item Number | Description                  | Quantity | Qty Per | Comments |
|---------------|-------------|------------------------------|----------|---------|----------|
| BLADE         | F8468A-6R   | PCP:BLADE UNIT, ALUM [1,1,1] | 3        | Prop    |          |
| SPINNER       | C-3535-1P   | SPINNER ASSEMBLY             | 1        | Prop    |          |
| SPIN MTG KIT  | A-2476-7    | SPINNER - MTG KIT            | 1        | Prop    |          |
| MTG BOLT/STUD | A-2429-4    | STUD, MOUNTING, 1/2-20       | 6        | Prop    |          |

IDS No.: 1580 Rev.: - DM Date: 10/07/1998

Modifier: DAVIS AVIATION SERVICES  
 Engine Model: IO-520-D  
 Power: 300 HP @ 2850 RPM  
 Placard/Restr:  
 Notes:

Startlock Angle: NA  
 Feather/High Angle: 31.0 +-1.0  
 Cwt Angle:

Non-HPI Governor:

CESSNA

Model: 185  
 Trade Name: SKYWAGON  
 Aircraft T.C./STC: STC-SA1443NM  
 Propeller Model: HC-C3YF-1RF  
 Propeller T.C.: P25EA  
 Blade Model(s): F9587C-15R  
 F9587C-17S

Prop Diameter:

**Prop Setup:**

Ref. Radius: 30  
 Reverse Angle: NA  
 Low Pitch Angle: 9.4 +-0.1  
 Stud Protrusion 1.450 +-0.030

**Non-HPI Items:**

Non-HPI Spinner:

**Hartzell Approved Items:**

| Item Type     | Item Number | Description              | Quantity | Qty Per | Comments |
|---------------|-------------|--------------------------|----------|---------|----------|
| BLADE         | F9587C-15R  | PCP:BLADE UNIT, ALUMINUM | 3        | Prop    |          |
| BLADE         | F9587C-17S  | PCP:BLADE UNIT, ALUMINUM | 3        | Prop    |          |
| SPINNER       | C-3535-1    | SPINNER ASSEMBLY         | 1        | Prop    |          |
| MTG BOLT/STUD | A-2429-4    | STUD, MOUNTING, 1/2-20   | 6        | Prop    |          |

IDS No.: 382 Rev.: 1 BC Date: 07/25/2014

Modifier: HARTZELL PROPELLER  
 Engine Model: IO-520-D  
 Power: 300 HP @ 2850 RPM  
 Placard/Restr:  
 Notes:

Startlock Angle: NA  
 Feather/High Angle: 25.5 +-1.0  
 Cwt Angle:

Non-HPI Governor:

# HARTZELL

## APPLICATION GUIDE 159

CESSNA

**Model:** 185, 185A, 185B, 185C, 185D, 185E, & S185F

**Trade Name:** SKYWAGON

**Aircraft T.C./STC:** SA2118NM

**Propeller Model:** HC-C3YR-1RF

**Propeller T.C.:** P25EA

**Blade Model(s):** F7854

**Prop Diameter:** 80"

### Prop Setup:

**Ref. Radius:** 30

**Reverse Angle:** NA

**Low Pitch Angle:** 12.5 +-0.1

**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

### Hartzell Approved Items:

**IDS No.:** 381      **Rev.:** 1      **IC Date:** 04/15/2021

**Modifier:** Turbotech, Inc.

**Engine Model:** TIO-540-(J2BD,J2B)

**Power:** 350 HP @ 2575 RPM

**Placard/Restr:**

**Notes:**

**Startlock Angle:** NA

**Feather/High Angle:** 27.6 +-1.0

**Cwt Angle:**

**Non-HPI Governor:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>         | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|----------------------------|-----------------|----------------|-----------------|
| BLADE            | F7854              | PCP:BLADE UNIT, ALUMINUM   | 3               | Prop           |                 |
| SPINNER          | C-4582             | SPINNER ASSEMBLY           | 1               | Prop           |                 |
| GOVERNOR         | F4-13              | GOVERNOR ASSEMBLY, F-4-( ) | 1               | Prop           |                 |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20     | 6               | Prop           |                 |

# HARTZELL

## APPLICATION GUIDE 159

CESSNA

IDS No.: 2906 Rev.: 2 IC Date: 07/16/2015

Model: ( )185( )  
 Trade Name: Skywagon  
 Aircraft T.C./STC: SA02735CH  
 Propeller Model: HC-C3YF-1RF  
 Propeller T.C.: P25EA  
 Blade Model(s): F7693DF+2\*1  
 Prop Diameter: 80-78

Modifier: Vitatoc Aviation LLC  
 Engine Model: IO-550-D  
 Power: 300 HP @ 2700 RPM  
 Placard/Restr:

Notes: This Installation Data Sheet is limited to aircraft that have been converted by Wipaire STC SA1522GL or Davis Aviation STC SA2933SO A-2476-6 Spinner Mounting Kit and C-3575(-P) Spinner Assembly may only be used together

**Prop Setup:**

Ref. Radius: 30  
 Reverse Angle:  
 Low Pitch Angle: 12.8 + - 0.1  
 Stud Protrusion 1.450 + - .030 In.

Startlock Angle:  
 Feather/High Angle: 32.0 + - 1.0  
 Cwt Angle:

**Non-HPI Items:**

Non-HPI Spinner:

Non-HPI Governor:

**Hartzell Approved Items:**

| Item Type     | Item Number    | Description                    | Quantity | Qty Per | Comments  |
|---------------|----------------|--------------------------------|----------|---------|---|
| PROPELLER     | C3F06101       | HC-C3YF-1RF/F7693DF+2*[1]/SM6  | 1        | A/C     |   |
| PROPELLER     | C3F06101KD     | HC-C3YF-1RF/F7693DF+2*[1]/SM6  | 1        | A/C     |   |
| BLADE         | F7693DF+2*1    | PCP:BLADE UNIT, ALUM [6,16,11] | 3        | Prop    |   |
| SPINNER       | C-3535         | SPINNER ASSEMBLY               | 1        | Prop    | Use on STC SA2933SO   |
| SPINNER       | C-3535P        | SPINNER ASSEMBLY               | 1        | Prop    | Use on STC SA2933SO   |
| SPINNER       | C-3575         | SPINNER ASSEMBLY               | 1        | Prop    | Use on STC SA1522GL / SA2933SO See notes                                |
| SPINNER       | C-3575-P       | SPINNER ASSEMBLY               | 1        | Prop    | Use on STC SA1522GL / SA2933SO Use on STC SA1522GL / SA2933SO See notes |
| SPIN MTG KIT  | A-2476-30      | SPINNER - MTG KIT              | 1        | Prop    |   |
| SPIN MTG KIT  | A-2476-6       | SPINNER - MTG KIT              | 1        | Prop    |   |
| MTG BOLT/STUD | A-2429-4       | STUD, MOUNTING, 1/2-20         | 6        | Prop    |   |
| OVERHAUL KIT  | HC-C3YF-1RF-OH | O/H KIT                        | 1        | Prop    | For aftermarket use only  |

# HARTZELL

## APPLICATION GUIDE 159

CESSNA

**Model:** 185, A185  
**Trade Name:** Skywagon  
**Aircraft T.C./STC:** SA02735CH  
**Propeller Model:** HC-C3YF-1RF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** F8068\*4  
**Prop Diameter:** 82" - 78"

**IDS No.:** 2858      **Rev.:** 3      **IC Date:** 01/03/2017

**Modifier:** Vitatoo Aviation LLC  
**Engine Model:** IO-550-D  
**Power:** 300 HP @ 2700 RPM  
**Placard/Restr:**

**Notes:** Eligible on Wipaire STC SA1522GL, or Davis Aviation STC SA2933SO (185/A185).  
 C-3575-P...Eligible on Wipaire STC SA1522GL, or Davis Aviation STC SA2933SO (185/A185).      C-3535-P...Eligible on Davis Aviation STC SA2933SO (185/A185). A-2476-6 Spinner Mounting Kit and C-3575(-P) Spinner Assembly may only be used together

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** 13.0+-.2  
**Stud Protrusion** 1.450 +/- .030

**Startlock Angle:**  
**Feather/High Angle:** 32.0+-.1.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>            | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|-------------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | C3F07101           | HC-C3YF-1RF/F8068*[4]/SM6     | 1               | A/C            |                          |
| PROPELLER        | C3F07101KD         | HC-C3YF-1RF/F8068*[4]/SM6     | 1               | A/C            |                          |
| BLADE            | F8068*4            | PCP:BLADE UNIT, ALUM [6,16,5] | 3               | Prop           |                          |
| SPINNER          | C-3535             | SPINNER ASSEMBLY              | 1               | Prop           | See Notes                |
| SPINNER          | C-3535P            | SPINNER ASSEMBLY              | 1               | Prop           | See Notes                |
| SPINNER          | C-3575             | SPINNER ASSEMBLY              | 1               | Prop           | See Notes                |
| SPINNER          | C-3575-P           | SPINNER ASSEMBLY              | 1               | Prop           | See Notes                |
| SPIN MTG KIT     | A-2476-30          | SPINNER - MTG KIT             | 1               | Prop           |                          |
| SPIN MTG KIT     | A-2476-6           | SPINNER - MTG KIT             | 1               | Prop           |                          |
| MTG BOLT/STUD    | A-2429-4           | STUD, MOUNTING, 1/2-20        | 6               | Prop           |                          |
| OVERHAUL KIT     | HC-C3YF-1RF-OH     | O/H KIT                       | 1               | Prop           | For aftermarket use only |



# HARTZELL

## APPLICATION GUIDE 159

Cessna

**Model:** 185, A185  
**Trade Name:** Skywagon  
**Aircraft T.C./STC:** SA02821CH  
**Propeller Model:** HC-C3YF-1RF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** F8068\*4  
**Prop Diameter:** 82" - 78"

**IDS No.:** 2972      **Rev.:** 4      **IC Date:** 01/03/2017

**Modifier:** Hartzell Propeller  
**Engine Model:** IO-550-D  
**Power:** 300 HP @ 2700 RPM  
**Placard/Restr:**

**Notes:** Eligible on Wipaire STC SA1522GL, or Davis Aviation STC SA2933SO (185/A185).  
 C-3575-P...Eligible on Wipaire STC SA1522GL, or Davis Aviation STC SA2933SO (185/A185).      C-3535-P...Eligible on Davis Aviation STC SA2933SO (185/A185).      A-2476-6 Spinner Mounting Kit and C-3575(-P) Spinner Assembly may only be used together

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** 13.0+-.2  
**Stud Protrusion** 1.450 +/- .030

**Startlock Angle:**  
**Feather/High Angle:** 32.0+-.1.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>            | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|-------------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | C3F07101           | HC-C3YF-1RF/F8068*[4]/SM6     | 1               | A/C            |                          |
| PROPELLER        | C3F07101KD         | HC-C3YF-1RF/F8068*[4]/SM6     | 1               | A/C            |                          |
| BLADE            | F8068*4            | PCP:BLADE UNIT, ALUM [6,16,5] | 3               | Prop           |                          |
| SPINNER          | C-3535             | SPINNER ASSEMBLY              | 1               | Prop           | See Notes                |
| SPINNER          | C-3535P            | SPINNER ASSEMBLY              | 1               | Prop           | See Notes                |
| SPINNER          | C-3575             | SPINNER ASSEMBLY              | 1               | Prop           | See Notes                |
| SPINNER          | C-3575-P           | SPINNER ASSEMBLY              | 1               | Prop           | See Notes                |
| SPIN MTG KIT     | A-2476-30          | SPINNER - MTG KIT             | 1               | Prop           |                          |
| SPIN MTG KIT     | A-2476-6           | SPINNER - MTG KIT             | 1               | Prop           |                          |
| MTG BOLT/STUD    | A-2429-4           | STUD, MOUNTING, 1/2-20        | 6               | Prop           |                          |
| OVERHAUL KIT     | HC-C3YF-1RF-OH     | O/H KIT                       | 1               | Prop           | For aftermarket use only |

# HARTZELL

## APPLICATION GUIDE 159

CESSNA

IDS No.: 2732 Rev.: 3 IC Date: 07/16/2015

**Model:** A185E, A185F  
**Trade Name:** SKYWAGON  
**Aircraft T.C./STC:** SA02528CH-D  
**Propeller Model:** PHC-C3YF-1RF  
**Propeller T.C.:** P25EA

**Modifier:** HARTZELL PROPELLER  
**Engine Model:** IO-520-D  
**Power:** 285 HP @ 2700 RPM  
**Placard/Restr:** Max RPM stop on propeller governor must be set at 2700 RPM. For propellers with 86"-85" diameters - Continuous operation is prohibited above 26" manifold pressure between 2250-2450 RPM.

**Blade Model(s):** F8468A-2R\*1  
 F8468AR\*1

**Notes:**

**Prop Diameter:** 86" - 82"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** 10.3 +-0.2  
**Stud Protrusion** 1.450 +-0.030

**Startlock Angle:**  
**Feather/High Angle:** 30.0 +-1.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type     | Item Number     | Description                     | Quantity | Qty Per | Comments                                   |
|---------------|-----------------|---------------------------------|----------|---------|--|
| PROPELLER     | C3F00840        | PHC-C3YF-1RF/F8468AR[*1]/SM30   | 0        |         |  |
| PROPELLER     | C3F00840KD      | PHC-C3YF-1RF/F8468AR[*1]/SM30   | 0        |         |  |
| PROPELLER     | C3F00870        | PHC-C3YF-1RF/F8468A-2R[*1]/SM30 | 0        |         |  |
| PROPELLER     | C3F00870KD      | PHC-C3YF-1RF/F8468A-2R[*1]/SM30 | 0        |         |  |
| BLADE         | F8468A-2R*1     | PCP:BLADE UNIT, ALUM [6,1,1]    | 3        | Prop    |  |
| BLADE         | F8468AR*1       | PCP:BLADE UNIT, ALUM [3,1,1]    | 3        | Prop    |  |
| SPINNER       | C-3575          | SPINNER ASSEMBLY                | 1        | Prop    |  |
| SPINNER       | C-3575-P        | SPINNER ASSEMBLY                | 1        | Prop    |  |
| SPIN MTG KIT  | A-2476-30       | SPINNER - MTG KIT               | 1        | Prop    |  |
| MTG BOLT/STUD | A-2429-4        | STUD, MOUNTING, 1/2-20          | 6        | Prop    | Use w/E-7154-2R Hub Only                   |
| MTG BOLT/STUD | A-2429-7        | STUD, MOUNTING, 1/2-20          | 6        | Prop    | Use with E-7154-12R & E-7154-42R hubs only |
| OVERHAUL KIT  | PHC-C3YF-1RF*1  | O/H KIT W/O SLIMSERTS           | 1        | Prop    | For aftermarket use only                   |
| OVERHAUL KIT  | PHC-C3YF-1RF-OH | O/H KIT                         | 1        | Prop    | For aftermarket use only                   |

# HARTZELL

## APPLICATION GUIDE

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CESSNA

IDS No.: 1091 Rev.: 3 IC Date: 03/15/2016

**Model:** 185, 185(A-E), A185(E,F)(AG)

**Trade Name:** SKYWAGON

**Aircraft T.C./STC:** STC-SA00501AT

**Propeller Model:** PHC-C3YF-1RF

**Propeller T.C.:** P25EA

**Blade Model(s):** F8468A-6R

**Prop Diameter:** 80.0" TO 77.0"

**Prop Setup:**

**Ref. Radius:** 30

**Reverse Angle:** NA

**Low Pitch Angle:** 10.4 +-0.2

**Stud Protrusion** 1.450 +-0.030

**Modifier:** DAVIS AVIATION SERVICES

**Engine Model:** IO-520-D

**Power:** 285 HP @ 2700 RPM

**Placard/Restr:**

**Notes:**

**Startlock Angle:** NA

**Feather/High Angle:** 31.0 +-1.0

**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>           | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>                            |
|------------------|--------------------|------------------------------|-----------------|----------------|--|
| PROPELLER        | C3F00122           | PHC-C3YF-1RF/F8468A-6R/SM7   | 1               | A/C            |  |
| PROPELLER        | C3F00122KD         | PHC-C3YF-1RF/F8468A-6R/SM7   | 1               | A/C            |  |
| BLADE            | F8468A-6R          | PCP:BLADE UNIT, ALUM [1,1,1] | 3               | Prop           |  |
| SPINNER          | C-3535-1P          | SPINNER ASSEMBLY             | 1               | Prop           |  |
| SPIN MTG KIT     | A-2476-7           | SPINNER - MTG KIT            | 1               | Prop           |  |
| MTG BOLT/STUD    | A-2429-4           | STUD, MOUNTING, 1/2-20       | 6               | Prop           | Use w/E-7154-2R Hub Only                   |
| MTG BOLT/STUD    | A-2429-7           | STUD, MOUNTING, 1/2-20       | 6               | Prop           | Use with E-7154-12R & E-7154-42R hubs only |
| OVERHAUL KIT     | PHC-C3YF-1RF*1     | O/H KIT W/O SLIMSERTS        | 1               | Prop           | For aftermarket use only                   |
| OVERHAUL KIT     | PHC-C3YF-1RF-OH    | O/H KIT                      | 1               | Prop           | For aftermarket use only                   |

# HARTZELL

## APPLICATION GUIDE

159

CESSNA

IDS No.: 1093 Rev.: 2 IC Date: 07/16/2015

**Model:** 185, 185(A-E), A185(E,F)(AG)

**Trade Name:** SKYWAGON

**Aircraft T.C./STC:** STC-SA00501AT

**Propeller Model:** PHC-C3YF-1RF

**Propeller T.C.:** P25EA

**Modifier:** DAVIS AVIATION SERVICES

**Engine Model:** IO-520-D

**Power:** 285 HP @ 2700 RPM

**Placard/Restr:** Do not exceed 20 in. manifold pressure below 2200 RPM.

**Blade Model(s):** F7691

**Prop Diameter:** 78.0" TO 77.0"

**Notes:**

**Prop Setup:**

**Ref. Radius:** 30

**Reverse Angle:** NA

**Low Pitch Angle:** 11.8 +-0.1

**Stud Protrusion** 1.450 +-0.030

**Startlock Angle:** NA

**Feather/High Angle:** 31.0 +-1.0

**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>           | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>                            |
|------------------|--------------------|------------------------------|-----------------|----------------|--|
| PROPELLER        | C3F00026           | PHC-C3YF-1RF/F7691/SM7       | 1               | A/C            |  |
| BLADE            | F7691              | PCP:BLADE UNIT, ALUM [1,1,5] | 3               | Prop           |  |
| SPINNER          | C-3535-1P          | SPINNER ASSEMBLY             | 1               | Prop           |  |
| SPIN MTG KIT     | A-2476-7           | SPINNER - MTG KIT            | 1               | Prop           |  |
| MTG BOLT/STUD    | A-2429-4           | STUD, MOUNTING, 1/2-20       | 6               | Prop           | USE WITH E-7154-2R HUB ONLY                |
| MTG BOLT/STUD    | A-2429-7           | STUD, MOUNTING, 1/2-20       | 6               | Prop           | Use with E-7154-12R & E-7154-42R hubs only |
| OVERHAUL KIT     | PHC-C3YF-1RF*1     | O/H KIT W/O SLIMSERTS        | 1               | Prop           | For aftermarket use only                   |
| OVERHAUL KIT     | PHC-C3YF-1RF-OH    | O/H KIT                      | 1               | Prop           | For aftermarket use only                   |

# HARTZELL

## APPLICATION GUIDE

159

CESSNA

**Model:** 185, 185(A-E), A185(E,F)(AG)  
**Trade Name:** SKYWAGON  
**Aircraft T.C./STC:** STC-SA2933SO  
**Propeller Model:** PHC-C3YF-1RF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** F8468A-6R  
**Prop Diameter:** 80.0" TO 77.0"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 11.7 +-0.1  
**Stud Protrusion** 1.450 +-0.030

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number     | Description                  | Quantity | Qty Per | Comments                                   |
|---------------|-----------------|------------------------------|----------|---------|--|
| PROPELLER     | C3F00123        | PHC-C3YF-1RF/F8468A-6R/SM7   | 1        | A/C     |  |
| PROPELLER     | C3F00123KD      | PHC-C3YF-1RF/F8468A-6R/SM7   | 1        | A/C     |  |
| BLADE         | F8468A-6R       | PCP:BLADE UNIT, ALUM [1,1,1] | 3        | Prop    |  |
| SPINNER       | C-3535-1P       | SPINNER ASSEMBLY             | 1        | Prop    |  |
| SPIN MTG KIT  | A-2476-7        | SPINNER - MTG KIT            | 1        | Prop    |  |
| MTG BOLT/STUD | A-2429-4        | STUD, MOUNTING, 1/2-20       | 6        | Prop    | Use w/E-7154-2R Hub Only                   |
| MTG BOLT/STUD | A-2429-7        | STUD, MOUNTING, 1/2-20       | 6        | Prop    | Use with E-7154-12R & E-7154-42R hubs only |
| OVERHAUL KIT  | PHC-C3YF-1RF*1  | O/H KIT W/O SLIMSERTS        | 1        | Prop    | For aftermarket use only                   |
| OVERHAUL KIT  | PHC-C3YF-1RF-OH | O/H KIT                      | 1        | Prop    | For aftermarket use only                   |

**IDS No.:** 1090      **Rev.:** 2      **IC Date:** 07/16/2015

**Modifier:** DAVIS AVIATION SERVICES  
**Engine Model:** IO-550-D  
**Power:** 300 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 31.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

CESSNA

**Model:** 185, 185(A-E), A185(E,F)(AG)  
**Trade Name:** SKYWAGON  
**Aircraft T.C./STC:** STC-SA2933SO  
**Propeller Model:** PHC-C3YF-1RF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** F7691  
**Prop Diameter:** 78.0" TO 77.0"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.4 +-0.1  
**Stud Protrusion** 1.450 +-0.030

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number     | Description                  | Quantity | Qty Per | Comments                 |
|---------------|-----------------|------------------------------|----------|---------|--------------------------|
| PROPELLER     | C3F00027        | PHC-C3YF-1RF/F7691/SM7       | 1        | A/C     |                          |
| BLADE         | F7691           | PCP:BLADE UNIT, ALUM [1,1,5] | 3        | Prop    |                          |
| SPINNER       | C-3535-1P       | SPINNER ASSEMBLY             | 1        | Prop    |                          |
| SPIN MTG KIT  | A-2476-7        | SPINNER - MTG KIT            | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2429-4        | STUD, MOUNTING, 1/2-20       | 6        | Prop    |                          |
| OVERHAUL KIT  | PHC-C3YF-1RF*1  | O/H KIT W/O SLIMSERTS        | 1        | Prop    | For aftermarket use only |
| OVERHAUL KIT  | PHC-C3YF-1RF-OH | O/H KIT                      | 1        | Prop    | For aftermarket use only |

**IDS No.:** 1478      **Rev.:** 1      **IC Date:** 07/16/2015

**Modifier:** DAVIS AVIATION SERVICES  
**Engine Model:** IO-550-D  
**Power:** 300 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 31.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

# HARTZELL

## APPLICATION GUIDE 159

CESSNA

**Model:** 185, 185(A-E), A185(E,F),(AG)  
**Trade Name:** SKYWAGON  
**Aircraft T.C./STC:** STC-SA2933SO  
**Propeller Model:** HC-C3YF-1RF  
**Propeller T.C.:** P25EA

**Blade Model(s):** F9587C-15S  
**Prop Diameter:** 82.0" TO 80.0"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 10.8 +-0.2  
**Stud Protrusion** 1.450 +-0.030

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 380      **Rev.:** -      **DM Date:** 11/17/1997

**Modifier:** DAVIS AVIATION SERVICES

**Engine Model:** IO-550-D

**Power:** 300 HP @ 2700 RPM

**Placard/Restr:** Continuous operation is prohibited between 2000 and 2300 RPM.

**Notes:**

**Startlock Angle:** NA

**Feather/High Angle:** 30.5 +-1.0

**Cwt Angle:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>       | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|--------------------------|-----------------|----------------|-----------------|
| BLADE            | F9587C-15S         | PCP:BLADE UNIT, ALUMINUM | 3               | Prop           |                 |
| SPINNER          | C-3535-1P          | SPINNER ASSEMBLY         | 1               | Prop           |                 |
| SPIN MTG KIT     | A-2476-7           | SPINNER - MTG KIT        | 1               | Prop           |                 |
| MTG BOLT/STUD    | A-2429-4           | STUD, MOUNTING, 1/2-20   | 6               | Prop           |                 |

CESSNA

**Model:** 185E, A185E, A185F  
**Trade Name:** SKYWAGON  
**Aircraft T.C./STC:** STC-SA587W  
**Propeller Model:** HC-C3YF-1RF  
**Propeller T.C.:**

**Blade Model(s):** F9587C-15S  
**Prop Diameter:** 82"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 9.4 +-0.1  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 383      **Rev.:** -      **DM Date:** 10/01/1992

**Modifier:** ALASKA PROPELLER

**Engine Model:** IO-520-D

**Power:** 285 HP @ 2700 RPM

**Placard/Restr:**

**Notes:**

**Startlock Angle:** NA

**Feather/High Angle:** 25.5 +-1.0

**Cwt Angle:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>       | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|--------------------------|-----------------|----------------|-----------------|
| BLADE            | F9587C-15S         | PCP:BLADE UNIT, ALUMINUM | 3               | Prop           |                 |
| SPINNER          | C-3535-1           | SPINNER ASSEMBLY         | 1               | Prop           |                 |

# HARTZELL

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CESSNA

IDS No.: 1263      Rev.: -      DM Date: 04/16/1996

**Model:** A185E, A185F  
**Trade Name:** SKYWAGON  
**Aircraft T.C./STC:** STC-SA1443NM  
**Propeller Model:** HC-C3YF-1RF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** F9587C-15R  
                           F9587C-17S  
**Prop Diameter:** 82.0" TO 80.0"

**Modifier:** HARTZELL PROPELLER  
**Engine Model:** IO-520-D  
**Power:** 285 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 9.4 +-0.1  
**Stud Protrusion** 1.450 +-0.030

**Startlock Angle:** NA  
**Feather/High Angle:** 25.5 +-1.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>       | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|--------------------------|-----------------|----------------|-----------------|
| BLADE            | F9587C-15R         | PCP:BLADE UNIT, ALUMINUM | 3               | Prop           |                 |
| BLADE            | F9587C-17S         | PCP:BLADE UNIT, ALUMINUM | 3               | Prop           |                 |
| SPINNER          | C-3535-1           | SPINNER ASSEMBLY         | 1               | Prop           |                 |
| SPINNER          | C-3535-1P          | SPINNER ASSEMBLY         | 1               | Prop           |                 |
| SPINNER          | C-3575             | SPINNER ASSEMBLY         | 1               | Prop           |                 |
| SPINNER          | C-3575-P           | SPINNER ASSEMBLY         | 1               | Prop           |                 |
| SPIN MTG KIT     | A-2476-7           | SPINNER - MTG KIT        | 1               | Prop           |                 |
| MTG BOLT/STUD    | A-2429-4           | STUD, MOUNTING, 1/2-20   | 6               | Prop           |                 |

# HARTZELL

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**CESSNA**

**IDS No.:** 1095      **Rev.:** 3      **IC Date:** 07/16/2015

**Model:** A185E, A185F  
**Trade Name:** SKYWAGON  
**Aircraft T.C./STC:** STC-SA1443NM  
**Propeller Model:** PHC-C3YF-1RF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** F8468A-6R  
                           F8468A-6R\*1  
                           F8468A-8R  
                           F8468A-8R\*1

**Modifier:** HARTZELL PROPELLER  
**Engine Model:** IO-520-D  
**Power:** 300 HP @ 2850 RPM  
**Placard/Restr:**  
**Notes:** HC-C3YF-1RF/F8468A-8R also approved.

**Prop Diameter:** 80.0" TO 77.0"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 10.0 +-0.2  
**Stud Protrusion** 1.450 +-0.030

**Startlock Angle:** NA  
**Feather/High Angle:** 32.0 +-1.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>           | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>                            |
|------------------|--------------------|------------------------------|-----------------|----------------|--|
| PROPELLER        | C3F00119           | PHC-C3YF-1RF/F8468A-6R/SM30  | 1               | A/C            |  |
| PROPELLER        | C3F00119KD         | PHC-C3YF-1RF/F8468A-6R/SM30  | 1               | A/C            |  |
| PROPELLER        | C3F00119SKDTP      | C3F00119/SM30/C-3575-P       | 1               | A/C            |  |
| PROPELLER        | C3F00119STP        | C3F00119/SM30/C-3575-P       | 1               | A/C            |  |
| PROPELLER        | C3F00131           | PHC-C3YF-1RF/F8468A-8R/SM30  | 1               | A/C            |  |
| PROPELLER        | C3F00131KD         | PHC-C3YF-1RF/F8468A-8R/SM30  | 1               | A/C            |  |
| PROPELLER        | C3F00131SKDTP*1    | C3F00131/SM30/C-3575-P       | 1               | A/C            |  |
| PROPELLER        | C3F00131STP*1      | C3F00131/SM30/C-3575-P       | 1               | A/C            |  |
| BLADE            | F8468A-6R          | PCP:BLADE UNIT, ALUM [1,1,1] | 3               | Prop           |  |
| BLADE            | F8468A-6R*1        | PCP:BLADE UNIT, ALUM [3,1,1] | 3               | Prop           |  |
| BLADE            | F8468A-8R          | PCP:BLADE UNIT, ALUM [1,1,1] | 3               | Prop           |  |
| BLADE            | F8468A-8R*1        | IDS ITEM, BLADE, [3,1,1]     | 3               | Prop           |  |
| SPINNER          | C-3535-1           | SPINNER ASSEMBLY             | 1               | Prop           |  |
| SPINNER          | C-3535-1P          | SPINNER ASSEMBLY             | 1               | Prop           |  |
| SPINNER          | C-3575             | SPINNER ASSEMBLY             | 1               | Prop           |  |
| SPINNER          | C-3575-P           | SPINNER ASSEMBLY             | 1               | Prop           |  |
| SPIN MTG KIT     | A-2476-30          | SPINNER - MTG KIT            | 1               | Prop           |  |
| MTG BOLT/STUD    | A-2429-4           | STUD, MOUNTING, 1/2-20       | 6               | Prop           | Use w/E-7154-2R Hub Only                   |
| MTG BOLT/STUD    | A-2429-7           | STUD, MOUNTING, 1/2-20       | 6               | Prop           | Use with E-7154-12R & E-7154-42R hubs only |
| OVERHAUL KIT     | PHC-C3YF-1RF*1     | O/H KIT W/O SLIMSERTS        | 1               | Prop           | For aftermarket use only                   |
| OVERHAUL KIT     | PHC-C3YF-1RF-OH    | O/H KIT                      | 1               | Prop           | For aftermarket use only                   |



# HARTZELL

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CESSNA

IDS No.: 384 Rev.: 1 D Date: 01/07/2011

**Model:** A185E, A185F (SEAPLANES ONLY)

**Trade Name:** SKYWAGON

**Aircraft T.C./STC:** STC-SA930SW

**Propeller Model:** HC-92WF-3

**Propeller T.C.:** P16EA

**Blade Model(s):** W8447  
W8447N

**Prop Diameter:** 84" TO 80"

### Prop Setup:

**Ref. Radius:** 30

**Reverse Angle:** NA

**Low Pitch Angle:** UNKNOWN

**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**Modifier:** AEROSTOL COMPANY

**Engine Model:** IO-520-D

**Power:** HP @ 2800 RPM

**Placard/Restr:**

**Notes:**

**Startlock Angle:** NA

**Feather/High Angle:** UNKNOWN

**Cwt Angle:** Positive

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u>             | <u>Item Number</u> | <u>Description</u>            | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>    |
|------------------------------|--------------------|-------------------------------|-----------------|----------------|--------------------|
| BLADE                        | W8447              | BLADE UNIT, ALUMINUM          | 2               | Prop           | REPLACED BY W8447N |
| BLADE                        | W8447N             | PCP:BLADE UNIT, ALUMINUM      | 2               | Prop           |                    |
| SPINNER                      | 837-11             | SPINNER ASSEMBLY              | 1               | Prop           |                    |
| SPINNER                      | 837-18             | SPINNER ASSEMBLY              | 1               | Prop           |                    |
| COUNTERWEIGHT SLUG A-619-5   |                    | SLUG, COUNTERWEIGHT           | 1               | Blade          |                    |
| COUNTERWEIGHT SLUG A-890-8   |                    | PCP:SLUG, COUNTERWEIGHT       | 1               | Blade          |                    |
| COUNTERWEIGHT SLUG B-3384-23 |                    | BOLT, 1/4-28, HEX HEAD        | 2               | Blade          |                    |
| COUNTERWEIGHT SLUG B-3808-4  |                    | NUT,HEX,SELF-LOCKING          | 2               | Blade          |                    |
| MTG BOLT/STUD                | A-1328-1           | BOLT,MOUNTING,1/2-20,12 POINT | 6               | Prop           | PRIMARY            |

# HARTZELL

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CESSNA

IDS No.: 1097 Rev.: 3 IC Date: 07/16/2015

**Model:** A188, A188A, A188B  
**Trade Name:** AG WAGON  
**Aircraft T.C./STC:** STC-SA00470AT  
**Propeller Model:** PHC-C3YF-1RF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** F8468A-6R  
 F8468A-6R\*1  
**Prop Diameter:** 80.0" TO 77.0"

**Modifier:** HARTZELL PROPELLER  
**Engine Model:** IO-520-D  
**Power:** 285 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 10.4 +-0.2  
**Stud Protrusion** 1.450 +-0.030

**Startlock Angle:** NA  
**Feather/High Angle:** 31.0 +-1.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type     | Item Number     | Description                  | Quantity | Qty Per | Comments                                   |
|---------------|-----------------|------------------------------|----------|---------|--|
| PROPELLER     | C3F00129        | PHC-C3YF-1RF/F8468A-6R/SM6   | 1        | A/C     |  |
| PROPELLER     | C3F00129KD      | PHC-C3YF-1RF/F8468A-6R/SM6   | 1        | A/C     |  |
| PROPELLER     | C3F00129SKDTP   | C3F00129/SM6/C-3535-1P       | 1        | A/C     |  |
| PROPELLER     | C3F00129STP     | C3F00129/SM6/C-3535-1P       | 1        | A/C     |  |
| BLADE         | F8468A-6R       | PCP:BLADE UNIT, ALUM [1,1,1] | 3        | Prop    |  |
| BLADE         | F8468A-6R*1     | PCP:BLADE UNIT, ALUM [3,1,1] | 3        | Prop    |  |
| SPINNER       | C-3535-1P       | SPINNER ASSEMBLY             | 1        | Prop    |  |
| SPIN MTG KIT  | A-2476-6        | SPINNER - MTG KIT            | 1        | Prop    |  |
| MTG BOLT/STUD | A-2429-4        | STUD, MOUNTING, 1/2-20       | 6        | Prop    | Use w/E-7154-2R Hub Only                   |
| MTG BOLT/STUD | A-2429-7        | STUD, MOUNTING, 1/2-20       | 6        | Prop    | Use with E-7154-12R & E-7154-42R hubs only |
| OVERHAUL KIT  | PHC-C3YF-1RF*1  | O/H KIT W/O SLIMserts        | 1        | Prop    | For aftermarket use only                   |
| OVERHAUL KIT  | PHC-C3YF-1RF-OH | O/H KIT                      | 1        | Prop    | For aftermarket use only                   |

# HARTZELL

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CESSNA

**Model:** A188, A188A, A188B  
**Trade Name:** AG WAGON  
**Aircraft T.C./STC:** STC-SA00470AT  
**Propeller Model:** PHC-C3YF-1RF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** F7691  
**Prop Diameter:** 78.0" TO 77.0"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 11.8 +-0.1  
**Stud Protrusion** 1.450 +-0.030

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 1100      **Rev.:** 1      **BC Date:** 07/25/2014

**Modifier:** HARTZELL PROPELLER  
**Engine Model:** IO-520-D  
**Power:** 285 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 31.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>           | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|------------------------------|-----------------|----------------|-----------------|
| BLADE            | F7691              | PCP:BLADE UNIT, ALUM [1,1,5] | 3               | Prop           |                 |
| SPINNER          | C-3535-1P          | SPINNER ASSEMBLY             | 1               | Prop           |                 |
| SPIN MTG KIT     | A-2476-7           | SPINNER - MTG KIT            | 1               | Prop           |                 |
| MTG BOLT/STUD    | A-2429-4           | STUD, MOUNTING, 1/2-20       | 6               | Prop           |                 |

CESSNA

**Model:** A188, A188A, A188B  
**Trade Name:** AG WAGON  
**Aircraft T.C./STC:** STC-SA895SO  
**Propeller Model:** HC-C3YF-1RF  
**Propeller T.C.:**  
**Blade Model(s):** F9587C-17S  
**Prop Diameter:** 82" TO 80"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 9.4 +-0.1  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 390      **Rev.:** -      **DM Date:** 10/01/1992

**Modifier:** HARTZELL PROPELLER  
**Engine Model:** IO-520-D  
**Power:** 285 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 25.5 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>       | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|--------------------------|-----------------|----------------|-----------------|
| BLADE            | F9587C-17S         | PCP:BLADE UNIT, ALUMINUM | 3               | Prop           |                 |
| SPINNER          | C-3535-1           | SPINNER ASSEMBLY         | 1               | Prop           |                 |

# HARTZELL

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**CESSNA**

**Model:** A188, A188A, A188B  
**Trade Name:** AG WAGON  
**Aircraft T.C./STC:** STC-SA3243SO  
**Propeller Model:** HC-C3YF-1RF  
**Propeller T.C.:** P25EA

**Blade Model(s):** F9587C-15S  
**Prop Diameter:** 82.0" TO 80.0"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 10.8 +-0.2  
**Stud Protrusion** 1.450 +-0.030

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number    | Description                | Quantity | Qty Per | Comments                 |
|---------------|----------------|----------------------------|----------|---------|--------------------------|
| PROPELLER     | C3F00055       | HC-C3YF-1RF/F9587C-15S/SM7 | 1        | A/C     |                          |
| PROPELLER     | C3F00055KD     | HC-C3YF-1RF/F9587C-15S/SM7 | 1        | A/C     |                          |
| BLADE         | F9587C-15S     | PCP:BLADE UNIT, ALUMINUM   | 3        | Prop    |                          |
| SPINNER       | C-3535-1       | SPINNER ASSEMBLY           | 1        | Prop    |                          |
| SPINNER       | C-3535-1P      | SPINNER ASSEMBLY           | 1        | Prop    |                          |
| SPIN MTG KIT  | A-2476-7       | SPINNER - MTG KIT          | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2429-4       | STUD, MOUNTING, 1/2-20     | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-C3YF-1RF-OH | O/H KIT                    | 1        | Prop    | For aftermarket use only |

**IDS No.:** 385      **Rev.:** 2      **IC Date:** 09/20/2019

**Modifier:** DAVIS AVIATION SERVICES

**Engine Model:** IO-550-D

**Power:** 300 HP @ 2700 RPM

**Placard/Restr:** Continuous operation is prohibited between 2000 and 2300 RPM.

**Notes:**

**Startlock Angle:** NA

**Feather/High Angle:** 30.5 +-1.0

**Cwt Angle:**

**Non-HPI Governor:**

**CESSNA**

**Model:** A188, A188A, A188B  
**Trade Name:** AG WAGON  
**Aircraft T.C./STC:** STC-SA3243SO  
**Propeller Model:** PHC-C3YF-1RF  
**Propeller T.C.:** P25EA

**Blade Model(s):** F8468A-6R  
**Prop Diameter:** 80.0" TO 77.0"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 11.7 +-0.1  
**Stud Protrusion** 1.450 +-0.030

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number     | Description                  | Quantity | Qty Per | Comments                                   |
|---------------|-----------------|------------------------------|----------|---------|--|
| PROPELLER     | C3F00134        | PHC-C3YF-1RF/F8468A-6R/SM7   | 1        | A/C     |  |
| BLADE         | F8468A-6R       | PCP:BLADE UNIT, ALUM [1,1,1] | 3        | Prop    |  |
| SPINNER       | C-3535-1P       | SPINNER ASSEMBLY             | 1        | Prop    |  |
| SPIN MTG KIT  | A-2476-7        | SPINNER - MTG KIT            | 1        | Prop    |  |
| MTG BOLT/STUD | A-2429-4        | STUD, MOUNTING, 1/2-20       | 6        | Prop    | USE WITH E-7154-2R HUB ONLY                |
| MTG BOLT/STUD | A-2429-7        | STUD, MOUNTING, 1/2-20       | 6        | Prop    | Use with E-7154-12R & E-7154-42R hubs only |
| OVERHAUL KIT  | PHC-C3YF-1RF*1  | O/H KIT W/O SLIMSERTS        | 1        | Prop    | For aftermarket use only                   |
| OVERHAUL KIT  | PHC-C3YF-1RF-OH | O/H KIT                      | 1        | Prop    | For aftermarket use only                   |

**IDS No.:** 1096      **Rev.:** 2      **IC Date:** 07/16/2015

**Modifier:** DAVIS AVIATION SERVICES

**Engine Model:** IO-550-D

**Power:** 300 HP @ 2700 RPM

**Placard/Restr:**

**Notes:**

**Startlock Angle:** NA

**Feather/High Angle:** 31.0 +-1.0

**Cwt Angle:**

**Non-HPI Governor:**

# HARTZELL

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**CESSNA**

**Model:** A188, A188A, A188B  
**Trade Name:** AG WAGON  
**Aircraft T.C./STC:** STC-SA3243SO  
**Propeller Model:** PHC-C3YF-1RF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** F7691  
**Prop Diameter:** 78.0" TO 77.0"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.4 +-0.1  
**Stud Protrusion** 1.450 +-0.030

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number     | Description                  | Quantity | Qty Per | Comments                 |
|---------------|-----------------|------------------------------|----------|---------|--------------------------|
| PROPELLER     | C3F00027        | PHC-C3YF-1RF/F7691/SM7       | 1        | A/C     |                          |
| BLADE         | F7691           | PCP:BLADE UNIT, ALUM [1,1,5] | 3        | Prop    |                          |
| SPINNER       | C-3535-1P       | SPINNER ASSEMBLY             | 1        | Prop    |                          |
| SPIN MTG KIT  | A-2476-7        | SPINNER - MTG KIT            | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2429-4        | STUD, MOUNTING, 1/2-20       | 6        | Prop    |                          |
| OVERHAUL KIT  | PHC-C3YF-1RF*1  | O/H KIT W/O SLIMSERTS        | 1        | Prop    | For aftermarket use only |
| OVERHAUL KIT  | PHC-C3YF-1RF-OH | O/H KIT                      | 1        | Prop    | For aftermarket use only |

**IDS No.:** 1479      **Rev.:** 1      **IC Date:** 07/16/2015

**Modifier:** DAVIS AVIATION SERVICES  
**Engine Model:** IO-550-D  
**Power:** 300 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 31.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

**CESSNA**

**Model:** A188A, A188B, T188C  
**Trade Name:** AG WAGON  
**Aircraft T.C./STC:** STC-SA8343SW  
**Propeller Model:** HC-C2YR-1BF  
**Propeller T.C.:** P-920  
**Blade Model(s):** F8475R  
 F8475T+2  
**Prop Diameter:** 84" TO 83"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.0 +-0.2  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number    | Description               | Quantity | Qty Per | Comments                 |
|---------------|----------------|---------------------------|----------|---------|--------------------------|
| PROPELLER     | C2R00051       | HC-C2YR-1BF/F8475R/SM14   | 1        | A/C     |                          |
| PROPELLER     | C2R00054       | HC-C2YR-1BF/F8475T+2/SM14 | 1        | A/C     |                          |
| BLADE         | F8475R         | PCP:BLADE UNIT, ALUMINUM  | 2        | Prop    |                          |
| BLADE         | F8475T+2       | PCP:BLADE UNIT, ALUMINUM  | 2        | Prop    |                          |
| SPINNER       | 835-44         | SPINNER ASSEMBLY          | 1        | Prop    |                          |
| SPINNER       | 835-44P        | SPINNER ASSEMBLY          | 1        | Prop    |                          |
| SPIN MTG KIT  | A-2476-14      | SPINNER - MTG KIT         | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2067         | STUD, MOUNTING, 1/2-20    | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-C2YR-1BF-OH | O/H KIT                   | 1        | Prop    | For aftermarket use only |

**IDS No.:** 391      **Rev.:** 1      **IC Date:** 07/07/2015

**Modifier:** CHARLES YATES  
**Engine Model:** IO-540-K1A5, -K1B5, -K1G5, -S1A5  
**Power:** 300 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 29.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

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CESSNA

**Model:** A188B/A2  
**Trade Name:** AG WAGON  
**Aircraft T.C./STC:** STC-61-6(AUST.)  
**Propeller Model:** HC-C3YR-1RF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** F8475R  
**Prop Diameter:** 86"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.0 +-0.1  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number | Description                | Quantity | Qty Per | Comments |
|---------------|-------------|----------------------------|----------|---------|----------|
| BLADE         | F8475R      | PCP:BLADE UNIT, ALUMINUM   | 3        | Prop    |          |
| SPINNER       | C-3535-1    | SPINNER ASSEMBLY           | 1        | Prop    |          |
| GOVERNOR      | F4-1D       | GOVERNOR ASSEMBLY, F-4-( ) | 1        | A/C     |          |
| MTG BOLT/STUD | A-2067      | STUD, MOUNTING, 1/2-20     | 6        | Prop    |          |

**IDS No.:** 387      **Rev.:** -      **DM Date:** 10/01/1992

**Modifier:** PAY'S AIR SERVICE  
**Engine Model:** IO-720-A1B  
**Power:** 400 HP @ 2625 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 30.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

CESSNA

**Model:** A188B/A2  
**Trade Name:** AG WAGON  
**Aircraft T.C./STC:** STC-61-6(AUST.)  
**Propeller Model:** HC-C3YR-1RF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** F8483  
**Prop Diameter:** 86"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.0 +-0.1  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number    | Description                | Quantity | Qty Per | Comments                 |
|---------------|----------------|----------------------------|----------|---------|--------------------------|
| PROPELLER     | C3R00100       | HC-C3YR-1RF/F8483/SM7      | 1        | A/C     |                          |
| PROPELLER     | C3R00100KD     | HC-C3YR-1RF/F8483/SM7      | 1        | A/C     |                          |
| BLADE         | F8483          | PCP:BLADE UNIT, ALUMINUM   | 3        | Prop    |                          |
| SPINNER       | C-3535-1       | SPINNER ASSEMBLY           | 1        | Prop    |                          |
| GOVERNOR      | F4-1D          | GOVERNOR ASSEMBLY, F-4-( ) | 1        | A/C     |                          |
| SPIN MTG KIT  | A-2476-7       | SPINNER - MTG KIT          | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2067         | STUD, MOUNTING, 1/2-20     | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-C3YR-1RF-OH | O/H KIT                    | 1        | Prop    | For aftermarket use only |

**IDS No.:** 388      **Rev.:** 2      **IC Date:** 07/16/2015

**Modifier:** PAY'S AIR SERVICE  
**Engine Model:** IO-720-A1B  
**Power:** 400 HP @ 2625 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 30.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

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**CESSNA**

**Model:** A188B, T188C  
**Trade Name:** AG WAGON  
**Aircraft T.C./STC:** STC-SA3609SW  
**Propeller Model:** HC-C3YR-1RF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** F8475R  
**Prop Diameter:** 86"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.0 +-0.1  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number    | Description                | Quantity | Qty Per | Comments                 |
|---------------|----------------|----------------------------|----------|---------|--------------------------|
| PROPELLER     | C3R00089       | HC-C3YR-1RF/F8475R/SM5     | 1        | A/C     |                          |
| BLADE         | F8475R         | PCP:BLADE UNIT, ALUMINUM   | 3        | Prop    |                          |
| SPINNER       | C-3535-1       | SPINNER ASSEMBLY           | 1        | Prop    |                          |
| SPINNER       | C-3535-1P      | SPINNER ASSEMBLY           | 1        | Prop    |                          |
| GOVERNOR      | F4-1D          | GOVERNOR ASSEMBLY, F-4-( ) | 1        | A/C     |                          |
| SPIN MTG KIT  | A-2476-5       | SPINNER - MTG KIT          | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2067         | STUD, MOUNTING, 1/2-20     | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-C3YR-1RF-OH | O/H KIT                    | 1        | Prop    | For aftermarket use only |

**IDS No.:** 1581      **Rev.:** 2      **IC**      **Date:** 07/16/2015

**Modifier:** CHARLES YATES  
**Engine Model:** IO-720-A1B  
**Power:** 400 HP @ 2625 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 30.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

**CESSNA**

**Model:** T188C/A2  
**Trade Name:** AG HUSKY  
**Aircraft T.C./STC:** STC-61-6(AUST.)  
**Propeller Model:** HC-C3YR-1RF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** F8483  
**Prop Diameter:** 86"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.0 +-0.1  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number    | Description              | Quantity | Qty Per | Comments                 |
|---------------|----------------|--------------------------|----------|---------|--------------------------|
| PROPELLER     | C3R00103       | HC-C3YR-1RF/F8483        | 1        | A/C     |                          |
| BLADE         | F8483          | PCP:BLADE UNIT, ALUMINUM | 3        | Prop    |                          |
| SPINNER       | 835-36         | SPINNER ASSEMBLY         | 1        | Prop    |                          |
| GOVERNOR      | F4-1           | IDS Item                 | 1        | A/C     |                          |
| MTG BOLT/STUD | A-2067         | STUD, MOUNTING, 1/2-20   | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-C3YR-1RF-OH | O/H KIT                  | 1        | Prop    | For aftermarket use only |

**IDS No.:** 386      **Rev.:** 1      **IC**      **Date:** 07/16/2015

**Modifier:** PAY'S AIR SERVICE  
**Engine Model:** IO-720-A1B  
**Power:** 400 HP @ 2625 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 30.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

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**CESSNA**

**Model:** T188C/A2  
**Trade Name:** AG HUSKY  
**Aircraft T.C./STC:** STC-61-6(AUST.)  
**Propeller Model:** HC-C3YR-1RF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** F8475R  
**Prop Diameter:** 86"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.0 +-0.1  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number    | Description              | Quantity | Qty Per | Comments                 |
|---------------|----------------|--------------------------|----------|---------|--------------------------|
| PROPELLER     | C3R00092       | HC-C3YR-1RF/F8475R       | 1        | A/C     |                          |
| PROPELLER     | C3R00092KD     | HC-C3YR-1RF/F8475R       | 1        | A/C     |                          |
| BLADE         | F8475R         | PCP:BLADE UNIT, ALUMINUM | 3        | Prop    |                          |
| SPINNER       | 835-36         | SPINNER ASSEMBLY         | 1        | Prop    |                          |
| GOVERNOR      | F4-1A          | IDS ITEM                 | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2067         | STUD, MOUNTING, 1/2-20   | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-C3YR-1RF-OH | O/H KIT                  | 1        | Prop    | For aftermarket use only |

**IDS No.:** 389      **Rev.:** 2      **IC Date:** 07/16/2015

**Modifier:** PAY'S AIR SERVICE  
**Engine Model:** IO-720-A1B  
**Power:** 400 HP @ 2625 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 30.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

**CESSNA**

**Model:** 190, 195, A, B  
**Trade Name:**  
**Aircraft T.C./STC:** STC-SA120NW  
**Propeller Model:** HC-B3Z20-4  
**Propeller T.C.:**  
**Blade Model(s):** 10160-12E  
 10160N-12E  
**Prop Diameter:** 89" MIN

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 17.0 +-0.2  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type | Item Number | Description      | Quantity | Qty Per | Comments |
|-----------|-------------|------------------|----------|---------|----------|
| BLADE     | 10160-12E   | IDS Item         | 3        | Prop    |          |
| BLADE     | 10160N-12E  | IDS Item         | 3        | Prop    |          |
| SPINNER   | 836-20      | SPINNER ASSEMBLY | 1        | Prop    |          |

**IDS No.:** 392      **Rev.:** -      **DM Date:** 10/01/1992

**Modifier:** WILLIAM WIPRUD  
**Engine Model:** R-755S  
**Power:** 350 HP @ 2200 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** BY TRAVEL  
**Cwt Angle:** Positive

**Non-HPI Governor:**



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CESSNA

IDS No.: 1530 Rev.: 2 IC Date: 07/16/2015

**Model:** 205 (A), (210-5 (A) )  
**Trade Name:** SUPER SKYLANE  
**Aircraft T.C./STC:** STC-SA09467SC  
**Propeller Model:** PHC-C3YF-1RF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** F8468A-6R  
**Prop Diameter:** 80" TO 79"

**Modifier:** TEXAS SKYWAYS  
**Engine Model:** IO-550-F  
**Power:** 300 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 11.5 +/-0.2  
**Stud Protrusion** 1.450 +/-0.030

**Startlock Angle:** NA  
**Feather/High Angle:** 32.0 +/-1.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>           | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>                            |
|------------------|--------------------|------------------------------|-----------------|----------------|--|
| PROPELLER        | C3F00124           | PHC-C3YF-1RF/F8468A-6R/SM7   | 1               | A/C            |  |
| BLADE            | F8468A-6R          | PCP:BLADE UNIT, ALUM [1,1,1] | 3               | Prop           |  |
| SPINNER          | A-2295-1P          | SPINNER ASSEMBLY             | 1               | Prop           |  |
| SPIN MTG KIT     | A-2476-7           | SPINNER - MTG KIT            | 1               | Prop           |  |
| MTG BOLT/STUD    | A-2429-4           | STUD, MOUNTING, 1/2-20       | 6               | Prop           | Use w/E-7154-2R Hub Only                   |
| MTG BOLT/STUD    | A-2429-7           | STUD, MOUNTING, 1/2-20       | 6               | Prop           | Use with E-7154-12R & E-7154-42R hubs only |
| OVERHAUL KIT     | PHC-C3YF-1RF*1     | O/H KIT W/O SLIMSERTS        | 1               | Prop           | For aftermarket use only                   |
| OVERHAUL KIT     | PHC-C3YF-1RF-OH    | O/H KIT                      | 1               | Prop           | For aftermarket use only                   |

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CESSNA

**Model:** ( )206( ), ( )210( )  
**Trade Name:** SEE NOTES  
**Aircraft T.C./STC:** SA02735CH

**Propeller Model:** HC-J3YF-1RF  
**Propeller T.C.:** P36EA  
**Blade Model(s):** F7693DF+2\*1  
 F7693DFB+2  
**Prop Diameter:** 80"-78"

**IDS No.:** 2902      **Rev.:** -      **DM Date:** 01/26/2010  
**Modifier:** Vitatoe Aviation LLC  
**Engine Model:** IO-520-A, IO-520-J, TSIO-520-C, TSIO-520-H  
**Power:** 285 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:** Aircraft Models: TU206F s/n 20602200 thru U20603521, P206, P206A, and TP206A (some), P206B thru P206E, TP206B thru TP206E, 210E thru 210J, T210F thru T210L  
 Aircraft Trade  
 Names: Super Skywagon, Super Skylane, Stationair, Turbo Stationair, Centurion

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** 12.1+ - 0.2  
**Stud Protrusion** 1.450 + - 0.030

**Startlock Angle:**  
**Feather/High Angle:** 32.0+ - 1.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>             | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>            |
|------------------|--------------------|--------------------------------|-----------------|----------------|----------------------------|
| PROPELLER        | J3F00253           | HC-J3YF-1RF/F7693DF+2[*1]/SM44 | 1               | A/C            |                            |
| PROPELLER        | J3F00253KD         | HC-J3YF-1RF/F7693DF+2[*1]/SM44 | 1               | A/C            |                            |
| PROPELLER        | J3F00454           | HC-J3YF-1RF/F7693DFB+2/SM44/DE | 1               | A/C            |                            |
| PROPELLER        | J3F00454KD         | HC-J3YF-1RF/F7693DFB+2/SM44/DE | 1               | A/C            |                            |
| BLADE            | F7693DF+2*1        | PCP:BLADE UNIT, ALUM [6,16,11] | 3               | Prop           |                            |
| BLADE            | F7693DFB+2         | PCP:BLADE UNIT, ALUM [6,16,11] | 3               | Prop           |                            |
| SPINNER          | C-4582-1           | SPINNER ASSEMBLY               | 1               | Prop           |                            |
| SPINNER          | C-4582-1P          | SPINNER ASSEMBLY               | 1               | Prop           |                            |
| SPIN MTG KIT     | A-2476-44          | SPINNER - MTG KIT              | 1               | Prop           |                            |
| DE-ICER          | 102811             | DE-ICE BOOT                    | 1               | Blade          |                            |
| DE-ICE KIT PR    | 103262             | DE-ICE KIT (ONE PROP)          | 1               | Prop           |                            |
| DE-ICE KIT A/F   | 103307             | AIRFRAME DE-ICE KIT            | 1               | A/C            | s/n 21059503 thru 21061141 |
| DE-ICE KIT A/F   | 103308             | AIRFRAME DE-ICE KIT            | 1               | A/C            | s/n 21061142 and later     |
| MTG BOLT/STUD    | A-2429-4           | STUD, MOUNTING, 1/2-20         | 6               | Prop           |                            |

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CESSNA

**Model:** ( )206( ), ( )210( )  
**Trade Name:** SEE NOTES  
**Aircraft T.C./STC:** SA02821CH

**Propeller Model:** HC-J3YF-1RF  
**Propeller T.C.:** P36EA  
**Blade Model(s):** F7693DF+2\*1  
 F7693DFB+2  
**Prop Diameter:** 80"-78"

**IDS No.:** 2979      **Rev.:** 1      **BC Date:** 07/25/2014  
**Modifier:** Hartzell Propeller  
**Engine Model:** IO-520-A, IO-520-J, TSIO-520-C, TSIO-520-H  
**Power:** 285 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:** Aircraft Models: TU206F s/n 20602200 thru U20603521, P206, P206A, and TP206A (some), P206B thru P206E, TP206B thru TP206E, 210E thru 210J, T210F thru T210L  
 Aircraft Trade  
 Names: Super Skywagon, Super Skylane, Stationair, Turbo Stationair, Centurion

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** 12.1+ - 0.2  
**Stud Protrusion** 1.450 + - 0.030

**Startlock Angle:**  
**Feather/High Angle:** 32.0+ - 1.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>             | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>            |
|------------------|--------------------|--------------------------------|-----------------|----------------|----------------------------|
| PROPELLER        | J3F00253           | HC-J3YF-1RF/F7693DF+2[*1]/SM44 | 1               | A/C            |                            |
| PROPELLER        | J3F00253KD         | HC-J3YF-1RF/F7693DF+2[*1]/SM44 | 1               | A/C            |                            |
| PROPELLER        | J3F00454           | HC-J3YF-1RF/F7693DFB+2/SM44/DE | 1               | A/C            |                            |
| PROPELLER        | J3F00454KD         | HC-J3YF-1RF/F7693DFB+2/SM44/DE | 1               | A/C            |                            |
| BLADE            | F7693DF+2*1        | PCP:BLADE UNIT, ALUM [6,16,11] | 3               | Prop           |                            |
| BLADE            | F7693DFB+2         | PCP:BLADE UNIT, ALUM [6,16,11] | 3               | Prop           |                            |
| SPINNER          | C-4582-1           | SPINNER ASSEMBLY               | 1               | Prop           |                            |
| SPINNER          | C-4582-1P          | SPINNER ASSEMBLY               | 1               | Prop           |                            |
| SPIN MTG KIT     | A-2476-44          | SPINNER - MTG KIT              | 1               | Prop           |                            |
| DE-ICER          | 102811             | DE-ICE BOOT                    | 1               | Blade          |                            |
| DE-ICE KIT PR    | 103262             | DE-ICE KIT (ONE PROP)          | 1               | Prop           |                            |
| DE-ICE KIT A/F   | 103307             | AIRFRAME DE-ICE KIT            | 1               | A/C            | s/n 21059503 thru 21061141 |
| DE-ICE KIT A/F   | 103308             | AIRFRAME DE-ICE KIT            | 1               | A/C            | s/n 21061142 and later     |
| MTG BOLT/STUD    | A-2429-4           | STUD, MOUNTING, 1/2-20         | 6               | Prop           |                            |

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CESSNA

IDS No.: 2907 Rev.: 2 IC Date: 07/16/2015

**Model:** ( )206( ), T207(A) See Notes  
**Trade Name:** Super Skywagon, Stationair, Turbo Stationair  
**Aircraft T.C./STC:** SA02735CH  
**Propeller Model:** HC-C3YF-1RF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** F7693DF+2\*1  
**Prop Diameter:** 80"-78"

**Modifier:** Vitatoe Aviation LLC.  
**Engine Model:** IO-550-F, TSIO-520-M

**Power:** 300 HP @ 2700 RPM

**Placard/Restr:**

**Notes:** For Cessna aircraft model ( )206( ) this installation data sheet is limited to aircraft that have been converted by Aero Modifications & Consulting, LLC STC SA00332AT or SA1482GL Wipaire

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** 12.8 + - 0.1  
**Stud Protrusion** 1.450 + - .030

**Startlock Angle:**

**Feather/High Angle:** 32.0 + - 1.0

**Cwt Angle:**

### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>             | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>                |
|------------------|--------------------|--------------------------------|-----------------|----------------|--------------------------------|
| PROPELLER        | C3F06101           | HC-C3YF-1RF/F7693DF+2*[1]/SM6  | 1               | A/C            |                                |
| PROPELLER        | C3F06101KD         | HC-C3YF-1RF/F7693DF+2*[1]/SM6  | 1               | A/C            |                                |
| BLADE            | F7693DF+2*1        | PCP:BLADE UNIT, ALUM [6,16,11] | 3               | Prop           |                                |
| SPINNER          | A-2295-1           | SPINNER ASSEMBLY               | 1               | Prop           | Use on STC SA00332AT, SA1482GL |
| SPINNER          | A-2295-1P          | SPINNER ASSEMBLY               | 1               | Prop           | Use on STC SA00332AT, SA1482GL |
| SPIN MTG KIT     | A-2476-6           | SPINNER - MTG KIT              | 1               | Prop           |                                |
| MTG BOLT/STUD    | A-2429-4           | STUD, MOUNTING, 1/2-20         | 6               | Prop           |                                |
| OVERHAUL KIT     | HC-C3YF-1RF-OH     | O/H KIT                        | 1               | Prop           | For aftermarket use only       |

# HARTZELL

## APPLICATION GUIDE 159

CESSNA

IDS No.: 2984 Rev.: 3 IC Date: 07/16/2015

**Model:** ( )206( ), T207(A) See Notes  
**Trade Name:** Super Skywagon, Stationair, Turbo Stationair  
**Aircraft T.C./STC:** SA02821CH  
**Propeller Model:** HC-C3YF-1RF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** F7693DF+2\*1  
**Prop Diameter:** 80"-78"

**Modifier:** Hartzell Propeller  
**Engine Model:** IO-550-F, TSIO-520-M

**Power:** 300 HP @ 2700 RPM

**Placard/Restr:**

**Notes:** For Cessna aircraft model ( )206( ) this installation data sheet is limited to aircraft that have been converted by Aero Modifications & Consulting, LLC STC SA00332AT or SA1482GL Wipaire

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** 12.8 + - 0.1  
**Stud Protrusion** 1.450 + - .030

**Startlock Angle:**  
**Feather/High Angle:** 32.0 + - 1.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type     | Item Number    | Description                    | Quantity | Qty Per | Comments                       |
|---------------|----------------|--------------------------------|----------|---------|--------------------------------|
| PROPELLER     | C3F06101       | HC-C3YF-1RF/F7693DF+2*[1]/SM6  | 1        | A/C     |                                |
| PROPELLER     | C3F06101KD     | HC-C3YF-1RF/F7693DF+2*[1]/SM6  | 1        | A/C     |                                |
| BLADE         | F7693DF+2*1    | PCP:BLADE UNIT, ALUM [6,16,11] | 3        | Prop    |                                |
| SPINNER       | A-2295-1       | SPINNER ASSEMBLY               | 1        | Prop    | Use on STC SA00332AT, SA1482GL |
| SPINNER       | A-2295-1P      | SPINNER ASSEMBLY               | 1        | Prop    | Use on STC SA00332AT, SA1482GL |
| SPIN MTG KIT  | A-2476-6       | SPINNER - MTG KIT              | 1        | Prop    |                                |
| MTG BOLT/STUD | A-2429-4       | STUD, MOUNTING, 1/2-20         | 6        | Prop    |                                |
| OVERHAUL KIT  | HC-C3YF-1RF-OH | O/H KIT                        | 1        | Prop    | For aftermarket use only       |

# HARTZELL

## APPLICATION GUIDE

159

Cessna

**Model:** ()206(), T207(A)  
**Trade Name:** Super Skywagon, Stationair  
**Aircraft T.C./STC:** SA02735CH  
**Propeller Model:** HC-C3YF-1RF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** F8068\*4  
**Prop Diameter:** 82" - 78"

**IDS No.:** 2888      **Rev.:** 2      **IC Date:** 07/16/2015

**Modifier:** Vitatoo Aviation LLC  
**Engine Model:** IO-550-F, TSIO-520-G  
**Power:** 300 HP @ 2700 RPM  
**Placard/Restr:**

**Notes:** Eligible on Atlantic Aero STC SA00332AT, Wipaire STC SA1482GL, and stock Turbo 207(A), and stock T207(A).

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** 13.0+- .2  
**Stud Protrusion** 1.450 +/- .030

**Startlock Angle:**  
**Feather/High Angle:** 32.0+-1.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type     | Item Number    | Description                   | Quantity | Qty Per | Comments                 |
|---------------|----------------|-------------------------------|----------|---------|--------------------------|
| PROPELLER     | C3F07101       | HC-C3YF-1RF/F8068*[4]/SM6     | 1        | A/C     |                          |
| PROPELLER     | C3F07101KD     | HC-C3YF-1RF/F8068*[4]/SM6     | 1        | A/C     |                          |
| BLADE         | F8068*4        | PCP:BLADE UNIT, ALUM [6,16,5] | 3        | Prop    |                          |
| SPINNER       | A-2295-1       | SPINNER ASSEMBLY              | 1        | Prop    |                          |
| SPINNER       | A-2295-1P      | SPINNER ASSEMBLY              | 1        | Prop    |                          |
| SPIN MTG KIT  | A-2476-6       | SPINNER - MTG KIT             | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2429-4       | STUD, MOUNTING, 1/2-20        | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-C3YF-1RF-OH | O/H KIT                       | 1        | Prop    | For aftermarket use only |

CESSNA

**Model:** ()206(), T207(A)  
**Trade Name:** Super Skywagon, Stationair  
**Aircraft T.C./STC:** SA02821CH  
**Propeller Model:** HC-C3YF-1RF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** F8068\*4  
**Prop Diameter:** 82" - 78"

**IDS No.:** 2975      **Rev.:** 3      **IC Date:** 07/16/2015

**Modifier:** Hartzell Propeller  
**Engine Model:** IO-550-F, TSIO-520-G  
**Power:** 300 HP @ 2700 RPM  
**Placard/Restr:**

**Notes:** Eligible on Atlantic Aero STC SA00332AT, Wipaire STC SA1482GL, and stock Turbo 207(A), and stock T207(A).

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** 13.0+- .2  
**Stud Protrusion** 1.450 +/- .030

**Startlock Angle:**  
**Feather/High Angle:** 32.0+-1.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type     | Item Number    | Description                   | Quantity | Qty Per | Comments                 |
|---------------|----------------|-------------------------------|----------|---------|--------------------------|
| PROPELLER     | C3F07101       | HC-C3YF-1RF/F8068*[4]/SM6     | 1        | A/C     |                          |
| PROPELLER     | C3F07101KD     | HC-C3YF-1RF/F8068*[4]/SM6     | 1        | A/C     |                          |
| BLADE         | F8068*4        | PCP:BLADE UNIT, ALUM [6,16,5] | 3        | Prop    |                          |
| SPINNER       | A-2295-1       | SPINNER ASSEMBLY              | 1        | Prop    |                          |
| SPINNER       | A-2295-1P      | SPINNER ASSEMBLY              | 1        | Prop    |                          |
| SPIN MTG KIT  | A-2476-6       | SPINNER - MTG KIT             | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2429-4       | STUD, MOUNTING, 1/2-20        | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-C3YF-1RF-OH | O/H KIT                       | 1        | Prop    | For aftermarket use only |

# HARTZELL

## APPLICATION GUIDE 159

CESSNA

**Model:** ( )206( ), ( )207( )  
**Trade Name:** Super Skywagon, Stationair  
**Aircraft T.C./STC:** SA02735CH  
**Propeller Model:** HC-C3YF-1RF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** F8068\*4  
**Prop Diameter:** 80"-78"

**IDS No.:** 2869      **Rev.:** 1      **IC Date:** 07/16/2015

**Modifier:** Vitatoe Aviation LLC  
**Engine Model:** IO-550-F  
**Power:** 300 HP @ 2700 RPM  
**Placard/Restr:**

**Notes:** Eligible on Texas Skyways STC SA10010SC ( )206( ). Eligible on Texas Skyways STC SA10011SC ( )207( ). D-5732-P Eligible on Texas Skyways STC SA10010SC and SA10011SC  
 A-2476-25 Eligible on Texas Skyways STC SA10010SC and SA10011SC

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** 13.0+-.2  
**Stud Protrusion** 1.450 +/- .030

**Startlock Angle:**  
**Feather/High Angle:** 32.0+-1.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>            | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>           |
|------------------|--------------------|-------------------------------|-----------------|----------------|---------------------------|
| PROPELLER        | C3F07102           | HC-C3YF-1RF/F8068*[4]/SM25    | 1               | A/C            |                           |
| PROPELLER        | C3F07102KD         | HC-C3YF-1RF/F8068*[4]/SM25    | 1               | A/C            |                           |
| BLADE            | F8068*4            | PCP:BLADE UNIT, ALUM [6,16,5] | 3               | Prop           |                           |
| SPINNER          | D-5732-P           | SPINNER ASSEMBLY              | 1               | Prop           | See notes for eligibility |
| SPIN MTG KIT     | A-2476-25          | SPINNER - MTG KIT             | 1               | Prop           | See notes for eligibility |
| MTG BOLT/STUD    | A-2429-4           | STUD, MOUNTING, 1/2-20        | 6               | Prop           |                           |
| MTG BOLT/STUD    | A-2429-4           | STUD, MOUNTING, 1/2-20        | 6               | Prop           |                           |
| OVERHAUL KIT     | HC-C3YF-1RF-OH     | O/H KIT                       | 1               | Prop           | For aftermarket use only  |

# HARTZELL

## APPLICATION GUIDE 159

CESSNA

IDS No.: 2974 Rev.: 2 IC Date: 07/16/2015

**Model:** ( )206(), ( )207()  
**Trade Name:** Super Skywagon, Stationair  
**Aircraft T.C./STC:** SA02821CH  
**Propeller Model:** HC-C3YF-1RF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** F8068\*4  
**Prop Diameter:** 80"-78"

**Modifier:** Hartzell Propeller  
**Engine Model:** IO-550-F  
**Power:** 300 HP @ 2700 RPM  
**Placard/Restr:**

**Notes:** Eligible on Texas Skyways STC SA10010SC ( )206( ). Eligible on Texas Skyways STC SA10011SC ( )207(). D-5732-P Eligible on Texas Skyways STC SA10010SC and SA10011SC. A-2476-25 Eligible on Texas Skyways STC SA10010SC and SA10011SC

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** 13.0+-.2  
**Stud Protrusion** 1.450 +/- .030

**Startlock Angle:**  
**Feather/High Angle:** 32.0+-1.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>            | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>           |
|------------------|--------------------|-------------------------------|-----------------|----------------|---------------------------|
| PROPELLER        | C3F07102           | HC-C3YF-1RF/F8068*[4]/SM25    | 1               | A/C            |                           |
| PROPELLER        | C3F07102KD         | HC-C3YF-1RF/F8068*[4]/SM25    | 1               | A/C            |                           |
| BLADE            | F8068*4            | PCP:BLADE UNIT, ALUM [6,16,5] | 3               | Prop           |                           |
| SPINNER          | D-5732-P           | SPINNER ASSEMBLY              | 1               | Prop           | See notes for eligibility |
| SPIN MTG KIT     | A-2476-25          | SPINNER - MTG KIT             | 1               | Prop           | See notes for eligibility |
| MTG BOLT/STUD    | A-2429-4           | STUD, MOUNTING, 1/2-20        | 6               | Prop           |                           |
| OVERHAUL KIT     | HC-C3YF-1RF-OH     | O/H KIT                       | 1               | Prop           | For aftermarket use only  |



# HARTZELL

## APPLICATION GUIDE

159

CESSNA

IDS No.: 2911 Rev.: 1 IC Date: 07/16/2015

**Model:** ( )206( ), 210D  
**Trade Name:** Super Skywagon, Stationair, Turbo Stationair, Cen  
**Aircraft T.C./STC:** SA02735CH  
**Propeller Model:** HC-C3YF-1RF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** F8068\*4  
**Prop Diameter:** 82" - 78"

**Modifier:** Vitatoe Aviation LLC  
**Engine Model:** IO-520-A, TSIO-520-C

**Power:** 285 HP @ 2700 RPM

**Placard/Restr:**

**Notes:** Super Skywagon, Stationair. Turbo Stationair, Centurion

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** 12.3 + - 0.2  
**Stud Protrusion** 1.450 + - .030

**Startlock Angle:**  
**Feather/High Angle:** 32.0 + - 1.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type     | Item Number    | Description                   | Quantity | Qty Per | Comments                 |
|---------------|----------------|-------------------------------|----------|---------|--------------------------|
| PROPELLER     | C3F07100       | HC-C3YF-1RF/F8068*[4]/SM30    | 1        | A/C     |                          |
| PROPELLER     | C3F07100KD     | HC-C3YF-1RF/F8068*[4]/SM30    | 1        | A/C     |                          |
| BLADE         | F8068*4        | PCP:BLADE UNIT, ALUM [6,16,5] | 3        | Prop    |                          |
| SPINNER       | A-2295-1       | SPINNER ASSEMBLY              | 1        | Prop    |                          |
| SPINNER       | A-2295-1P      | SPINNER ASSEMBLY              | 1        | Prop    |                          |
| SPIN MTG KIT  | A-2476-30      | SPINNER - MTG KIT             | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2429-4       | STUD, MOUNTING, 1/2-20        | 6        | Prop    |                          |
| MTG BOLT/STUD | A-2429-4       | STUD, MOUNTING, 1/2-20        | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-C3YF-1RF-OH | O/H KIT                       | 1        | Prop    | For aftermarket use only |

# HARTZELL

## APPLICATION GUIDE

159

CESSNA

IDS No.: 2988 Rev.: 2 IC Date: 07/16/2015

**Model:** ( )206( ), 210D  
**Trade Name:** Super Skywagon, Stationair, Turbo Stationair, Cen  
**Aircraft T.C./STC:** SA02821CH  
**Propeller Model:** HC-C3YF-1RF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** F8068\*4  
**Prop Diameter:** 82" - 78"

**Modifier:** Hartzell Propeller  
**Engine Model:** IO-520-A, TSIO-520-C

**Power:** 285 HP @ 2700 RPM  
**Placard/Restr:**

**Notes:** Super Skywagon, Stationair. Turbo Stationair, Centurion

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** 12.3 + - 0.2  
**Stud Protrusion** 1.450 + - .030

**Startlock Angle:**  
**Feather/High Angle:** 32.0 + - 1.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type     | Item Number    | Description                   | Quantity | Qty Per | Comments                 |
|---------------|----------------|-------------------------------|----------|---------|--------------------------|
| PROPELLER     | C3F07100       | HC-C3YF-1RF/F8068*[4]/SM30    | 1        | A/C     |                          |
| PROPELLER     | C3F07100KD     | HC-C3YF-1RF/F8068*[4]/SM30    | 1        | A/C     |                          |
| BLADE         | F8068*4        | PCP:BLADE UNIT, ALUM [6,16,5] | 3        | Prop    |                          |
| SPINNER       | A-2295-1       | SPINNER ASSEMBLY              | 1        | Prop    |                          |
| SPINNER       | A-2295-1P      | SPINNER ASSEMBLY              | 1        | Prop    |                          |
| SPIN MTG KIT  | A-2476-30      | SPINNER - MTG KIT             | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2429-4       | STUD, MOUNTING, 1/2-20        | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-C3YF-1RF-OH | O/H KIT                       | 1        | Prop    | For aftermarket use only |

# HARTZELL

## APPLICATION GUIDE

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CESSNA

IDS No.: 2890 Rev.: - DM Date: 04/05/2010

**Model:** U206G s/n U20604075 & after,210K thru 210N

**Modifier:** Vitatoe Aviation LLC

**Trade Name:** Super Skywagon, Stationair, Sta.7, Sta.8.Centurion

**Engine Model:** IO-520-F, IO-520-L

**Aircraft T.C./STC:** SA02735CH

**Propeller Model:** HC-J3YF-1RF

**Power:** 300 HP @ 2850 RPM

**Propeller T.C.:** P36EA

**Placard/Restr:**

**Blade Model(s):** F8068-2\*2

F8068B-2\*1

**Notes:** Use 103307 De-ice kit with 210L: S/N 21059503 thru 21061141

**Prop Diameter:** 80"-78"

Use 103308 Deice kit with 210L,M,N: S/N 21061142 and UP

### Prop Setup:

**Ref. Radius:** 30

**Startlock Angle:**

**Reverse Angle:**

**Feather/High Angle:** 32.0+-1.0

**Low Pitch Angle:** 11.3+-0.2

**Cwt Angle:**

**Stud Protrusion** 1.450 +/- .030

### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>            | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|-------------------------------|-----------------|----------------|-----------------|
| PROPELLER        | J3F00501           | HC-J3YF-1RF/F8068-2[*2]/SM44  | 1               | A/C            |                 |
| PROPELLER        | J3F00501KD         | HC-J3YF-1RF/F8068-2[*2]/SM44  | 1               | A/C            |                 |
| PROPELLER        | J3F00650           | HC-J3YF-1RF/F8068B-2[*1]/SM44 | 1               | A/C            |                 |
| PROPELLER        | J3F00650KD         | HC-J3YF-1RF/F8068B-2[*1]/SM44 | 1               | A/C            |                 |
| BLADE            | F8068-2*2          | PCP:BLADE UNIT, ALUM [6,16,5] | 3               | Prop           |                 |
| BLADE            | F8068B-2*1         | PCP:BLADE UNIT, ALUM [6,16,5] | 3               | Prop           |                 |
| SPINNER          | C-4582-1           | SPINNER ASSEMBLY              | 1               | Prop           |                 |
| SPINNER          | C-4582-1P          | SPINNER ASSEMBLY              | 1               | Prop           |                 |
| SPIN MTG KIT     | A-2476-44          | SPINNER - MTG KIT             | 1               | Prop           |                 |
| DE-ICER          | 103258             | DE-ICE BOOT                   | 1               | Blade          |                 |
| DE-ICE KIT PR    | 103262             | DE-ICE KIT (ONE PROP)         | 1               | Prop           |                 |
| DE-ICE KIT A/F   | 103307             | AIRFRAME DE-ICE KIT           | 1               | A/C            | See Notes       |
| DE-ICE KIT A/F   | 103308             | AIRFRAME DE-ICE KIT           | 1               | A/C            | See Notes       |
| MTG BOLT/STUD    | A-2429-4           | STUD, MOUNTING, 1/2-20        | 6               | Prop           |                 |
| MTG BOLT/STUD    | A-2429-4           | STUD, MOUNTING, 1/2-20        | 6               | Prop           |                 |

# HARTZELL

## APPLICATION GUIDE

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CESSNA

IDS No.: 2976 Rev.: 1 BC Date: 07/25/2014

**Model:** U206G s/n U20604075 & after,210K thru 210N

**Modifier:** Hartzell Propeller

**Trade Name:** Super Skywagon, Stationair, Sta.7, Sta.8.Centurion

**Engine Model:** IO-520-F, IO-520-L

**Aircraft T.C./STC:** SA02821CH

**Propeller Model:** HC-J3YF-1RF

**Power:** 300 HP @ 2850 RPM

**Propeller T.C.:** P36EA

**Placard/Restr:**

**Blade Model(s):** F8068-2\*2  
F8068B-2\*1

**Notes:** Use 103307 De-ice kit with 210L: S/N 21059503 thru 21061141. Use 103308 Deice kit with 210L,M,N: S/N 21061142 and UP.

**Prop Diameter:** 80"-78"

### Prop Setup:

**Ref. Radius:** 30

**Startlock Angle:**

**Reverse Angle:**

**Feather/High Angle:** 32.0+-1.0

**Low Pitch Angle:** 11.3+-0.2

**Cwt Angle:**

**Stud Protrusion** 1.450 +/- .030

### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>            | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|-------------------------------|-----------------|----------------|-----------------|
| PROPELLER        | J3F00501           | HC-J3YF-1RF/F8068-2[*2]/SM44  | 1               | A/C            |                 |
| PROPELLER        | J3F00501KD         | HC-J3YF-1RF/F8068-2[*2]/SM44  | 1               | A/C            |                 |
| PROPELLER        | J3F00650           | HC-J3YF-1RF/F8068B-2[*1]/SM44 | 1               | A/C            |                 |
| PROPELLER        | J3F00650KD         | HC-J3YF-1RF/F8068B-2[*1]/SM44 | 1               | A/C            |                 |
| BLADE            | F8068-2*2          | PCP:BLADE UNIT, ALUM [6,16,5] | 3               | Prop           |                 |
| BLADE            | F8068B-2*1         | PCP:BLADE UNIT, ALUM [6,16,5] | 3               | Prop           |                 |
| SPINNER          | C-4582-1           | SPINNER ASSEMBLY              | 1               | Prop           |                 |
| SPINNER          | C-4582-1P          | SPINNER ASSEMBLY              | 1               | Prop           |                 |
| SPIN MTG KIT     | A-2476-44          | SPINNER - MTG KIT             | 1               | Prop           |                 |
| DE-ICER          | 103258             | DE-ICE BOOT                   | 1               | Blade          |                 |
| DE-ICE KIT PR    | 103262             | DE-ICE KIT (ONE PROP)         | 1               | Prop           |                 |
| DE-ICE KIT A/F   | 103307             | AIRFRAME DE-ICE KIT           | 1               | A/C            | See Notes       |
| DE-ICE KIT A/F   | 103308             | AIRFRAME DE-ICE KIT           | 1               | A/C            | See Notes       |
| MTG BOLT/STUD    | A-2429-4           | STUD, MOUNTING, 1/2-20        | 6               | Prop           |                 |

# HARTZELL

## APPLICATION GUIDE 159

CESSNA

**Model:** ( )206( ) See Notes  
**Trade Name:** Super Skywagon, Stationair, Turbo Stationai  
**Aircraft T.C./STC:** SA02735CH  
**Propeller Model:** HC-C3YF-1RF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** F7693DF+2\*1  
**Prop Diameter:** 80"- 78"

**IDS No.:** 2908      **Rev.:** 1      **IC Date:** 07/16/2015

**Modifier:** Vitatoe Aviation LLC  
**Engine Model:** IO-550-F

**Power:** 300 HP @ 2700 RPM

**Placard/Restr:**

**Notes:** This installation data sheet is limited to aircraft that have been converted by Texas Skyways STC No. SA10010SC, Atlantic Aero SA00332AT, Wipair SA1482GL. A-2295-1(P) Eligible on SA00332AT & SA1482GL. A-2476-30 Eligible on SA00332AT & SA1482GL.

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** 12.8 + - 0.1  
**Stud Protrusion** 1.450 + - .030

**Startlock Angle:**  
**Feather/High Angle:** 32.0 + - 1.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>             | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|--------------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | C3F05100           | HC-C3YF-1RF/F7693DF+2*[1]/SM25 | 1               | A/C            |                          |
| PROPELLER        | C3F05100KD         | HC-C3YF-1RF/F7693DF+2*[1]/SM25 | 1               | A/C            |                          |
| BLADE            | F7693DF+2*1        | PCP:BLADE UNIT, ALUM [6,16,11] | 3               | Prop           |                          |
| SPINNER          | A-2295-1           | SPINNER ASSEMBLY               | 1               | Prop           | See Notes                |
| SPINNER          | A-2295-1P          | SPINNER ASSEMBLY               | 1               | Prop           | See Notes                |
| SPINNER          | D-5732             | IDS Item                       | 1               | Prop           | Use on STC SA10010SC     |
| SPINNER          | D-5732-P           | SPINNER ASSEMBLY               | 1               | Prop           | Use on STC SA10010SC     |
| SPIN MTG KIT     | A-2476-25          | SPINNER - MTG KIT              | 1               | Prop           |                          |
| SPIN MTG KIT     | A-2476-30          | SPINNER - MTG KIT              | 1               | Prop           | See Notes                |
| MTG BOLT/STUD    | A-2429-4           | STUD, MOUNTING, 1/2-20         | 6               | Prop           |                          |
| OVERHAUL KIT     | HC-C3YF-1RF-OH     | O/H KIT                        | 1               | Prop           | For aftermarket use only |

# HARTZELL

## APPLICATION GUIDE 159

CESSNA

IDS No.: 2985 Rev.: 2 IC Date: 07/16/2015

**Model:** ( )206( ) See Notes  
**Trade Name:** Super Skywagon, Stationair, Turbo Stationai  
**Aircraft T.C./STC:** SA02821CH  
**Propeller Model:** HC-C3YF-1RF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** F7693DF+2\*1  
**Prop Diameter:** 80"- 78"

**Modifier:** Hartzell Propeller  
**Engine Model:** IO-550-F

**Power:** 300 HP @ 2700 RPM

**Placard/Restr:**

**Notes:** This installation data sheet is limited to aircraft that have been converted by Texas Skyways STC No. SA10010SC Atlantic Aero SA00332AT, Wipair SA1482GL

A-

2295-1(P) Eligible on SA00332AT & SA1482GL, A-2476-30 Eligible on SA00332AT & SA1482GL

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** 12.8 + - 0.1  
**Stud Protrusion** 1.450 + - .030

**Startlock Angle:**  
**Feather/High Angle:** 32.0 + - 1.0  
**Cwt Angle:**

### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>             | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|--------------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | C3F05100           | HC-C3YF-1RF/F7693DF+2*[1]/SM25 | 1               | A/C            |                          |
| PROPELLER        | C3F05100KD         | HC-C3YF-1RF/F7693DF+2*[1]/SM25 | 1               | A/C            |                          |
| BLADE            | F7693DF+2*1        | PCP:BLADE UNIT, ALUM [6,16,11] | 3               | Prop           |                          |
| SPINNER          | A-2295-1           | SPINNER ASSEMBLY               | 1               | Prop           | See Notes                |
| SPINNER          | A-2295-1P          | SPINNER ASSEMBLY               | 1               | Prop           | See Notes                |
| SPINNER          | D-5732             | IDS Item                       | 1               | Prop           | Use on STC SA10010SC     |
| SPINNER          | D-5732-P           | SPINNER ASSEMBLY               | 1               | Prop           | Use on STC SA10010SC     |
| SPIN MTG KIT     | A-2476-25          | SPINNER - MTG KIT              | 1               | Prop           |                          |
| SPIN MTG KIT     | A-2476-30          | SPINNER - MTG KIT              | 1               | Prop           | See Notes                |
| MTG BOLT/STUD    | A-2429-4           | STUD, MOUNTING, 1/2-20         | 6               | Prop           |                          |
| OVERHAUL KIT     | HC-C3YF-1RF-OH     | O/H KIT                        | 1               | Prop           | For aftermarket use only |

# HARTZELL

## APPLICATION GUIDE

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**CESSNA**

**Model:** TU206G  
**Trade Name:** TURBO STATIONAIR  
**Aircraft T.C./STC:** SA02735CH  
**Propeller Model:** HC-J3YF-1RF  
**Propeller T.C.:** P36EA  
**Blade Model(s):** F7693DF+2\*1  
**Prop Diameter:** 80"-78"

**IDS No.:** 2933      **Rev.:** -      **DM Date:** 12/11/2009

**Modifier:** Vitatoe Aviation LLC  
**Engine Model:** TSIO-520-M  
**Power:** 310 HP @ 2700 RPM  
**Placard/Restr:** None  
**Notes:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** 12.8 +-0.2  
**Stud Protrusion** 1.450 +-0.030

**Startlock Angle:**  
**Feather/High Angle:** 32.0 +-1.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type     | Item Number | Description                    | Quantity | Qty Per | Comments |
|---------------|-------------|--------------------------------|----------|---------|----------|
| PROPELLER     | J3F00252    | HC-J3YF-1RF/F7693DF+2[*1]/SM44 | 1        | A/C     |          |
| PROPELLER     | J3F00252KD  | HC-J3YF-1RF/F7693DF+2[*1]/SM44 | 1        | A/C     |          |
| BLADE         | F7693DF+2*1 | PCP:BLADE UNIT, ALUM [6,16,11] | 3        | Prop    |          |
| SPINNER       | C-4582-1    | SPINNER ASSEMBLY               | 1        | A/C     |          |
| SPINNER       | C-4582-1P   | SPINNER ASSEMBLY               | 1        | A/C     |          |
| SPIN MTG KIT  | A-2476-44   | SPINNER - MTG KIT              | 1        | Prop    |          |
| MTG BOLT/STUD | A-2429-4    | STUD, MOUNTING, 1/2-20         | 6        | Prop    |          |

**CESSNA**

**Model:** TU206G  
**Trade Name:** TURBO STATIONAIR  
**Aircraft T.C./STC:** SA02821CH  
**Propeller Model:** HC-J3YF-1RF  
**Propeller T.C.:** P36EA  
**Blade Model(s):** F7693DF+2\*1  
**Prop Diameter:** 80"-78"

**IDS No.:** 2999      **Rev.:** 1      **BC Date:** 07/25/2014

**Modifier:** Hartzell Propeller  
**Engine Model:** TSIO-520-M  
**Power:** 310 HP @ 2700 RPM  
**Placard/Restr:** None  
**Notes:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** 12.8 +-0.2  
**Stud Protrusion** 1.450 +-0.030

**Startlock Angle:**  
**Feather/High Angle:** 32.0 +-1.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type     | Item Number | Description                    | Quantity | Qty Per | Comments |
|---------------|-------------|--------------------------------|----------|---------|----------|
| PROPELLER     | J3F00252    | HC-J3YF-1RF/F7693DF+2[*1]/SM44 | 1        | A/C     |          |
| PROPELLER     | J3F00252KD  | HC-J3YF-1RF/F7693DF+2[*1]/SM44 | 1        | A/C     |          |
| BLADE         | F7693DF+2*1 | PCP:BLADE UNIT, ALUM [6,16,11] | 3        | Prop    |          |
| SPINNER       | C-4582-1    | SPINNER ASSEMBLY               | 1        | A/C     |          |
| SPINNER       | C-4582-1P   | SPINNER ASSEMBLY               | 1        | A/C     |          |
| SPIN MTG KIT  | A-2476-44   | SPINNER - MTG KIT              | 1        | Prop    |          |
| MTG BOLT/STUD | A-2429-4    | STUD, MOUNTING, 1/2-20         | 6        | Prop    |          |

# HARTZELL

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Cessna

IDS No.: 2910 Rev.: - DM Date: 12/21/2009

**Model:** U206G s/n U20604075 and after, 210K thru 210L

**Modifier:** Vitatoe Aviation LLC

**Trade Name:** Stationair, Centurion

**Engine Model:** IO-520-F, IO-520-L

**Aircraft T.C./STC:** SA02735CH

**Power:** 300 HP @ 2850 RPM

**Propeller Model:** HC-J3YF-1RF

**Placard/Restr:**

**Propeller T.C.:** P36EA

**Notes:**

**Blade Model(s):** F7693DF+2\*1

F7693DFB+2

**Prop Diameter:** 80"-78"

**Prop Setup:**

**Ref. Radius:** 30

**Startlock Angle:**

**Reverse Angle:**

**Feather/High Angle:** 32.0 + - 1.0

**Low Pitch Angle:** 11.0 + - 0.2

**Cwt Angle:**

**Stud Protrusion:** 1.450 + - 0.030

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>             | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>                |
|------------------|--------------------|--------------------------------|-----------------|----------------|--------------------------------|
| PROPELLER        | J3F00251           | HC-J3YF-1RF/F7693DF+2[*1]/SM44 | 1               | A/C            |                                |
| PROPELLER        | J3F00251KD         | HC-J3YF-1RF/F7693DF+2[*1]/SM44 | 1               | A/C            |                                |
| PROPELLER        | J3F00451           | HC-J3YF-1RF/F7693DFB+2/SM44/DE | 1               | A/C            | Use on 28 V 210L only          |
| PROPELLER        | J3F00451KD         | HC-J3YF-1RF/F7693DFB+2/SM44/DE | 1               | A/C            | Use on 28 V 210L only          |
| BLADE            | F7693DF+2*1        | PCP:BLADE UNIT, ALUM [6,16,11] | 3               | Prop           |                                |
| BLADE            | F7693DFB+2         | PCP:BLADE UNIT, ALUM [6,16,11] | 3               | Prop           | Use on 28 V 210L only          |
| SPINNER          | C-4582-1           | SPINNER ASSEMBLY               | 1               | Prop           |                                |
| SPINNER          | C-4582-1P          | SPINNER ASSEMBLY               | 1               | Prop           |                                |
| SPINNER          | D-5732-P           | SPINNER ASSEMBLY               | 1               | Prop           | Optional                       |
| SPIN MTG KIT     | A-2476-44          | SPINNER - MTG KIT              | 1               | Prop           |                                |
| DE-ICER          | 102811             | DE-ICE BOOT                    | 1               | Blade          | Use on 28 V 210L only          |
| DE-ICE KIT PR    | 103262             | DE-ICE KIT (ONE PROP)          | 1               | Prop           | Use on 28 V 210L only          |
| DE-ICE KIT A/F   | 103307             | AIRFRAME DE-ICE KIT            | 1               | A/C            | Use on 210L S/N 21059503-61141 |
| DE-ICE KIT A/F   | 103308             | AIRFRAME DE-ICE KIT            | 1               | A/C            | Use on 210L S/N 21061142 & up  |
| MTG BOLT/STUD    | A-2429-4           | STUD, MOUNTING, 1/2-20         | 6               | Prop           |                                |



# HARTZELL

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CESSNA

IDS No.: 2987 Rev.: 1 BC Date: 07/25/2014

**Model:** U206G s/n U20604075 and after, 210K thru 210L

**Modifier:** Hartzell Propeller

**Trade Name:** Stationair, Centurion

**Engine Model:** IO-520-F, IO-520-L

**Aircraft T.C./STC:** SA02821CH

**Power:** 300 HP @ 2850 RPM

**Propeller Model:** HC-J3YF-1RF

**Placard/Restr:**

**Propeller T.C.:** P36EA

**Notes:**

**Blade Model(s):** F7693DF+2\*1

F7693DFB+2

**Prop Diameter:** 80"-78"

### Prop Setup:

**Ref. Radius:** 30

**Startlock Angle:**

**Reverse Angle:**

**Feather/High Angle:** 32.0 + - 1.0

**Low Pitch Angle:** 11.0 + - 0.2

**Cwt Angle:**

**Stud Protrusion** 1.450 + - 0.030

### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>             | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>                |
|------------------|--------------------|--------------------------------|-----------------|----------------|--------------------------------|
| PROPELLER        | J3F00251           | HC-J3YF-1RF/F7693DF+2[*1]/SM44 | 1               | A/C            |                                |
| PROPELLER        | J3F00251KD         | HC-J3YF-1RF/F7693DF+2[*1]/SM44 | 1               | A/C            |                                |
| PROPELLER        | J3F00451           | HC-J3YF-1RF/F7693DFB+2/SM44/DE | 1               | A/C            | Use on 28 V 210L only          |
| PROPELLER        | J3F00451KD         | HC-J3YF-1RF/F7693DFB+2/SM44/DE | 1               | A/C            | Use on 28 V 210L only          |
| BLADE            | F7693DF+2*1        | PCP:BLADE UNIT, ALUM [6,16,11] | 3               | Prop           |                                |
| BLADE            | F7693DFB+2         | PCP:BLADE UNIT, ALUM [6,16,11] | 3               | Prop           | Use on 28 V 210L only          |
| SPINNER          | C-4582-1           | SPINNER ASSEMBLY               | 1               | Prop           |                                |
| SPINNER          | C-4582-1P          | SPINNER ASSEMBLY               | 1               | Prop           |                                |
| SPINNER          | D-5732-P           | SPINNER ASSEMBLY               | 1               | Prop           | Optional                       |
| SPIN MTG KIT     | A-2476-44          | SPINNER - MTG KIT              | 1               | Prop           |                                |
| DE-ICER          | 102811             | DE-ICE BOOT                    | 1               | Blade          | Use on 28 V 210L only          |
| DE-ICE KIT PR    | 103262             | DE-ICE KIT (ONE PROP)          | 1               | Prop           | Use on 28 V 210L only          |
| DE-ICE KIT A/F   | 103307             | AIRFRAME DE-ICE KIT            | 1               | A/C            | Use on 210L S/N 21059503-61141 |
| DE-ICE KIT A/F   | 103308             | AIRFRAME DE-ICE KIT            | 1               | A/C            | Use on 210L S/N 21061142 & up  |
| MTG BOLT/STUD    | A-2429-4           | STUD, MOUNTING, 1/2-20         | 6               | Prop           |                                |

# HARTZELL

## APPLICATION GUIDE

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CESSNA

**Model:** P206(A,B,C,D,E) U206(B,C,D,E,F,G)  
**Trade Name:** Stationair  
**Aircraft T.C./STC:** SA02735CH  
**Propeller Model:** HC-J3YF-1RF  
**Propeller T.C.:** P36EA  
**Blade Model(s):** F7693DF+2\*1  
**Prop Diameter:** 80"-78"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** 12.8 +-0.2  
**Stud Protrusion** 1.450 +-0.030

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number | Description                    | Quantity | Qty Per | Comments  |
|---------------|-------------|--------------------------------|----------|---------|-----------|
| PROPELLER     | J3F00252    | HC-J3YF-1RF/F7693DF+2[*1]/SM44 | 1        | A/C     |           |
| PROPELLER     | J3F00252KD  | HC-J3YF-1RF/F7693DF+2[*1]/SM44 | 1        | A/C     |           |
| BLADE         | F7693DF+2*1 | PCP:BLADE UNIT, ALUM [6,16,11] | 3        | Prop    |           |
| SPINNER       | C-4582-1    | SPINNER ASSEMBLY               | 1        | A/C     | See Notes |
| SPINNER       | C-4582-1P   | SPINNER ASSEMBLY               | 1        | A/C     | See Notes |
| SPIN MTG KIT  | A-2476-44   | SPINNER - MTG KIT              | 1        | Prop    |           |
| MTG BOLT/STUD | A-2429-4    | STUD, MOUNTING, 1/2-20         | 6        | Prop    |           |

**IDS No.:** 2927      **Rev.:** -      **DM Date:** 04/22/2010

**Modifier:** Vitatoo Aviation LLC  
**Engine Model:** IO-550-N  
**Power:** 310 HP @ 2700 RPM  
**Placard/Restr:** None  
**Notes:** Eligible on Atlantic Aero conversion  
 SA02507AT-D

**Startlock Angle:**  
**Feather/High Angle:** 32.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

CESSNA

**Model:** P206(A,B,C,D,E) U206(B,C,D,E,F,G)  
**Trade Name:** Stationair  
**Aircraft T.C./STC:** SA02821CH  
**Propeller Model:** HC-J3YF-1RF  
**Propeller T.C.:** P36EA  
**Blade Model(s):** F7693DF+2\*1  
**Prop Diameter:** 80"-78"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** 12.8 +-0.2  
**Stud Protrusion** 1.450 +-0.030

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number | Description                    | Quantity | Qty Per | Comments  |
|---------------|-------------|--------------------------------|----------|---------|-----------|
| PROPELLER     | J3F00252    | HC-J3YF-1RF/F7693DF+2[*1]/SM44 | 1        | A/C     |           |
| PROPELLER     | J3F00252KD  | HC-J3YF-1RF/F7693DF+2[*1]/SM44 | 1        | A/C     |           |
| BLADE         | F7693DF+2*1 | PCP:BLADE UNIT, ALUM [6,16,11] | 3        | Prop    |           |
| SPINNER       | C-4582-1    | SPINNER ASSEMBLY               | 1        | A/C     | See Notes |
| SPINNER       | C-4582-1P   | SPINNER ASSEMBLY               | 1        | A/C     | See Notes |
| SPIN MTG KIT  | A-2476-44   | SPINNER - MTG KIT              | 1        | Prop    |           |
| MTG BOLT/STUD | A-2429-4    | STUD, MOUNTING, 1/2-20         | 6        | Prop    |           |

**IDS No.:** 2995      **Rev.:** 1      **BC Date:** 07/25/2014

**Modifier:** Hartzell Propeller  
**Engine Model:** IO-550-N  
**Power:** 310 HP @ 2700 RPM  
**Placard/Restr:** None  
**Notes:** Eligible on Atlantic Aero conversion  
 SA02507AT-D

**Startlock Angle:**  
**Feather/High Angle:** 32.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

# HARTZELL

## APPLICATION GUIDE

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CESSNA

**Model:** ( )206( )  
**Trade Name:** Super Skylane, Turbo Stationair  
**Aircraft T.C./STC:** SA02735CH  
**Propeller Model:** HC-J3YF-1RF  
**Propeller T.C.:** P36EA  
**Blade Model(s):** F8068\*4  
**Prop Diameter:** 82" - 78"

**IDS No.:** 2941 **Rev.:** - **DM Date:** 03/05/2010

**Modifier:** Vitatoo Aviation LLC  
**Engine Model:** TSIO-520-C, IO-520-A  
**Power:** 285 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:** TU206F s/n U20602200 thru U20603521, P206, P206A, TP206A (some), P206B thru P206E, TP206B thru TP206E

### Prop Setup:

**Ref. Radius:** 30"  
**Reverse Angle:**  
**Low Pitch Angle:** 12.3+/-0.2  
**Stud Protrusion:** 1.450 +/- .030

**Startlock Angle:**  
**Feather/High Angle:** 32.0+/-1.0  
**Cwt Angle:**

### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| Item Type     | Item Number | Description                   | Quantity | Qty Per | Comments |
|---------------|-------------|-------------------------------|----------|---------|----------|
| PROPELLER     | J3F00552    | HC-J3YF-1RF/F8068[*4]/SM44    | 1        | A/C     |          |
| PROPELLER     | J3F00552KD  | HC-J3YF-1RF/F8068[*4]/SM44    | 1        | A/C     |          |
| BLADE         | F8068*4     | PCP:BLADE UNIT, ALUM [6,16,5] | 3        | Prop    |          |
| SPINNER       | C-4582-1    | SPINNER ASSEMBLY              | 1        | Prop    |          |
| SPINNER       | C-4582-1P   | SPINNER ASSEMBLY              | 1        | Prop    |          |
| SPIN MTG KIT  | A-2476-44   | SPINNER - MTG KIT             | 1        | Prop    |          |
| MTG BOLT/STUD | A-2429-4    | STUD, MOUNTING, 1/2-20        | 6        | Prop    |          |
| MTG BOLT/STUD | A-2429-4    | STUD, MOUNTING, 1/2-20        | 6        | Prop    |          |

CESSNA

**Model:** ( )206( )  
**Trade Name:** Super Skylane, Turbo Stationair  
**Aircraft T.C./STC:** SA02821CH  
**Propeller Model:** HC-J3YF-1RF  
**Propeller T.C.:** P36EA  
**Blade Model(s):** F8068\*4  
**Prop Diameter:** 82" - 78"

**IDS No.:** 3005 **Rev.:** 1 **BC Date:** 07/25/2014

**Modifier:** Hartzell Propeller  
**Engine Model:** TSIO-520-C, IO-520-A  
**Power:** 285 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:** TU206F s/n U20602200 thru U20603521, P206, P206A, TP206A (some), P206B thru P206E, TP206B thru TP206E

### Prop Setup:

**Ref. Radius:** 30"  
**Reverse Angle:**  
**Low Pitch Angle:** 12.3+/-0.2  
**Stud Protrusion:** 1.450 +/- .030

**Startlock Angle:**  
**Feather/High Angle:** 32.0+/-1.0  
**Cwt Angle:**

### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| Item Type     | Item Number | Description                   | Quantity | Qty Per | Comments |
|---------------|-------------|-------------------------------|----------|---------|----------|
| PROPELLER     | J3F00552    | HC-J3YF-1RF/F8068[*4]/SM44    | 1        | A/C     |          |
| PROPELLER     | J3F00552KD  | HC-J3YF-1RF/F8068[*4]/SM44    | 1        | A/C     |          |
| BLADE         | F8068*4     | PCP:BLADE UNIT, ALUM [6,16,5] | 3        | Prop    |          |
| SPINNER       | C-4582-1    | SPINNER ASSEMBLY              | 1        | Prop    |          |
| SPINNER       | C-4582-1P   | SPINNER ASSEMBLY              | 1        | Prop    |          |
| SPIN MTG KIT  | A-2476-44   | SPINNER - MTG KIT             | 1        | Prop    |          |
| MTG BOLT/STUD | A-2429-4    | STUD, MOUNTING, 1/2-20        | 6        | Prop    |          |

# HARTZELL

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CESSNA

**Model:** ( )206( )  
**Trade Name:** Stationair  
**Aircraft T.C./STC:** SA02735CH  
**Propeller Model:** HC-J3YF-1RF  
**Propeller T.C.:** P36EA  
**Blade Model(s):** F8068\*4  
**Prop Diameter:** 82"-78"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** 13.0 +-0.2  
**Stud Protrusion** 1.450 +-0.030

**Non-HPI Items:**

**Non-HPI Spinner:**

**IDS No.:** 2942 **Rev.:** - **DM Date:** 03/05/2010

**Modifier:** Vitatoo Aviation LLC  
**Engine Model:** IO-550-N  
**Power:** 310 HP @ 2700 RPM  
**Placard/Restr:** None  
**Notes:** Eligible on s Atlantic Aero STC SA02507AT-D.

**Startlock Angle:**  
**Feather/High Angle:** 32.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type     | Item Number | Description                   | Quantity | Qty Per | Comments |
|---------------|-------------|-------------------------------|----------|---------|----------|
| PROPELLER     | J3F00551    | HC-J3YF-1RF/F8068[*4]/SM44    | 1        | A/C     |          |
| PROPELLER     | J3F00551KD  | HC-J3YF-1RF/F8068[*4]/SM44    | 1        | A/C     |          |
| BLADE         | F8068*4     | PCP:BLADE UNIT, ALUM [6,16,5] | 3        | Prop    |          |
| SPINNER       | C-4582-1    | SPINNER ASSEMBLY              | 1        | Prop    |          |
| SPINNER       | C-4582-1P   | SPINNER ASSEMBLY              | 1        | Prop    |          |
| SPIN MTG KIT  | A-2476-44   | SPINNER - MTG KIT             | 1        | Prop    |          |
| MTG BOLT/STUD | A-2429-4    | STUD, MOUNTING, 1/2-20        | 6        | Prop    |          |
| MTG BOLT/STUD | A-2429-4    | STUD, MOUNTING, 1/2-20        | 6        | Prop    |          |

CESSNA

**Model:** ( )206( )  
**Trade Name:** Stationair  
**Aircraft T.C./STC:** SA02821CH  
**Propeller Model:** HC-J3YF-1RF  
**Propeller T.C.:** P36EA  
**Blade Model(s):** F8068\*4  
**Prop Diameter:** 82"-78"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** 13.0 +-0.2  
**Stud Protrusion** 1.450 +-0.030

**Non-HPI Items:**

**Non-HPI Spinner:**

**IDS No.:** 3006 **Rev.:** 2 **BC Date:** 07/25/2014

**Modifier:** Hartzell Propeller  
**Engine Model:** IO-550-N  
**Power:** 310 HP @ 2700 RPM  
**Placard/Restr:** None  
**Notes:** Eligible on s Atlantic Aero STC SA02507AT-D.

**Startlock Angle:**  
**Feather/High Angle:** 32.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type     | Item Number | Description                   | Quantity | Qty Per | Comments |
|---------------|-------------|-------------------------------|----------|---------|----------|
| PROPELLER     | J3F00551    | HC-J3YF-1RF/F8068[*4]/SM44    | 1        | A/C     |          |
| PROPELLER     | J3F00551KD  | HC-J3YF-1RF/F8068[*4]/SM44    | 1        | A/C     |          |
| BLADE         | F8068*4     | PCP:BLADE UNIT, ALUM [6,16,5] | 3        | Prop    |          |
| SPINNER       | C-4582-1    | SPINNER ASSEMBLY              | 1        | Prop    |          |
| SPINNER       | C-4582-1P   | SPINNER ASSEMBLY              | 1        | Prop    |          |
| SPIN MTG KIT  | A-2476-44   | SPINNER - MTG KIT             | 1        | Prop    |          |
| MTG BOLT/STUD | A-2429-4    | STUD, MOUNTING, 1/2-20        | 6        | Prop    |          |

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CESSNA

**Model:** TU206G, ( )206( )  
**Trade Name:** Super Skylane, Stationair, Turbo Stationair  
**Aircraft T.C./STC:** SA02735CH  
**Propeller Model:** HC-J3YF-1RF  
**Propeller T.C.:** P36EA  
**Blade Model(s):** F8068\*4  
**Prop Diameter:** 82"-78"

**IDS No.:** 2946      **Rev.:** -      **DM Date:** 03/05/2010  
**Modifier:** Vitatoe Aviation LLC  
**Engine Model:** TSIO-520-M, IO-550-F  
**Power:** 300 HP @ 2700 RPM  
**Placard/Restr:** None  
**Notes:** Eligible on stock TU206G, Texas Skyways STC SA10010SC, Atlantic Aero STC SA00332AT, and Wipaire STC SA1482GL.

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** 13.0 +-0.2  
**Stud Protrusion** 1.450 +-0.030

**Startlock Angle:**  
**Feather/High Angle:** 32.0 +-1.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>            | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|-------------------------------|-----------------|----------------|-----------------|
| PROPELLER        | J3F00551           | HC-J3YF-1RF/F8068[*4]/SM44    | 1               | A/C            |                 |
| PROPELLER        | J3F00551KD         | HC-J3YF-1RF/F8068[*4]/SM44    | 1               | A/C            |                 |
| BLADE            | F8068*4            | PCP:BLADE UNIT, ALUM [6,16,5] | 3               | Prop           |                 |
| SPINNER          | C-4582-1           | SPINNER ASSEMBLY              | 1               | A/C            |                 |
| SPINNER          | C-4582-1P          | SPINNER ASSEMBLY              | 1               | A/C            |                 |
| SPIN MTG KIT     | A-2476-44          | SPINNER - MTG KIT             | 1               | Prop           |                 |
| MTG BOLT/STUD    | A-2429-4           | STUD, MOUNTING, 1/2-20        | 6               | Prop           |                 |
| MTG BOLT/STUD    | A-2429-4           | STUD, MOUNTING, 1/2-20        | 6               | Prop           |                 |

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CESSNA

IDS No.: 3009 Rev.: 1 BC Date: 07/25/2014

**Model:** TU206G, ( )206( )  
**Trade Name:** Super Skylane, Stationair, Turbo Stationair  
**Aircraft T.C./STC:** SA02821CH  
**Propeller Model:** HC-J3YF-1RF  
**Propeller T.C.:** P36EA  
**Blade Model(s):** F8068\*4  
**Prop Diameter:** 82"-78"

**Modifier:** Hartzell Propeller  
**Engine Model:** TSIO-520-M, IO-550-F  
**Power:** 300 HP @ 2700 RPM  
**Placard/Restr:** None  
**Notes:** Eligible on stock TU206G, Texas Skyways STC SA10010SC, Atlantic Aero STC SA00332AT, and Wipaire STC SA1482GL.

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** 13.0 +-0.2  
**Stud Protrusion** 1.450 +-0.030

**Startlock Angle:**  
**Feather/High Angle:** 32.0 +-1.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>            | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|-------------------------------|-----------------|----------------|-----------------|
| PROPELLER        | J3F00551           | HC-J3YF-1RF/F8068[*4]/SM44    | 1               | A/C            |                 |
| PROPELLER        | J3F00551KD         | HC-J3YF-1RF/F8068[*4]/SM44    | 1               | A/C            |                 |
| BLADE            | F8068*4            | PCP:BLADE UNIT, ALUM [6,16,5] | 3               | Prop           |                 |
| SPINNER          | C-4582-1           | SPINNER ASSEMBLY              | 1               | A/C            |                 |
| SPINNER          | C-4582-1P          | SPINNER ASSEMBLY              | 1               | A/C            |                 |
| SPIN MTG KIT     | A-2476-44          | SPINNER - MTG KIT             | 1               | Prop           |                 |
| MTG BOLT/STUD    | A-2429-4           | STUD, MOUNTING, 1/2-20        | 6               | Prop           |                 |

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CESSNA

IDS No.: 2950 Rev.: 2 IC Date: 07/16/2015

Model: P206A-P206E, U206B-U206G

Trade Name:

Aircraft T.C./STC: SA02507AT-D

Propeller Model: PHC-J3YF-1RF

Propeller T.C.: P36EA

Blade Model(s): F8068

Prop Diameter: 82"-78"

### Prop Setup:

Ref. Radius: 30"

Reverse Angle:

Low Pitch Angle: 12.7 +/- 0.2

Stud Protrusion 1.450 +-0.030

Modifier: ATLANTIC AERO

Engine Model: IO-550-N

Power: 310 HP @ 2700 RPM

Placard/Restr:

Notes:

Startlock Angle:

Feather/High Angle: 32.0 +/- 1.0

Cwt Angle:

### Non-HPI Items:

Non-HPI Spinner:

Non-HPI Governor:

### Hartzell Approved Items:

| Item Type     | Item Number     | Description                  | Quantity | Qty Per | Comments                 |
|---------------|-----------------|------------------------------|----------|---------|--------------------------|
| PROPELLER     | J3F10695        | PHC-J3YF-1RF/F8068/SM7       | 1        | A/C     |                          |
| PROPELLER     | J3F10695KD      | PHC-J3YF-1RF/F8068/SM7       | 1        | A/C     |                          |
| BLADE         | F8068           | PCP:BLADE UNIT, ALUM [1,1,5] | 3        | Prop    |                          |
| SPINNER       | A-2295-1        | SPINNER ASSEMBLY             | 1        | Prop    |                          |
| SPINNER       | A-2295-1P       | SPINNER ASSEMBLY             | 1        | Prop    |                          |
| SPINNER       | C-4582          | SPINNER ASSEMBLY             | 1        | Prop    |                          |
| SPINNER       | C-4582-P        | SPINNER ASSEMBLY             | 1        | Prop    |                          |
| SPIN MTG KIT  | A-2476-7        | SPINNER - MTG KIT            | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2429-4        | STUD, MOUNTING, 1/2-20       | 6        | Prop    |                          |
| OVERHAUL KIT  | PHC-J3YF-1RF-OH | O/H KIT                      | 1        | Prop    | For aftermarket use only |

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CESSNA

IDS No.: 2454 Rev.: 4 IC Date: 04/28/2020

Model: (T)206H  
 Trade Name: STATIONAIR  
 Aircraft T.C./STC: SA01878SE  
 Propeller Model: HC-B3TF-7A  
 Propeller T.C.: P15EA  
 Blade Model(s): T10173FN-11R  
 T10173FNK-11R  
 Prop Diameter: 90.375-88.375

Modifier: SOLOY, LLC  
 Engine Model: 250-B17F/2  
 Power: 450 HP @ 2030 RPM  
 Placard/Restr: None  
 Notes:

**Prop Setup:**

Ref. Radius: 30  
 Reverse Angle: -15.0 +-0.5  
 Low Pitch Angle: NA  
 Stud Protrusion

Startlock Angle: NA  
 Feather/High Angle: 81.0 +-1.0  
 Cwt Angle: POSITIVE

**Non-HPI Items:**

Non-HPI Spinner:

Non-HPI Governor:

**Hartzell Approved Items:**

| Item Type                      | Item Number   | Description                   | Quantity | Qty Per | Comments                  |
|--------------------------------|---------------|-------------------------------|----------|---------|---------------------------|
| PROPELLER                      | B3F10055S     | HC-B3TF-7A/T10173FN-11R       | 1        | A/C     |                           |
| PROPELLER                      | B3F10059S     | HC-B3TF-7A/T10173FNK-11R      | 1        | A/C     |                           |
| BLADE                          | T10173FN-11R  | PCP:BLADE UNIT, ALUMINUM      | 3        | Prop    |                           |
| BLADE                          | T10173FNK-11R | PCP:BLADE UNIT, ALUMINUM      | 3        | Prop    |                           |
| SPINNER                        | 835-39EP      | SPINNER ASSEMBLY              | 1        | A/C     |                           |
| SPIN MTG KIT                   | A-3491        | SPINNER - MTG KIT             | 1        | Prop    |                           |
| COUNTERWEIGHT SLUG B-3386-14H  |               | BOLT,3/8-24,HEX HEAD          | 2        | Blade   |                           |
| COUNTERWEIGHT SLUG B-3663-3    |               | PCP:SLUG, COUNTERWEIGHT       | 1        | Blade   |                           |
| COUNTERWEIGHT SLUG B-3834-0632 |               | WASHER                        | 2        | Blade   |                           |
| DE-ICER                        | 4H2824-10     | DE-ICE BOOT                   | 1        | Blade   | Supersedes 7931-4E2824-10 |
| DE-ICE KIT PR                  | 7931-5E2796-1 | DE-ICE KIT (ONE PROP)         | 1        | Prop    |                           |
| MTG BOLT/STUD                  | A-1328-1      | BOLT,MOUNTING,1/2-20,12 POINT | 6        | Prop    |                           |
| MISC ACCES                     | C-3630-2      | PCP:BETA VALVE - ASSEMBLY     | 1        | Prop    |                           |
| OVERHAUL KIT                   | HC-B3TF-7A-OH | O/H KIT                       | 1        | Prop    | For aftermarket use only  |



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CESSNA

**Model:** 206 SERIES  
**Trade Name:** SUPER SKYLANE  
**Aircraft T.C./STC:** STC-SA00512AT  
**Propeller Model:** PHC-C3YF-1RF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** F7691  
**Prop Diameter:** 78.0" TO 77.0"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.0 +-0.1  
**Stud Protrusion** 1.450 +-0.030

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number     | Description                  | Quantity | Qty Per | Comments                 |
|---------------|-----------------|------------------------------|----------|---------|--------------------------|
| PROPELLER     | C3F00023        | PHC-C3YF-1RF/F7691/SM7       | 1        | A/C     |                          |
| BLADE         | F7691           | PCP:BLADE UNIT, ALUM [1,1,5] | 3        | Prop    |                          |
| SPINNER       | A-2295-1P       | SPINNER ASSEMBLY             | 1        | Prop    |                          |
| SPIN MTG KIT  | A-2476-7        | SPINNER - MTG KIT            | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2429-4        | STUD, MOUNTING, 1/2-20       | 6        | Prop    |                          |
| OVERHAUL KIT  | PHC-C3YF-1RF*1  | O/H KIT W/O SLIMSERTS        | 1        | Prop    | For aftermarket use only |
| OVERHAUL KIT  | PHC-C3YF-1RF-OH | O/H KIT                      | 1        | Prop    | For aftermarket use only |

**IDS No.:** 1107 **Rev.:** 1 **IC Date:** 07/16/2015

**Modifier:** DAVIS AVIATION SERVICES  
**Engine Model:** IO-520-A  
**Power:** 285 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 31.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

CESSNA

**Model:** 206 SERIES  
**Trade Name:** SUPER SKYLANE  
**Aircraft T.C./STC:** STC-SA00512AT  
**Propeller Model:** PHC-C3YF-1RF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** F8468A-6R  
**Prop Diameter:** 80.0" TO 77.0"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 11.4 +-0.1  
**Stud Protrusion** 1.450 +-0.030

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number     | Description                  | Quantity | Qty Per | Comments                                   |
|---------------|-----------------|------------------------------|----------|---------|--|
| PROPELLER     | C3F00891        | PHC-C3YF-1RF/F8468A-6R/SM7   | 1        | A/C     |  |
| BLADE         | F8468A-6R       | PCP:BLADE UNIT, ALUM [1,1,1] | 3        | Prop    |  |
| SPINNER       | A-2295-1        | SPINNER ASSEMBLY             | 1        | Prop    |  |
| SPINNER       | A-2295-1P       | SPINNER ASSEMBLY             | 1        | Prop    |  |
| SPIN MTG KIT  | A-2476-7        | SPINNER - MTG KIT            | 1        | Prop    |  |
| MTG BOLT/STUD | A-2429-4        | STUD, MOUNTING, 1/2-20       | 6        | Prop    | Used with E-7154-2R Hub Only               |
| MTG BOLT/STUD | A-2429-7        | STUD, MOUNTING, 1/2-20       | 6        | Prop    | Use with E-7154-12R & E-7154-42R hubs only |
| OVERHAUL KIT  | PHC-C3YF-1RF*1  | O/H KIT W/O SLIMSERTS        | 1        | Prop    | For aftermarket use only                   |
| OVERHAUL KIT  | PHC-C3YF-1RF-OH | O/H KIT                      | 1        | Prop    | For aftermarket use only                   |

**IDS No.:** 1108 **Rev.:** 2 **IC Date:** 07/16/2015

**Modifier:** DAVIS AVIATION SERVICES  
**Engine Model:** IO-520-A  
**Power:** 285 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 31.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

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CESSNA

**Model:** 206 SERIES  
**Trade Name:** SUPER SKYLANE  
**Aircraft T.C./STC:** STC-SA00512AT  
**Propeller Model:** PHC-J3YF-1RF  
**Propeller T.C.:** P36EA  
**Blade Model(s):** F7691  
**Prop Diameter:** 78.0" TO 77.0"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.0 +-0.1  
**Stud Protrusion** 1.450 +-0.030

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 1109      **Rev.:** -      **DM Date:** 11/18/1997

**Modifier:** DAVIS AVIATION SERVICES  
**Engine Model:** IO-520-A  
**Power:** 285 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 31.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>           | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|------------------------------|-----------------|----------------|-----------------|
| BLADE            | F7691              | PCP:BLADE UNIT, ALUM [1,1,5] | 3               | Prop           |                 |
| SPINNER          | C-4582-P           | SPINNER ASSEMBLY             | 1               | Prop           |                 |
| SPIN MTG KIT     | A-2476-7           | SPINNER - MTG KIT            | 1               | Prop           |                 |
| MTG BOLT/STUD    | A-2429-4           | STUD, MOUNTING, 1/2-20       | 6               | Prop           |                 |

CESSNA

**Model:** 206 SERIES  
**Trade Name:** SUPER SKYLANE  
**Aircraft T.C./STC:** STC-SA00512AT  
**Propeller Model:** PHC-J3YF-1RF  
**Propeller T.C.:** P36EA  
**Blade Model(s):** F8468A-6R  
**Prop Diameter:** 80.0" TO 78.0"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 11.4 +-0.1  
**Stud Protrusion** 1.450 +-0.030

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 1110      **Rev.:** -      **DM Date:** 11/18/1997

**Modifier:** DAVIS AVIATION SERVICES  
**Engine Model:** IO-520-A  
**Power:** 285 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 31.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>           | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|------------------------------|-----------------|----------------|-----------------|
| BLADE            | F8468A-6R          | PCP:BLADE UNIT, ALUM [1,1,1] | 3               | Prop           |                 |
| SPINNER          | C-4582-P           | SPINNER ASSEMBLY             | 1               | Prop           |                 |
| SPIN MTG KIT     | A-2476-7           | SPINNER - MTG KIT            | 1               | Prop           |                 |
| MTG BOLT/STUD    | A-2429-4           | STUD, MOUNTING, 1/2-20       | 6               | Prop           |                 |

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**CESSNA**

**Model:** U206B-U206G  
**Trade Name:**  
**Aircraft T.C./STC:** SA10070SC  
**Propeller Model:** HC-C3YF-1RF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** F8068-2  
**Prop Diameter:** 80"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** 11.8 +/- 0.2  
**Stud Protrusion** 1.450 +-0.030

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number    | Description                  | Quantity | Qty Per | Comments                 |
|---------------|----------------|------------------------------|----------|---------|--------------------------|
| PROPELLER     | C3F07552       | HC-C3YF-1RF/F8068-2/SM7      | 1        | A/C     |                          |
| PROPELLER     | C3F07552KD     | HC-C3YF-1RF/F8068-2/SM7      | 1        | A/C     |                          |
| BLADE         | F8068-2        | PCP:BLADE UNIT, ALUM [1,1,5] | 3        | Prop    |                          |
| SPINNER       | D-5732-P       | SPINNER ASSEMBLY             | 1        | Prop    |                          |
| GOVERNOR      | S-1-28         | GOVERNOR ASSEMBLY, S-1-28    | 1        | A/C     |                          |
| SPIN MTG KIT  | A-2476-7       | SPINNER - MTG KIT            | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2429-4       | STUD, MOUNTING, 1/2-20       | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-C3YF-1RF-OH | O/H KIT                      | 1        | Prop    | For aftermarket use only |
| OVERHAUL KIT  | HC-C3YR-1RF-OH | O/H KIT                      | 1        | Prop    | For aftermarket use only |

**IDS No.:** 3079      **Rev.:** 1      **IC Date:** 07/16/2015

**Modifier:** Texas Skyways  
**Engine Model:** IO-520-F  
**Power:** 300 HP @ 2850 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:**  
**Feather/High Angle:** 32.0 +/- 1.0  
**Cwt Angle:**

**Non-HPI Governor:**

**CESSNA**

**Model:** 206H  
**Trade Name:** STATIONAIR  
**Aircraft T.C./STC:** SA01185CH  
**Propeller Model:** HC-F3YR-1RF  
**Propeller T.C.:** P31EA  
**Blade Model(s):** F8468A-2R  
**Prop Diameter:** 84" TO 78"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 11.2 +/-0.2  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number    | Description                  | Quantity | Qty Per | Comments                 |
|---------------|----------------|------------------------------|----------|---------|--------------------------|
| PROPELLER     | F3R00011       | HC-F3YR-1RF/F8468A-2R/SM23   | 1        | A/C     |                          |
| BLADE         | F8468A-2R      | PCP:BLADE UNIT, ALUM [1,1,1] | 3        | Prop    |                          |
| SPINNER       | D-4578-1P      | SPINNER ASSEMBLY             | 1        | Prop    |                          |
| SPIN MTG KIT  | A-2476-23      | SPINNER - MTG KIT            | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2067         | STUD, MOUNTING, 1/2-20       | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-F3YR-1RF-OH | O/H KIT                      | 1        | Prop    | For aftermarket use only |

**IDS No.:** 1707      **Rev.:** 2      **IC Date:** 07/16/2015

**Modifier:** WIPAIRE, INC  
**Engine Model:** IO-540-AC1A  
**Power:** 300 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 30.0 +/-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

# HARTZELL

## APPLICATION GUIDE

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CESSNA

IDS No.: 1102 Rev.: 1 BC Date: 07/28/2014

**Model:** P206, P206(A-E)  
**Trade Name:** SUPER SKYLANE  
**Aircraft T.C./STC:** STC-SA685AL  
**Propeller Model:** PHC-J3YF-1RF  
**Propeller T.C.:** P36EA  
**Blade Model(s):** F8468A-6R  
 F8468A-8R  
**Prop Diameter:** 80.0" TO 77.0"

**Modifier:** HARTZELL PROPELLER  
**Engine Model:** IO-520-A  
**Power:** 285 HP @ 2700 RPM  
**Placard/Restr:**

**Notes:** For P206A, replaces McCauley C73 and C88

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 11.5 +-0.2  
**Stud Protrusion** 1.450 +-0.030

**Startlock Angle:** NA  
**Feather/High Angle:** 32.0 +-1.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>           | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|------------------------------|-----------------|----------------|-----------------|
| BLADE            | F8468A-6R          | PCP:BLADE UNIT, ALUM [1,1,1] | 3               | Prop           |                 |
| BLADE            | F8468A-8R          | PCP:BLADE UNIT, ALUM [1,1,1] | 3               | Prop           |                 |
| SPINNER          | C-4582             | SPINNER ASSEMBLY             | 1               | Prop           |                 |
| SPINNER          | C-4582-P           | SPINNER ASSEMBLY             | 1               | Prop           |                 |
| SPIN MTG KIT     | A-2476-9           | SPINNER - MTG KIT            | 1               | Prop           |                 |
| MTG BOLT/STUD    | A-2429-4           | STUD, MOUNTING, 1/2-20       | 6               | Prop           |                 |

# HARTZELL

## APPLICATION GUIDE

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CESSNA

IDS No.: 3087 Rev.: 7 IC Date: 01/04/2022

**Model:** T206H  
**Trade Name:** Turbo Stationair  
**Aircraft T.C./STC:** SA03162CH  
**Propeller Model:** HC-F3YR-1ARF  
**Propeller T.C.:** P31EA  
**Blade Model(s):** F8068\*4  
 F8068K\*2  
**Prop Diameter:** 82" - 80"

**Modifier:** Hartzell Propeller  
**Engine Model:** TIO-540-AJ1A  
**Power:** 310 HP @ 2500 RPM  
**Placard/Restr:**  
**Notes:**

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** 15.0 +/- 0.2  
**Stud Protrusion**

**Startlock Angle:**  
**Feather/High Angle:** 32.0 +/- 1.0  
**Cwt Angle:**

### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| Item Type     | Item Number     | Description                   | Quantity | Qty Per | Comments                 |
|---------------|-----------------|-------------------------------|----------|---------|--------------------------|
| PROPELLER     | F3R00601        | HC-F3YR-1ARF/F8068[*4]/SM35   | 1        | A/C     |                          |
| PROPELLER     | F3R00601KD      | HC-F3YR-1ARF/F8068[*4]/SM35   | 1        | A/C     |                          |
| PROPELLER     | F3R00651        | HC-F3YR-1ARF/F8068K[*2]/SM35  | 1        | A/C     |                          |
| PROPELLER     | F3R00651KD      | HC-F3YR-1ARF/F8068K[*2]/SM35  | 1        | A/C     |                          |
| BLADE         | F8068*4         | PCP:BLADE UNIT, ALUM [6,16,5] | 3        | Prop    |                          |
| BLADE         | F8068K*2        | PCP:BLADE UNIT, ALUM [6,16,5] | 3        | Prop    |                          |
| SPINNER       | D-4578-1        | SPINNER ASSEMBLY              | 1        | Prop    |                          |
| SPINNER       | D-4578-1P       | SPINNER ASSEMBLY              | 1        | Prop    |                          |
| SPIN MTG KIT  | A-2476-35       | SPINNER - MTG KIT             | 1        | Prop    |                          |
| DE-ICER       | 102657          | DE-ICE BOOT                   | 1        | Blade   |                          |
| DE-ICE KIT PR | 104522          | DE-ICE KIT (ONE PROP)         | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2067          | STUD, MOUNTING, 1/2-20        | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-F3YR-1ARF-OH | O/H KIT                       | 1        | Prop    | For aftermarket use only |

# HARTZELL

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CESSNA

**Model:** T206H  
**Trade Name:** TURBO STATIONAIR  
**Aircraft T.C./STC:** SA01185CH  
**Propeller Model:** HC-F3YR-1RF  
**Propeller T.C.:** P31EA  
**Blade Model(s):** F8468A-2R  
**Prop Diameter:** 84" TO 78"

**IDS No.:** 1708      **Rev.:** 3      **IC Date:** 01/18/2022

**Modifier:** WIPAIRE, INC  
**Engine Model:** TIO-540-AJ1A  
**Power:** 310 HP @ 2500 RPM  
**Placard/Restr:**  
**Notes:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 15 +/-0.2  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 30.0 +/-1.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type     | Item Number    | Description                  | Quantity | Qty Per | Comments                 |
|---------------|----------------|------------------------------|----------|---------|--------------------------|
| PROPELLER     | F3R00012       | HC-F3YR-1RF/F8468A-2R/SM23   | 1        | A/C     |                          |
| BLADE         | F8468A-2R      | PCP:BLADE UNIT, ALUM [1,1,1] | 3        | Prop    |                          |
| SPINNER       | D-4578-1P      | SPINNER ASSEMBLY             | 1        | Prop    |                          |
| SPIN MTG KIT  | A-2476-23      | SPINNER - MTG KIT            | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2067         | STUD, MOUNTING, 1/2-20       | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-F3YR-1RF-OH | O/H KIT                      | 1        | Prop    | For aftermarket use only |

CESSNA

**Model:** TU206(A-F), TP206A, T207A, TU206(A-F)  
**Trade Name:** SKYWAGON, SUPER SKYWAGON  
**Aircraft T.C./STC:** SA10615SC  
**Propeller Model:** PHC-C3YF-1RF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** F7693F+2  
**Prop Diameter:** 80-78

**IDS No.:** 2707      **Rev.:** 2      **IC Date:** 07/16/2015

**Modifier:** RAM AIRCRAFT INC.  
**Engine Model:** TSIO-520-R  
**Power:** 310 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** 14.0 +/-0.2  
**Stud Protrusion** 1.450 +/-0.030

**Startlock Angle:**  
**Feather/High Angle:** 31.0 +/-1.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:** WOODWARD OR  
MCCAULEY

**Hartzell Approved Items:**

| Item Type     | Item Number     | Description                    | Quantity | Qty Per | Comments                                   |
|---------------|-----------------|--------------------------------|----------|---------|--|
| PROPELLER     | C3F00156        | PHC-C3YF-1RF/F7693F+2/SM30     | 1        | A/C     |  |
| BLADE         | F7693F+2        | PCP:BLADE UNIT, ALUM [6,15,11] | 3        | Prop    |  |
| SPINNER       | A-2295-1        | SPINNER ASSEMBLY               | 1        | A/C     |  |
| SPINNER       | A-2295-1P       | SPINNER ASSEMBLY               | 1        | A/C     |  |
| SPIN MTG KIT  | A-2476-30       | SPINNER - MTG KIT              | 1        | Prop    |  |
| MTG BOLT/STUD | A-2429-4        | STUD, MOUNTING, 1/2-20         | 6        | Prop    | Use w/E-7154-2R Hub Only                   |
| MTG BOLT/STUD | A-2429-7        | STUD, MOUNTING, 1/2-20         | 6        | Prop    | Use with E-7154-12R & E-7154-42R hubs only |
| OVERHAUL KIT  | PHC-C3YF-1RF*1  | O/H KIT W/O SLIMSERTS          | 1        | Prop    | For aftermarket use only                   |
| OVERHAUL KIT  | PHC-C3YF-1RF-OH | O/H KIT                        | 1        | Prop    | For aftermarket use only                   |

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CESSNA

**Model:** TP206(A-E)  
**Trade Name:** SUPER SKYLANE  
**Aircraft T.C./STC:** STC-SA685AL  
**Propeller Model:** PHC-J3YF-1RF  
**Propeller T.C.:** P36EA  
**Blade Model(s):** F8468A-6R  
 F8468A-8R  
**Prop Diameter:** 80.0" TO 77.0"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 11.5 +-0.2  
**Stud Protrusion** 1.450 +-0.030

**IDS No.:** 1137 **Rev.:** 1 **BC Date:** 07/28/2014

**Modifier:** HARTZELL PROPELLER  
**Engine Model:** TSIO-520-C  
**Power:** 285 HP @ 2700 RPM  
**Placard/Restr:**

**Notes:** For TP206A, replaces McCauley C70, C77 and C88

**Startlock Angle:** NA  
**Feather/High Angle:** 32.0 +-1.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type     | Item Number | Description                  | Quantity | Qty Per | Comments |
|---------------|-------------|------------------------------|----------|---------|----------|
| BLADE         | F8468A-6R   | PCP:BLADE UNIT, ALUM [1,1,1] | 3        | Prop    |          |
| BLADE         | F8468A-8R   | PCP:BLADE UNIT, ALUM [1,1,1] | 3        | Prop    |          |
| SPINNER       | C-4582      | SPINNER ASSEMBLY             | 1        | Prop    |          |
| SPINNER       | C-4582-P    | SPINNER ASSEMBLY             | 1        | Prop    |          |
| SPIN MTG KIT  | A-2476-9    | SPINNER - MTG KIT            | 1        | Prop    |          |
| MTG BOLT/STUD | A-2429-4    | STUD, MOUNTING, 1/2-20       | 6        | Prop    |          |

CESSNA

**Model:** TP206(A-E)  
**Trade Name:** SUPER SKYLANE  
**Aircraft T.C./STC:** STC-SA685AL  
**Propeller Model:** (P)HC-C3YF-1RF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** F8468A-6R  
 F8468A-8R  
**Prop Diameter:** 80.0" TO 77.0"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 11.5 +-0.2  
**Stud Protrusion** 1.450 +-0.030

**IDS No.:** 1128 **Rev.:** 1 **BC Date:** 07/28/2014

**Modifier:** HARTZELL PROPELLER  
**Engine Model:** TSIO-520-C  
**Power:** 285 HP @ 2700 RPM  
**Placard/Restr:**

**Notes:** Replaces McCauley C78, C79 and JC90

**Startlock Angle:** NA  
**Feather/High Angle:** 32.0 +-1.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type     | Item Number | Description                  | Quantity | Qty Per | Comments |
|---------------|-------------|------------------------------|----------|---------|----------|
| BLADE         | F8468A-6R   | PCP:BLADE UNIT, ALUM [1,1,1] | 3        | Prop    |          |
| BLADE         | F8468A-8R   | PCP:BLADE UNIT, ALUM [1,1,1] | 3        | Prop    |          |
| SPINNER       | A-2295-1P   | SPINNER ASSEMBLY             | 1        | Prop    |          |
| SPIN MTG KIT  | A-2476-30   | SPINNER - MTG KIT            | 1        | Prop    |          |
| MTG BOLT/STUD | A-2429-4    | STUD, MOUNTING, 1/2-20       | 6        | Prop    |          |

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CESSNA

IDS No.: 1127 Rev.: 3 IC Date: 07/16/2015

**Model:** TU206(A-F)  
**Trade Name:** SUPER SKYLANE  
**Aircraft T.C./STC:** STC-SA685AL  
**Propeller Model:** PHC-C3YF-1RF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** F8468A-6R  
**Prop Diameter:** 80.0" TO 77.0"

**Modifier:** HARTZELL PROPELLER  
**Engine Model:** TSIO-520-C  
**Power:** 285 HP @ 2700 RPM  
**Placard/Restr:**

**Notes:** Eligible for TU206F up to S/N 2199

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 11.5 +-0.2  
**Stud Protrusion** 1.450 +-0.030

**Startlock Angle:** NA  
**Feather/High Angle:** 32.0 +-1.0  
**Cwt Angle:**

### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>           | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>                            |
|------------------|--------------------|------------------------------|-----------------|----------------|--|
| PROPELLER        | C3F00137           | PHC-C3YF-1RF/F8468A-6R/SM30  | 1               | A/C            |  |
| PROPELLER        | C3F00137KD         | PHC-C3YF-1RF/F8468A-6R/SM30  | 1               | A/C            |  |
| PROPELLER        | C3F00137SKDTP      | C3F00137/SM30/A-2295-1P      | 1               | A/C            |  |
| PROPELLER        | C3F00137STP        | C3F00137/SM30/A-2295-1P      | 1               | A/C            |  |
| BLADE            | F8468A-6R          | PCP:BLADE UNIT, ALUM [1,1,1] | 3               | Prop           |  |
| SPINNER          | A-2295-1P          | SPINNER ASSEMBLY             | 1               | Prop           |  |
| SPIN MTG KIT     | A-2476-30          | SPINNER - MTG KIT            | 1               | Prop           |  |
| MTG BOLT/STUD    | A-2429-4           | STUD, MOUNTING, 1/2-20       | 6               | Prop           | Use w/E-7154-2R Hub Only                   |
| MTG BOLT/STUD    | A-2429-7           | STUD, MOUNTING, 1/2-20       | 6               | Prop           | Use with E-7154-12R & E-7154-42R hubs only |
| OVERHAUL KIT     | PHC-C3YF-1RF*1     | O/H KIT W/O SLIMSERTS        | 1               | Prop           | For aftermarket use only                   |
| OVERHAUL KIT     | PHC-C3YF-1RF-OH    | O/H KIT                      | 1               | Prop           | For aftermarket use only                   |



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**CESSNA**

**Model:** TP206(A-E), TU206(A-G)  
**Trade Name:** SUPER SKYLANE  
**Aircraft T.C./STC:** STC-SA01300AT  
**Propeller Model:** PHC-C3YF-1RF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** F7691  
**Prop Diameter:** 78.0" TO 77.0"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.4 +-0.1  
**Stud Protrusion** 1.450 +-0.030

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number     | Description                  | Quantity | Qty Per | Comments                                   |
|---------------|-----------------|------------------------------|----------|---------|--|
| PROPELLER     | C3F00027        | PHC-C3YF-1RF/F7691/SM7       | 1        | A/C     |  |
| BLADE         | F7691           | PCP:BLADE UNIT, ALUM [1,1,5] | 3        | Prop    |  |
| SPINNER       | A-2295-1P       | SPINNER ASSEMBLY             | 1        | Prop    |  |
| SPIN MTG KIT  | A-2476-7        | SPINNER - MTG KIT            | 1        | Prop    |  |
| MTG BOLT/STUD | A-2429-4        | STUD, MOUNTING, 1/2-20       | 6        | Prop    | Use w/E-7154-2R Hub Only                   |
| MTG BOLT/STUD | A-2429-7        | STUD, MOUNTING, 1/2-20       | 6        | Prop    | Use with E-7154-12R & E-7154-42R hubs only |
| OVERHAUL KIT  | PHC-C3YF-1RF*1  | O/H KIT W/O SLIMSERTS        | 1        | Prop    | For aftermarket use only                   |
| OVERHAUL KIT  | PHC-C3YF-1RF-OH | O/H KIT                      | 1        | Prop    | For aftermarket use only                   |

**IDS No.:** 1112      **Rev.:** 2      **IC Date:** 07/16/2015

**Modifier:** DAVIS AVIATION SERVICES  
**Engine Model:** IO-550-F  
**Power:** 300 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 31.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

**CESSNA**

**Model:** TP206(A-E), TU206(A-G)  
**Trade Name:** SUPER SKYLANE  
**Aircraft T.C./STC:** STC-SA01300AT  
**Propeller Model:** PHC-C3YF-1RF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** F8468A-6R  
**Prop Diameter:** 78.0" TO 77.0"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 11.7 +-0.1  
**Stud Protrusion** 1.450 +-0.030

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number | Description                  | Quantity | Qty Per | Comments |
|---------------|-------------|------------------------------|----------|---------|----------|
| BLADE         | F8468A-6R   | PCP:BLADE UNIT, ALUM [1,1,1] | 3        | Prop    |          |
| SPINNER       | A-2295-1P   | SPINNER ASSEMBLY             | 1        | Prop    |          |
| SPIN MTG KIT  | A-2476-7    | SPINNER - MTG KIT            | 1        | Prop    |          |
| MTG BOLT/STUD | A-2429-4    | STUD, MOUNTING, 1/2-20       | 6        | Prop    |          |

**IDS No.:** 1480      **Rev.:** -      **DM Date:** 02/03/2005

**Modifier:** DAVIS AVIATION SERVICES  
**Engine Model:** IO-550-F  
**Power:** 300 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 31.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

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**CESSNA**

**Model:** TP206(A-E), TU206(A-G)  
**Trade Name:** SUPER SKYLANE  
**Aircraft T.C./STC:** STC-SA01300AT  
**Propeller Model:** PHC-J3YF-1RF  
**Propeller T.C.:** P36EA  
**Blade Model(s):** F7691  
**Prop Diameter:** 78.0" TO 77.0"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.4 +-0.1  
**Stud Protrusion** 1.450 +-0.030

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number     | Description                  | Quantity | Qty Per | Comments                 |
|---------------|-----------------|------------------------------|----------|---------|--------------------------|
| PROPELLER     | J3F00037        | PHC-J3YF-1RF/F7691/SM7       | 1        | A/C     |                          |
| BLADE         | F7691           | PCP:BLADE UNIT, ALUM [1,1,5] | 3        | Prop    |                          |
| SPINNER       | C-4582-P        | SPINNER ASSEMBLY             | 1        | Prop    |                          |
| SPIN MTG KIT  | A-2476-7        | SPINNER - MTG KIT            | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2429-4        | STUD, MOUNTING, 1/2-20       | 6        | Prop    |                          |
| OVERHAUL KIT  | PHC-J3YF-1RF-OH | O/H KIT                      | 1        | Prop    | For aftermarket use only |

**IDS No.:** 1121      **Rev.:** 1      **IC Date:** 07/16/2015

**Modifier:** DAVIS AVIATION SERVICES  
**Engine Model:** IO-550-F  
**Power:** 300 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 31.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

**CESSNA**

**Model:** TP206(A-E), TU206(A-G)  
**Trade Name:** SUPER SKYLANE  
**Aircraft T.C./STC:** STC-SA01300AT  
**Propeller Model:** PHC-J3YF-1RF  
**Propeller T.C.:** P36EA  
**Blade Model(s):** F8468A-6R  
**Prop Diameter:** 80.0" TO 78.0"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 11.7 +-0.1  
**Stud Protrusion** 1.450 +-0.030

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number | Description                  | Quantity | Qty Per | Comments |
|---------------|-------------|------------------------------|----------|---------|----------|
| BLADE         | F8468A-6R   | PCP:BLADE UNIT, ALUM [1,1,1] | 3        | Prop    |          |
| SPINNER       | C-4582-P    | SPINNER ASSEMBLY             | 1        | Prop    |          |
| SPIN MTG KIT  | A-2476-7    | SPINNER - MTG KIT            | 1        | Prop    |          |
| MTG BOLT/STUD | A-2429-4    | STUD, MOUNTING, 1/2-20       | 6        | Prop    |          |

**IDS No.:** 1481      **Rev.:** -      **DM Date:** 02/03/2005

**Modifier:** DAVIS AVIATION SERVICES  
**Engine Model:** IO-550-F  
**Power:** 300 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 31.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

# HARTZELL

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CESSNA

**Model:** TP206(A-E), TU206(A-G)  
**Trade Name:** SUPER SKYLANE  
**Aircraft T.C./STC:** STC-SA4111SW  
**Propeller Model:** PHC-J3YF-1RF  
**Propeller T.C.:** P36EA  
**Blade Model(s):** F7663-2Q  
F7663D-2Q  
**Prop Diameter:** 76" NO REDUCTION ALLOWED

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 15.2 +-0.1  
**Stud Protrusion** 1.450 +-0.030

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 395      **Rev.:** -      **DM Date:** 03/01/2007

**Modifier:** RAM AIRCRAFT CORP.

**Engine Model:** TSIO-520, -C, -M

**Power:** 310 HP @ 2700 RPM

**Placard/Restr:**

**Notes:** Engine Ratings Note: TSIO-520,-C (285hp)

**Startlock Angle:** NA

**Feather/High Angle:** 36.0 +-1.0

**Cwt Angle:**

**Non-HPI Governor:** WOODWARD G210452

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>       | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|--------------------------|-----------------|----------------|-----------------|
| BLADE            | F7663-2Q           | PCP:BLADE UNIT, ALUMINUM | 3               | Prop           |                 |
| BLADE            | F7663D-2Q          | PCP:BLADE UNIT, ALUMINUM | 3               | Prop           |                 |
| SPINNER          | C-4582             | SPINNER ASSEMBLY         | 1               | Prop           |                 |
| SPIN MTG KIT     | A-2476-9           | SPINNER - MTG KIT        | 1               | Prop           |                 |
| MTG BOLT/STUD    | A-2429-4           | STUD, MOUNTING, 1/2-20   | 6               | Prop           |                 |

# HARTZELL

## APPLICATION GUIDE 159

CESSNA

IDS No.: 1126      Rev.: 2      IC      Date: 07/16/2015

**Model:** U206(B-G)  
**Trade Name:** SUPER SKYLANE  
**Aircraft T.C./STC:** STC-SA685AL  
**Propeller Model:** HC-C3YF-1RF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** F8468A-8R  
                                  F8468A-8R\*1  
**Prop Diameter:** 78" to 77"

**Modifier:** HARTZELL PROPELLER  
**Engine Model:** IO-520-F  
**Power:** 300 HP @ 2850 RPM  
**Placard/Restr:**

**Notes:** Eligible for U206G up to S/N 4074; Install spinner mounting kit per instructions in STC

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 10.0 +-0.2  
**Stud Protrusion** 1.450 +-0.030

**Startlock Angle:** NA  
**Feather/High Angle:** 32.0 +-1.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>           | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|------------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | C3F00050           | HC-C3YF-1RF/F8468A-8R/SM30   | 1               | A/C            |                          |
| PROPELLER        | C3F00050KD         | HC-C3YF-1RF/F8468A-8R/SM30   | 1               | A/C            |                          |
| PROPELLER        | C3F00050SKDTP*1    | C3F00050/SM30/A-2295-1P      | 1               | A/C            |                          |
| PROPELLER        | C3F00050STP*1      | C3F00050/SM30/A-2295-1P      | 1               | A/C            |                          |
| BLADE            | F8468A-8R          | PCP:BLADE UNIT, ALUM [1,1,1] | 3               | Prop           |                          |
| BLADE            | F8468A-8R*1        | IDS ITEM, BLADE, [3,1,1]     | 3               | Prop           |                          |
| SPINNER          | A-2295-1           | SPINNER ASSEMBLY             | 1               | Prop           |                          |
| SPINNER          | A-2295-1P          | SPINNER ASSEMBLY             | 1               | Prop           |                          |
| SPIN MTG KIT     | A-2476-30          | SPINNER - MTG KIT            | 1               | Prop           |                          |
| MTG BOLT/STUD    | A-2429-4           | STUD, MOUNTING, 1/2-20       | 6               | Prop           |                          |
| OVERHAUL KIT     | HC-C3YF-1RF-OH     | O/H KIT                      | 1               | Prop           | For aftermarket use only |

# HARTZELL

## APPLICATION GUIDE

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CESSNA

IDS No.: 1136 Rev.: 2 IC Date: 07/16/2015

**Model:** TU206(F, G), P206 THRU P206E, TP206A THRU TP206E

**Modifier:** HARTZELL PROPELLER

**Trade Name:** SUPER SKYLANE

**Engine Model:** TSIO-520-(C, M)

**Aircraft T.C./STC:** STC-SA685AL

**Power:** 310 HP @ 2700 RPM

**Propeller Model:** PHC-J3YF-1RF

**Placard/Restr:**

**Propeller T.C.:** P36EA

**Notes:** Engine Ratings Note: TSIO-520-C (285hp) Eligible for TU206F from S/N 2200 thru 3521 TU206F uses TSIO-520-C, TU206G uses TSIO-520-M

**Blade Model(s):** F8468A-6R  
F8468A-6R\*1  
F8468A-8R  
F8468A-8R\*1

**Prop Diameter:** 80" to 77"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 11.5 +-0.2  
**Stud Protrusion** 1.450 +-0.030

**Startlock Angle:** NA  
**Feather/High Angle:** 32.0 +-1.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type     | Item Number     | Description                  | Quantity | Qty Per | Comments                 |
|---------------|-----------------|------------------------------|----------|---------|--------------------------|
| PROPELLER     | J3F00011        | PHC-J3YF-1RF/F8468A-8R/SM9   | 1        | A/C     |                          |
| PROPELLER     | J3F00011KD      | PHC-J3YF-1RF/F8468A-8R/SM9   | 1        | A/C     |                          |
| PROPELLER     | J3F00011SKDTP   | J3F00011/SM9/C-4582-P        | 1        | A/C     |                          |
| PROPELLER     | J3F00011STP     | J3F00011/SM9/C-4582-P        | 1        | A/C     |                          |
| PROPELLER     | J3F00012        | PHC-J3YF-1RF/F8468A-6R/SM9   | 1        | A/C     |                          |
| PROPELLER     | J3F00012KD      | PHC-J3YF-1RF/F8468A-6R/SM9   | 1        | A/C     |                          |
| PROPELLER     | J3F00012SKDTP   | J3F00012/SM9/C-4582-P        | 1        | A/C     |                          |
| PROPELLER     | J3F00012STP     | J3F00012/SM9/C-4582-P        | 1        | A/C     |                          |
| BLADE         | F8468A-6R       | PCP:BLADE UNIT, ALUM [1,1,1] | 3        | Prop    |                          |
| BLADE         | F8468A-6R*1     | PCP:BLADE UNIT, ALUM [3,1,1] | 3        | Prop    |                          |
| BLADE         | F8468A-8R       | PCP:BLADE UNIT, ALUM [1,1,1] | 3        | Prop    |                          |
| BLADE         | F8468A-8R*1     | IDS ITEM, BLADE, [3,1,1]     | 3        | Prop    |                          |
| SPINNER       | C-4582          | SPINNER ASSEMBLY             | 1        | Prop    |                          |
| SPINNER       | C-4582-P        | SPINNER ASSEMBLY             | 1        | Prop    |                          |
| SPIN MTG KIT  | A-2476-9        | SPINNER - MTG KIT            | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2429-4        | STUD, MOUNTING, 1/2-20       | 6        | Prop    |                          |
| OVERHAUL KIT  | PHC-J3YF-1RF-OH | O/H KIT                      | 1        | Prop    | For aftermarket use only |

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**CESSNA**

**Model:** U206G, TU206G  
**Trade Name:** SUPER SKYLANE  
**Aircraft T.C./STC:** STC SA2353NM  
**Propeller Model:** HC-C3YN-5A  
**Propeller T.C.:** P25EA  
**Blade Model(s):** FC9587D-2  
**Prop Diameter:** 95" TO 93"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 5.0 +-0.2  
**Stud Protrusion** 1.580 +-0.030

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number   | Description               | Quantity | Qty Per | Comments                 |
|---------------|---------------|---------------------------|----------|---------|--------------------------|
| PROPELLER     | C3N00210      | HC-C3YN-5A/FC9587D-2/SM23 | 1        | A/C     |                          |
| PROPELLER     | C3N00210KD    | HC-C3YN-5A/FC9587D-2/SM23 | 1        | A/C     |                          |
| BLADE         | FC9587D-2     | PCP:BLADE UNIT, ALUMINUM  | 3        | Prop    |                          |
| SPINNER       | D-1649        | SPINNER ASSEMBLY          | 1        | Prop    |                          |
| SPIN MTG KIT  | A-2476-23     | SPINNER - MTG KIT         | 1        | Prop    |                          |
| COUNTERWEIGHT | B-3202H-6     | PCP:COUNTERWEIGHT         | 1        | Blade   | Blade Component          |
| MTG BOLT/STUD | A-3254        | STUD, MOUNTING, 9/16-18   | 8        | Prop    |                          |
| OVERHAUL KIT  | HC-C3YN-5A-OH | O/H KIT                   | 1        | Prop    | For aftermarket use only |

**IDS No.:** 398      **Rev.:** 1      **IC Date:** 07/16/2015

**Modifier:** SOLOY  
**Engine Model:** 250-C20S  
**Power:** 418 HP @ 1800 RPM  
**Placard/Restr:**  
**Notes:** 10.5 +-1.5 Deg. high pitch

**Startlock Angle:** NA  
**Feather/High Angle:** 81.0 +-0.5  
**Cwt Angle:**

**Non-HPI Governor:**

**CESSNA**

**Model:** 206,U206,U206A  
**Trade Name:** SUPER SKYLANE  
**Aircraft T.C./STC:** SA10010SC  
**Propeller Model:** PHC-C3YF-1RF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** F8068-2  
**Prop Diameter:** 80"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.5 +-0.1  
**Stud Protrusion** 1.450 +-0.030

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number     | Description                  | Quantity | Qty Per | Comments                                   |
|---------------|-----------------|------------------------------|----------|---------|--|
| PROPELLER     | C3F00037        | PHC-C3YF-1RF/F8068-2/SM25    | 1        | A/C     |  |
| PROPELLER     | C3F00037KD      | PHC-C3YF-1RF/F8068-2/SM25    | 1        | A/C     |  |
| BLADE         | F8068-2         | PCP:BLADE UNIT, ALUM [1,1,5] | 3        | Prop    |  |
| SPINNER       | D-5732-P        | SPINNER ASSEMBLY             | 1        | Prop    |  |
| SPIN MTG KIT  | A-2476-25       | SPINNER - MTG KIT            | 1        | Prop    |  |
| MTG BOLT/STUD | A-2429-4        | STUD, MOUNTING, 1/2-20       | 6        | Prop    | Use w/E-7154-2R Hub Only                   |
| MTG BOLT/STUD | A-2429-7        | STUD, MOUNTING, 1/2-20       | 6        | Prop    | Use with E-7154-12R & E-7154-42R hubs only |
| OVERHAUL KIT  | PHC-C3YF-1RF*1  | O/H KIT W/O SLIMSERTS        | 1        | Prop    | For aftermarket use only                   |
| OVERHAUL KIT  | PHC-C3YF-1RF-OH | O/H KIT                      | 1        | Prop    | For aftermarket use only                   |

**IDS No.:** 2440      **Rev.:** 2      **IC Date:** 07/16/2015

**Modifier:** TEXAS SKYWAYS  
**Engine Model:** IO-550-F  
**Power:** 300 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 31.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

# HARTZELL

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CESSNA

IDS No.: 1899 Rev.: 1 BC Date: 07/28/2014

Model: 206, U206, U206A, P206 (A-E)

Trade Name: SUPER SKYLANE

Aircraft T.C./STC: STC-SA685AL

Propeller Model: (P)HC-C3YF-1RF

Propeller T.C.: P25EA

Blade Model(s): F8468A-6R

F8468A-8R

Prop Diameter: 80.0" TO 77.0"

### Prop Setup:

Ref. Radius: 30

Reverse Angle: NA

Low Pitch Angle: 11.5 +-0.2

Stud Protrusion 1.450 +-0.030

Modifier: HARTZELL PROPELLER

Engine Model: IO-520-A

Power: 285 HP @ 2700 RPM

Placard/Restr:

Notes: Use IDS #1101

Startlock Angle: NA

Feather/High Angle: 32.0 +-1.0

Cwt Angle:

### Non-HPI Items:

Non-HPI Spinner:

Non-HPI Governor:

### Hartzell Approved Items:

| Item Type     | Item Number | Description                  | Quantity | Qty Per | Comments |
|---------------|-------------|------------------------------|----------|---------|----------|
| BLADE         | F8468A-6R   | PCP:BLADE UNIT, ALUM [1,1,1] | 3        | Prop    |          |
| BLADE         | F8468A-8R   | PCP:BLADE UNIT, ALUM [1,1,1] | 3        | Prop    |          |
| SPINNER       | A-2295-1P   | SPINNER ASSEMBLY             | 1        | Prop    |          |
| SPIN MTG KIT  | A-2476-30   | SPINNER - MTG KIT            | 1        | Prop    |          |
| MTG BOLT/STUD | A-2429-4    | STUD, MOUNTING, 1/2-20       | 6        | Prop    |          |

# HARTZELL

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CESSNA

IDS No.: 1101 Rev.: 3 IC Date: 07/16/2015

**Model:** 206,U206,U206A,P206A,TP206A,TU206A  
THRU F(TO S/N U-206-02199)

**Modifier:** HARTZELL PROPELLER

**Trade Name:** SUPER SKYLANE

**Engine Model:** IO-520-A

**Aircraft T.C./STC:** STC-SA685AL

**Power:** 285 HP @ 2700 RPM

**Propeller Model:** PHC-C3YF-1RF

**Placard/Restr:**

**Propeller T.C.:** P25EA

**Notes:** For P206A, replaces McCauley C58, C79, and C90

**Blade Model(s):** F8468A-6R

F8468A-8R

**Prop Diameter:** 80.0" TO 77.0"

**Prop Setup:**

**Ref. Radius:** 30

**Startlock Angle:** NA

**Reverse Angle:** NA

**Feather/High Angle:** 32.0 +-1.0

**Low Pitch Angle:** 11.5 +-0.2

**Cwt Angle:**

**Stud Protrusion:** 1.450 +-0.030

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type     | Item Number     | Description                  | Quantity | Qty Per | Comments                                   |
|---------------|-----------------|------------------------------|----------|---------|--|
| PROPELLER     | C3F00133        | PHC-C3YF-1RF/F8468A-6R/SM30  | 1        | A/C     |  |
| PROPELLER     | C3F00133KD      | PHC-C3YF-1RF/F8468A-6R/SM30  | 1        | A/C     |  |
| PROPELLER     | C3F00133SKDTP   | C3F00133/SM30/A-2295-1P      | 1        | A/C     |  |
| PROPELLER     | C3F00133STP     | C3F00133/SM30/A-2295-1P      | 1        | A/C     |  |
| PROPELLER     | C3F00136        | PHC-C3YF-1RF/F8468A-8R/SM30  | 1        | A/C     |  |
| PROPELLER     | C3F00136SKDTP   | C3F00136/SM30/A-2295-1P      | 1        | A/C     |  |
| PROPELLER     | C3F00136STP     | C3F00136/SM30/A-2295-1P      | 1        | A/C     |  |
| BLADE         | F8468A-6R       | PCP:BLADE UNIT, ALUM [1,1,1] | 3        | Prop    |  |
| BLADE         | F8468A-8R       | PCP:BLADE UNIT, ALUM [1,1,1] | 3        | Prop    |  |
| SPINNER       | A-2295-1        | SPINNER ASSEMBLY             | 1        | Prop    |  |
| SPINNER       | A-2295-1P       | SPINNER ASSEMBLY             | 1        | Prop    |  |
| SPIN MTG KIT  | A-2476-30       | SPINNER - MTG KIT            | 1        | Prop    |  |
| MTG BOLT/STUD | A-2429-4        | STUD, MOUNTING, 1/2-20       | 6        | Prop    | Use w/E-7154-2R Hub Only                   |
| MTG BOLT/STUD | A-2429-7        | STUD, MOUNTING, 1/2-20       | 6        | Prop    | Use with E-7154-12R & E-7154-42R hubs only |
| OVERHAUL KIT  | PHC-C3YF-1RF*1  | O/H KIT W/O SLIMSERTS        | 1        | Prop    | For aftermarket use only                   |
| OVERHAUL KIT  | PHC-C3YF-1RF-OH | O/H KIT                      | 1        | Prop    | For aftermarket use only                   |



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CESSNA

**Model:** U206A,B,C,D,E,F,G  
**Trade Name:** SUPER SKYLANE  
**Aircraft T.C./STC:** STC-SA2123NM  
**Propeller Model:** HC-C3YR-1RF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** F7854  
**Prop Diameter:** 80"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.5 +/-0.1  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number    | Description                | Quantity | Qty Per | Comments                 |
|---------------|----------------|----------------------------|----------|---------|--------------------------|
| PROPELLER     | C3R00037       | HC-C3YR-1RF/F7854/SM7      | 1        | A/C     |                          |
| PROPELLER     | C3R00037KD     | HC-C3YR-1RF/F7854/SM7      | 1        | A/C     |                          |
| BLADE         | F7854          | PCP:BLADE UNIT, ALUMINUM   | 3        | Prop    |                          |
| SPINNER       | A-2295-1       | SPINNER ASSEMBLY           | 1        | Prop    |                          |
| SPINNER       | A-2295-1P      | SPINNER ASSEMBLY           | 1        | Prop    |                          |
| GOVERNOR      | F4-13          | GOVERNOR ASSEMBLY, F-4-( ) | 1        | A/C     |                          |
| SPIN MTG KIT  | A-2476-7       | SPINNER - MTG KIT          | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2067         | STUD, MOUNTING, 1/2-20     | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-C3YR-1RF-OH | O/H KIT                    | 1        | Prop    | For aftermarket use only |

**IDS No.:** 1499      **Rev.:** 1      **IC Date:** 07/16/2015

**Modifier:** AERO MODS, INC.  
**Engine Model:** TIO-540-J2BD  
**Power:** 350 HP @ 2575 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 34.0 +/-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

CESSNA

**Model:** U206B,U206C,U206D,U206E,U206F,U206G  
 (up to S/N4074)  
**Trade Name:** SUPER SKYLANE  
**Aircraft T.C./STC:** STC-SA685AL  
**Propeller Model:** HC-C3YF-1RF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** F8468A-8R  
**Prop Diameter:** 78" TO 77"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 10.0 +/-0.2  
**Stud Protrusion** 1.450 +/- .030

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type    | Item Number    | Description                  | Quantity | Qty Per | Comments                 |
|--------------|----------------|------------------------------|----------|---------|--------------------------|
| PROPELLER    | C3F00050       | HC-C3YF-1RF/F8468A-8R/SM30   | 1        | A/C     |                          |
| PROPELLER    | C3F00050KD     | HC-C3YF-1RF/F8468A-8R/SM30   | 1        | A/C     |                          |
| BLADE        | F8468A-8R      | PCP:BLADE UNIT, ALUM [1,1,1] | 3        | Prop    |                          |
| SPINNER      | A-2295-1       | SPINNER ASSEMBLY             | 1        | Prop    |                          |
| OVERHAUL KIT | HC-C3YF-1RF-OH | O/H KIT                      | 1        | Prop    | For aftermarket use only |

**IDS No.:** 1565      **Rev.:** 3      **IC Date:** 10/24/2019

**Modifier:** HARTZELL PROPELLER  
**Engine Model:** IO-520-F  
**Power:** 300 HP @ 2850 RPM  
**Placard/Restr:**  
**Notes:** Use IDS #1126

**Startlock Angle:** NA  
**Feather/High Angle:** 32.0 +/-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

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CESSNA

IDS No.: 1135 Rev.: 2 IC Date: 07/16/2015

Model: U206G  
 Trade Name: SUPER SKYLANE  
 Aircraft T.C./STC: STC-SA685AL  
 Propeller Model: PHC-J3YF-1RF  
 Propeller T.C.: P36EA  
 Blade Model(s): F8468A-6R  
 F8468A-8R  
 Prop Diameter: 80.0" TO 77.0"

Modifier: HARTZELL PROPELLER  
 Engine Model: IO-520-F  
 Power: 300 HP @ 2850 RPM  
 Placard/Restr:

Notes: Eligible for U206G from S/N 4075 and up

**Prop Setup:**

Ref. Radius: 30  
 Reverse Angle: NA  
 Low Pitch Angle: 10.0 +-0.2  
 Stud Protrusion 1.450 +-0.030

Startlock Angle: NA  
 Feather/High Angle: 32.0 +-1.0  
 Cwt Angle:

**Non-HPI Items:**

Non-HPI Spinner:

Non-HPI Governor:

**Hartzell Approved Items:**

| Item Type     | Item Number     | Description                  | Quantity | Qty Per | Comments                 |
|---------------|-----------------|------------------------------|----------|---------|--------------------------|
| PROPELLER     | J3F00016        | PHC-J3YF-1RF/F8468A-6R/SM9   | 1        | A/C     |                          |
| PROPELLER     | J3F00016KD      | PHC-J3YF-1RF/F8468A-6R/SM9   | 1        | A/C     |                          |
| PROPELLER     | J3F00016SKDTP   | J3F00016/SM9/C-4582-P        | 1        | A/C     |                          |
| PROPELLER     | J3F00016STP     | J3F00016/SM9/C-4582-P        | 1        | A/C     |                          |
| PROPELLER     | J3F00017        | PHC-J3YF-1RF/F8468A-8R/SM9   | 1        | A/C     |                          |
| PROPELLER     | J3F00017KD      | PHC-J3YF-1RF/F8468A-8R/SM9   | 1        | A/C     |                          |
| PROPELLER     | J3F00017SKDTP   | J3F00017/SM9/C-4582-P        | 1        | A/C     |                          |
| PROPELLER     | J3F00017STP     | J3F00017/SM9/C-4582-P        | 1        | A/C     |                          |
| BLADE         | F8468A-6R       | PCP:BLADE UNIT, ALUM [1,1,1] | 3        | Prop    |                          |
| BLADE         | F8468A-8R       | PCP:BLADE UNIT, ALUM [1,1,1] | 3        | Prop    |                          |
| SPINNER       | C-4582          | SPINNER ASSEMBLY             | 1        | Prop    |                          |
| SPINNER       | C-4582-P        | SPINNER ASSEMBLY             | 1        | Prop    |                          |
| SPIN MTG KIT  | A-2476-9        | SPINNER - MTG KIT            | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2429-4        | STUD, MOUNTING, 1/2-20       | 6        | Prop    |                          |
| OVERHAUL KIT  | PHC-J3YF-1RF-OH | O/H KIT                      | 1        | Prop    | For aftermarket use only |

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CESSNA

IDS No.: 2439      Rev.: 1      IC      Date: 07/16/2015

**Model:** P206,P206A-P206E,U206B-U206G

**Trade Name:** SUPER SKYLANE

**Aircraft T.C./STC:** SA10010SC

**Propeller Model:** PHC-J3YF-1RF

**Propeller T.C.:** P36EA

**Blade Model(s):** F8068-2

**Prop Diameter:** 80"

**Prop Setup:**

**Ref. Radius:** 30

**Reverse Angle:** NA

**Low Pitch Angle:** 12.5 +-0.1

**Stud Protrusion** 1.450 +-0.030

**Modifier:** TEXAS SKYWAYS

**Engine Model:** IO-550-F

**Power:** 300 HP @ 2700 RPM

**Placard/Restr:**

**Notes:**

**Startlock Angle:** NA

**Feather/High Angle:** 31.0 +-1.0

**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>           | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|------------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | J3F10700           | PHC-J3YF-1RF/F8068-2/SM9     | 1               | A/C            |                          |
| PROPELLER        | J3F10700KD         | PHC-J3YF-1RF/F8068-2/SM9     | 1               | A/C            |                          |
| BLADE            | F8068-2            | PCP:BLADE UNIT, ALUM [1,1,5] | 3               | Prop           |                          |
| SPINNER          | D-5732-P           | SPINNER ASSEMBLY             | 1               | Prop           |                          |
| SPIN MTG KIT     | A-2476-9           | SPINNER - MTG KIT            | 1               | Prop           |                          |
| MTG BOLT/STUD    | A-2429-4           | STUD, MOUNTING, 1/2-20       | 6               | Prop           |                          |
| OVERHAUL KIT     | PHC-J3YF-1RF-OH    | O/H KIT                      | 1               | Prop           | For aftermarket use only |

# HARTZELL

## APPLICATION GUIDE

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**CESSNA**

**Model:** 206,U206,U206A,TP206A,TU206A THRU F  
(TO S/N U206-02199)

**Trade Name:** SUPER SKYLANE

**Aircraft T.C./STC:** STC-SA685AL

**Propeller Model:** HC-C3YF-1RF

**Propeller T.C.:** P25EA

**Blade Model(s):** F8468A-8R

**Prop Diameter:** 78" TO 77"

**Prop Setup:**

**Ref. Radius:** 30

**Reverse Angle:** NA

**Low Pitch Angle:** 11.5 +-0.2

**Stud Protrusion** 1.450 +-0.030

**IDS No.:** 396 **Rev.:** 2 **IC** **Date:** 07/16/2015

**Modifier:** HARTZELL PROPELLER

**Engine Model:** IO-520-A

**Power:** 285 HP @ 2700 RPM

**Placard/Restr:**

**Notes:**

**Startlock Angle:** NA

**Feather/High Angle:** 32.0 +-1.0

**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type     | Item Number    | Description                  | Quantity | Qty Per | Comments                 |
|---------------|----------------|------------------------------|----------|---------|--------------------------|
| PROPELLER     | C3F00053       | HC-C3YF-1RF/F8468A-8R/SM30   | 1        | A/C     |                          |
| PROPELLER     | C3F00053KD     | HC-C3YF-1RF/F8468A-8R/SM30   | 1        | A/C     |                          |
| PROPELLER     | C3F00053SKDTP  | C3F00053/SM30/A-2295-1P      | 1        | A/C     |                          |
| PROPELLER     | C3F00053STP    | C3F00053/SM30/A-2295-1P      | 1        | A/C     |                          |
| BLADE         | F8468A-8R      | PCP:BLADE UNIT, ALUM [1,1,1] | 3        | Prop    |                          |
| SPINNER       | A-2295-1       | SPINNER ASSEMBLY             | 1        | Prop    |                          |
| SPINNER       | A-2295-1P      | SPINNER ASSEMBLY             | 1        | Prop    |                          |
| SPIN MTG KIT  | A-2476-30      | SPINNER - MTG KIT            | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2429-4       | STUD, MOUNTING, 1/2-20       | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-C3YF-1RF-OH | O/H KIT                      | 1        | Prop    | For aftermarket use only |

**CESSNA**

**Model:** (U,P)206, U206(A-G), P206(A-E)

**Trade Name:** SUPER SKYLANE

**Aircraft T.C./STC:** STC-SA2830SO

**Propeller Model:** PHC-C3YF-1RF

**Propeller T.C.:** P25EA

**Blade Model(s):** F8468A-6R

**Prop Diameter:** 80.0" TO 77.0"

**Prop Setup:**

**Ref. Radius:** 30

**Reverse Angle:** NA

**Low Pitch Angle:** 11.7 +-0.1

**Stud Protrusion** 1.450 +-0.030

**IDS No.:** 1103 **Rev.:** - **DM** **Date:** 02/03/2005

**Modifier:** DAVIS AVIATION SERVICES

**Engine Model:** IO-550-F

**Power:** 300 HP @ 2700 RPM

**Placard/Restr:**

**Notes:**

**Startlock Angle:** NA

**Feather/High Angle:** 31.0 +-1.0

**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type     | Item Number | Description                  | Quantity | Qty Per | Comments |
|---------------|-------------|------------------------------|----------|---------|----------|
| BLADE         | F8468A-6R   | PCP:BLADE UNIT, ALUM [1,1,1] | 3        | Prop    |          |
| SPINNER       | A-2295-1P   | SPINNER ASSEMBLY             | 1        | Prop    |          |
| SPIN MTG KIT  | A-2476-7    | SPINNER - MTG KIT            | 1        | Prop    |          |
| MTG BOLT/STUD | A-2429-4    | STUD, MOUNTING, 1/2-20       | 6        | Prop    |          |

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**CESSNA**

**Model:** (U,P)206, U206(A-G), P206(A-E)

**Trade Name:** SUPER SKYLANE

**Aircraft T.C./STC:** STC-SA2830SO

**Propeller Model:** HC-C3YF-1RF

**Propeller T.C.:** P25EA

**Blade Model(s):** F9587C-15S

**Prop Diameter:** 82.0" TO 80.0"

**Prop Setup:**

**Ref. Radius:** 30

**Reverse Angle:** NA

**Low Pitch Angle:** 10.8 +-0.2

**Stud Protrusion** 1.450 +-0.030

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number | Description              | Quantity | Qty Per | Comments |
|---------------|-------------|--------------------------|----------|---------|----------|
| BLADE         | F9587C-15S  | PCP:BLADE UNIT, ALUMINUM | 3        | Prop    |          |
| SPINNER       | A-2295-1P   | SPINNER ASSEMBLY         | 1        | Prop    |          |
| SPIN MTG KIT  | A-2476-7    | SPINNER - MTG KIT        | 1        | Prop    |          |
| MTG BOLT/STUD | A-2429-4    | STUD, MOUNTING, 1/2-20   | 6        | Prop    |          |

**IDS No.:** 1484

**Rev.:** - **DM Date:** 02/03/2005

**Modifier:** DAVIS AVIATION SERVICES

**Engine Model:** IO-550-F

**Power:** 300 HP @ 2700 RPM

**Placard/Restr:** Continuous operation is prohibited between 2000 and 2300 RPM.

**Notes:**

**Startlock Angle:** NA

**Feather/High Angle:** 31.0 +-1.0

**Cwt Angle:**

**Non-HPI Governor:**

**CESSNA**

**Model:** (U,P)206, U206(A-G), P206(A-E)

**Trade Name:** SUPER SKYLANE

**Aircraft T.C./STC:** STC-SA2830SO

**Propeller Model:** PHC-J3YF-1RF

**Propeller T.C.:** P36EA

**Blade Model(s):** F8468A-6R

**Prop Diameter:** 80.0" TO 77.0"

**Prop Setup:**

**Ref. Radius:** 30

**Reverse Angle:** NA

**Low Pitch Angle:** 11.7 +-0.1

**Stud Protrusion** 1.450 +-0.030

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number     | Description                  | Quantity | Qty Per | Comments                 |
|---------------|-----------------|------------------------------|----------|---------|--------------------------|
| PROPELLER     | J3F00015        | PHC-J3YF-1RF/F8468A-6R/SM7   | 1        | A/C     |                          |
| PROPELLER     | J3F00015KD      | PHC-J3YF-1RF/F8468A-6R/SM7   | 1        | A/C     |                          |
| BLADE         | F8468A-6R       | PCP:BLADE UNIT, ALUM [1,1,1] | 3        | Prop    |                          |
| SPINNER       | C-4582-P        | SPINNER ASSEMBLY             | 1        | Prop    |                          |
| SPIN MTG KIT  | A-2476-7        | SPINNER - MTG KIT            | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2429-4        | STUD, MOUNTING, 1/2-20       | 6        | Prop    |                          |
| OVERHAUL KIT  | PHC-J3YF-1RF-OH | O/H KIT                      | 1        | Prop    | For aftermarket use only |

**IDS No.:** 1105

**Rev.:** 1 **IC Date:** 07/16/2015

**Modifier:** DAVIS AVIATION SERVICES

**Engine Model:** IO-550-F

**Power:** 300 HP @ 2700 RPM

**Placard/Restr:**

**Notes:**

**Startlock Angle:** NA

**Feather/High Angle:** 31.0 +-1.0

**Cwt Angle:**

**Non-HPI Governor:**

# HARTZELL

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CESSNA

**Model:** (U,P)206, U206(A-G), P206(A-E)  
**Trade Name:** SUPER SKYLANE  
**Aircraft T.C./STC:** STC-SA2830SO  
**Propeller Model:** PHC-J3YF-1RF  
**Propeller T.C.:** P36EA  
**Blade Model(s):** F7691  
**Prop Diameter:** 78.0" TO 77.0"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.4 +-0.1  
**Stud Protrusion** 1.450 +-0.030

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number | Description                  | Quantity | Qty Per | Comments |
|---------------|-------------|------------------------------|----------|---------|----------|
| BLADE         | F7691       | PCP:BLADE UNIT, ALUM [1,1,5] | 3        | Prop    |          |
| SPINNER       | C-4582-P    | SPINNER ASSEMBLY             | 1        | Prop    |          |
| SPIN MTG KIT  | A-2476-7    | SPINNER - MTG KIT            | 1        | Prop    |          |
| MTG BOLT/STUD | A-2429-4    | STUD, MOUNTING, 1/2-20       | 6        | Prop    |          |

**IDS No.:** 1482 **Rev.:** - **DM Date:** 02/03/2005

**Modifier:** DAVIS AVIATION SERVICES  
**Engine Model:** IO-550-F  
**Power:** 300 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 31.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

CESSNA

**Model:** (U,P)206, U206(A-G), P206(A-E)  
**Trade Name:** SUPER SKYLANE  
**Aircraft T.C./STC:** STC-SA2830SO  
**Propeller Model:** PHC-C3YF-1RF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** F7691  
**Prop Diameter:** 78.0" TO 77.0"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.4 +-0.1  
**Stud Protrusion** 1.450 +-0.030

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number     | Description                  | Quantity | Qty Per | Comments                                   |
|---------------|-----------------|------------------------------|----------|---------|--|
| PROPELLER     | C3F00027        | PHC-C3YF-1RF/F7691/SM7       | 1        | A/C     |  |
| BLADE         | F7691           | PCP:BLADE UNIT, ALUM [1,1,5] | 3        | Prop    |  |
| SPINNER       | A-2295-1P       | SPINNER ASSEMBLY             | 1        | Prop    |  |
| SPIN MTG KIT  | A-2476-7        | SPINNER - MTG KIT            | 1        | Prop    |  |
| MTG BOLT/STUD | A-2429-4        | STUD, MOUNTING, 1/2-20       | 6        | Prop    | Use w/E-7154-2R Hub Only                   |
| MTG BOLT/STUD | A-2429-7        | STUD, MOUNTING, 1/2-20       | 6        | Prop    | Use with E-7154-12R & E-7154-42R hubs only |
| OVERHAUL KIT  | PHC-C3YF-1RF*1  | O/H KIT W/O SLIMSERTS        | 1        | Prop    | For aftermarket use only                   |
| OVERHAUL KIT  | PHC-C3YF-1RF-OH | O/H KIT                      | 1        | Prop    | For aftermarket use only                   |

**IDS No.:** 1483 **Rev.:** 2 **IC Date:** 07/16/2015

**Modifier:** DAVIS AVIATION SERVICES  
**Engine Model:** IO-550-F  
**Power:** 300 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 31.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

# HARTZELL

## APPLICATION GUIDE

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CESSNA

IDS No.: 2619 Rev.: 3 IC Date: 07/16/2015

Model: 207, 207A  
 Trade Name: SKYWAGON  
 Aircraft T.C./STC: SA696AL  
 Propeller Model: PHC-C3YF-1RF  
 Propeller T.C.: P25EA  
 Blade Model(s): F8468A-6R  
 Prop Diameter: 80.0" TO 77.0"

Modifier: HARTZELL PROPELLER  
 Engine Model: IO-520-F  
 Power: 300 HP @ 2850 RPM  
 Placard/Restr:  
 Notes:

**Prop Setup:**

Ref. Radius: 30  
 Reverse Angle: NA  
 Low Pitch Angle: 10.0 +-0.2  
 Stud Protrusion 1.450 +-0.030

Startlock Angle: NA  
 Feather/High Angle: 32.0 +-1.0  
 Cwt Angle:

**Non-HPI Items:**

Non-HPI Spinner:

Non-HPI Governor:

**Hartzell Approved Items:**

| Item Type     | Item Number     | Description                  | Quantity | Qty Per | Comments                                   |
|---------------|-----------------|------------------------------|----------|---------|--|
| PROPELLER     | C3F00119        | PHC-C3YF-1RF/F8468A-6R/SM30  | 1        | A/C     |  |
| PROPELLER     | C3F00119KD      | PHC-C3YF-1RF/F8468A-6R/SM30  | 1        | A/C     |  |
| PROPELLER     | C3F00119SKDTP*1 | C3F00119/SM30/A-2295-1P      | 1        | A/C     |  |
| PROPELLER     | C3F00119STP*1   | C3F00119/SM30/A-2295-1P      | 1        | A/C     |  |
| BLADE         | F8468A-6R       | PCP:BLADE UNIT, ALUM [1,1,1] | 3        | Prop    |  |
| SPINNER       | A-2295-1        | SPINNER ASSEMBLY             | 1        | Prop    |  |
| SPINNER       | A-2295-1P       | SPINNER ASSEMBLY             | 1        | Prop    |  |
| SPIN MTG KIT  | A-2476-30       | SPINNER - MTG KIT            | 1        | Prop    |  |
| MTG BOLT/STUD | A-2429-4        | STUD, MOUNTING, 1/2-20       | 6        | Prop    | Use w/E-7154-2R Hub Only                   |
| MTG BOLT/STUD | A-2429-7        | STUD, MOUNTING, 1/2-20       | 6        | Prop    | Use with E-7154-12R & E-7154-42R hubs only |
| OVERHAUL KIT  | PHC-C3YF-1RF*1  | O/H KIT W/O SLIMSERTS        | 1        | Prop    | For aftermarket use only                   |
| OVERHAUL KIT  | PHC-C3YF-1RF-OH | O/H KIT                      | 1        | Prop    | For aftermarket use only                   |

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## APPLICATION GUIDE

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**CESSNA**

IDS No.: 2441 Rev.: 2 IC Date: 07/16/2015

**Model:** 207, 207A  
**Trade Name:** SKYWAGON, STATIONAIR 7  
**Aircraft T.C./STC:** SA10011SC  
**Propeller Model:** PHC-C3YF-1RF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** F8068-2  
**Prop Diameter:** 80"

**Modifier:** TEXAS SKYWAYS  
**Engine Model:** IO-550-F  
**Power:** 300 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** 12.5 +-0.1  
**Stud Protrusion** 1.450 +-0.030

**Startlock Angle:**  
**Feather/High Angle:** 31.0 +-1.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type     | Item Number     | Description                  | Quantity | Qty Per | Comments                                   |
|---------------|-----------------|------------------------------|----------|---------|--|
| PROPELLER     | C3F00038        | PHC-C3YF-1RF/F8068-2/SM7     | 1        | A/C     |  |
| PROPELLER     | C3F00038KD      | PHC-C3YF-1RF/F8068-2/SM7     | 1        | A/C     |  |
| BLADE         | F8068-2         | PCP:BLADE UNIT, ALUM [1,1,5] | 3        | Prop    |  |
| SPINNER       | D-5732-P        | SPINNER ASSEMBLY             | 1        | A/C     |  |
| SPIN MTG KIT  | A-2476-7        | SPINNER - MTG KIT            | 1        | Prop    |  |
| MTG BOLT/STUD | A-2429-4        | STUD, MOUNTING, 1/2-20       | 6        | Prop    | Use w/E-7154-2R Hub Only                   |
| MTG BOLT/STUD | A-2429-7        | STUD, MOUNTING, 1/2-20       | 6        | Prop    | Use with E-7154-12R & E-7154-42R hubs only |
| OVERHAUL KIT  | PHC-C3YF-1RF*1  | O/H KIT W/O SLIMSERTS        | 1        | Prop    | For aftermarket use only                   |
| OVERHAUL KIT  | PHC-C3YF-1RF-OH | O/H KIT                      | 1        | Prop    | For aftermarket use only                   |

**CESSNA**

IDS No.: 400 Rev.: 1 BC Date: 08/22/2014

**Model:** 207, 207A  
**Trade Name:** SKYWAGON, STATIONAIR 7  
**Aircraft T.C./STC:** STC-SA696AL  
**Propeller Model:** HC-C3YF-1RF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** F8468A-8R  
**Prop Diameter:** 78" TO 77"

**Modifier:** HARTZELL PROPELLER  
**Engine Model:** IO-520-F  
**Power:** 300 HP @ 2850 RPM  
**Placard/Restr:**  
**Notes:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 10.0 +-0.2  
**Stud Protrusion** 1.450 +-0.030

**Startlock Angle:** NA  
**Feather/High Angle:** 32.0 +-1.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type     | Item Number | Description                  | Quantity | Qty Per | Comments |
|---------------|-------------|------------------------------|----------|---------|----------|
| BLADE         | F8468A-8R   | PCP:BLADE UNIT, ALUM [1,1,1] | 3        | Prop    |          |
| SPINNER       | A-2295-1    | SPINNER ASSEMBLY             | 1        | Prop    |          |
| MTG BOLT/STUD | A-2429-4    | STUD, MOUNTING, 1/2-20       | 6        | Prop    |          |



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**CESSNA**

**Model:** 207, 207A  
**Trade Name:** SKYWAGON  
**Aircraft T.C./STC:** SA696AL  
**Propeller Model:** HC-C3YF-1RF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** F8468A-8R  
**Prop Diameter:** 78" TO 77"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 10.0 +-0.2  
**Stud Protrusion** 1.450 +-0.030

**Non-HPI Items:**

**Non-HPI Spinner:**

**IDS No.:** 2511      **Rev.:** 2      **IC Date:** 07/16/2015

**Modifier:** HARTZELL PROPELLER  
**Engine Model:** IO-520-F  
**Power:** 300 HP @ 2850 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 32.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type     | Item Number    | Description                  | Quantity | Qty Per | Comments                 |
|---------------|----------------|------------------------------|----------|---------|--------------------------|
| PROPELLER     | C3F00052       | HC-C3YF-1RF/F8468A-8R/SM30   | 1        | A/C     |                          |
| PROPELLER     | C3F00052KD     | HC-C3YF-1RF/F8468A-8R/SM30   | 1        | A/C     |                          |
| PROPELLER     | C3F00052SKDTP  | C3F00052/SM30/A-2295-1P      | 1        | A/C     |                          |
| PROPELLER     | C3F00052STP    | C3F00052/SM30/A-2295-1P      | 1        | A/C     |                          |
| BLADE         | F8468A-8R      | PCP:BLADE UNIT, ALUM [1,1,1] | 3        | Prop    |                          |
| SPINNER       | A-2295-1       | SPINNER ASSEMBLY             | 1        | Prop    |                          |
| SPINNER       | A-2295-1P      | SPINNER ASSEMBLY             | 1        | Prop    |                          |
| SPIN MTG KIT  | A-2476-30      | SPINNER - MTG KIT            | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2429-4       | STUD, MOUNTING, 1/2-20       | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-C3YF-1RF-OH | O/H KIT                      | 1        | Prop    | For aftermarket use only |

**CESSNA**

**Model:** 207, 207A  
**Trade Name:** SKYWAGON  
**Aircraft T.C./STC:** STC-SA00636AT  
**Propeller Model:** PHC-C3YF-1RF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** F7691  
**Prop Diameter:** 78.0" TO 77.0"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 11.8 +-0.1  
**Stud Protrusion** 1.450 +-0.030

**Non-HPI Items:**

**Non-HPI Spinner:**

**IDS No.:** 1114      **Rev.:** -      **DM Date:** 02/02/2005

**Modifier:** DAVIS AVIATION SERVICES  
**Engine Model:** IO-520-F  
**Power:** 285 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 31.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type     | Item Number | Description                  | Quantity | Qty Per | Comments |
|---------------|-------------|------------------------------|----------|---------|----------|
| BLADE         | F7691       | PCP:BLADE UNIT, ALUM [1,1,5] | 3        | Prop    |          |
| SPINNER       | A-2295-1P   | SPINNER ASSEMBLY             | 1        | Prop    |          |
| SPIN MTG KIT  | A-2476-7    | SPINNER - MTG KIT            | 1        | Prop    |          |
| MTG BOLT/STUD | A-2429-4    | STUD, MOUNTING, 1/2-20       | 6        | Prop    |          |

# HARTZELL

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**CESSNA**

**Model:** 207, 207A  
**Trade Name:** SKYWAGON, STATIONAIR 7  
**Aircraft T.C./STC:** STC-SA696AL  
**Propeller Model:** HC-C3YF-1RF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** F8468A-8R  
**Prop Diameter:** 78.0" TO 77.0"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 10.0 +-0.2  
**Stud Protrusion** 1.450 +-0.030

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number | Description                  | Quantity | Qty Per | Comments |
|---------------|-------------|------------------------------|----------|---------|----------|
| BLADE         | F8468A-8R   | PCP:BLADE UNIT, ALUM [1,1,1] | 3        | Prop    |          |
| SPINNER       | A-2295-1P   | SPINNER ASSEMBLY             | 1        | Prop    |          |
| SPIN MTG KIT  | A-2476-30   | SPINNER - MTG KIT            | 1        | Prop    |          |
| MTG BOLT/STUD | A-2429-4    | STUD, MOUNTING, 1/2-20       | 6        | Prop    |          |

**IDS No.:** 1129      **Rev.:** 1      **BC Date:** 08/22/2014

**Modifier:** HARTZELL PROPELLER  
**Engine Model:** IO-520-F  
**Power:** 300 HP @ 2850 RPM  
**Placard/Restr:**

**Notes:** Install spinner mounting kit per instructions in STC

**Startlock Angle:** NA  
**Feather/High Angle:** 32.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

**CESSNA**

**Model:** 207, 207A  
**Trade Name:** SKYWAGON  
**Aircraft T.C./STC:** STC-SA00636AT  
**Propeller Model:** PHC-C3YF-1RF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** F8468A-6R  
**Prop Diameter:** 80.0" TO 77.0"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 10.4 +-0.2  
**Stud Protrusion** 1.450 +-0.030

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number     | Description                  | Quantity | Qty Per | Comments                                   |
|---------------|-----------------|------------------------------|----------|---------|--|
| PROPELLER     | C3F00122        | PHC-C3YF-1RF/F8468A-6R/SM7   | 1        | A/C     |  |
| PROPELLER     | C3F00122KD      | PHC-C3YF-1RF/F8468A-6R/SM7   | 1        | A/C     |  |
| BLADE         | F8468A-6R       | PCP:BLADE UNIT, ALUM [1,1,1] | 3        | Prop    |  |
| SPINNER       | A-2295-1P       | SPINNER ASSEMBLY             | 1        | Prop    |  |
| SPIN MTG KIT  | A-2476-7        | SPINNER - MTG KIT            | 1        | Prop    |  |
| MTG BOLT/STUD | A-2429-4        | STUD, MOUNTING, 1/2-20       | 6        | Prop    | Use w/E-7154-2R Hub Only                   |
| MTG BOLT/STUD | A-2429-7        | STUD, MOUNTING, 1/2-20       | 6        | Prop    | Use with E-7154-12R & E-7154-42R hubs only |
| OVERHAUL KIT  | PHC-C3YF-1RF*1  | O/H KIT W/O SLIMSERTS        | 1        | Prop    | For aftermarket use only                   |
| OVERHAUL KIT  | PHC-C3YF-1RF-OH | O/H KIT                      | 1        | Prop    | For aftermarket use only                   |

**IDS No.:** 1131      **Rev.:** 3      **IC Date:** 03/15/2016

**Modifier:** DAVIS AVIATION SERVICES  
**Engine Model:** IO-520-F  
**Power:** 285 HP @ 2700 RPM  
**Placard/Restr:**

**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 31.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

# HARTZELL

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CESSNA

**Model:** 207, 207A  
**Trade Name:** SKYWAGON  
**Aircraft T.C./STC:** STC-SA00636AT  
**Propeller Model:** PHC-J3YF-1RF  
**Propeller T.C.:** P36EA  
**Blade Model(s):** F7691  
**Prop Diameter:** 78.0" TO 77.0"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 11.8 +-0.1  
**Stud Protrusion** 1.450 +-0.030

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 1118 **Rev.:** - **DM Date:** 02/02/2005

**Modifier:** DAVIS AVIATION SERVICES

**Engine Model:** IO-520-F

**Power:** 285 HP @ 2700 RPM

**Placard/Restr:**

**Notes:**

**Startlock Angle:** NA

**Feather/High Angle:** 31.0 +-1.0

**Cwt Angle:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>           | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|------------------------------|-----------------|----------------|-----------------|
| BLADE            | F7691              | PCP:BLADE UNIT, ALUM [1,1,5] | 3               | Prop           |                 |
| SPINNER          | C-4582-P           | SPINNER ASSEMBLY             | 1               | Prop           |                 |
| SPIN MTG KIT     | A-2476-7           | SPINNER - MTG KIT            | 1               | Prop           |                 |
| MTG BOLT/STUD    | A-2429-4           | STUD, MOUNTING, 1/2-20       | 6               | Prop           |                 |

CESSNA

**Model:** 207, 207A  
**Trade Name:** SKYWAGON  
**Aircraft T.C./STC:** STC-SA00636AT  
**Propeller Model:** PHC-J3YF-1RF  
**Propeller T.C.:** P36EA  
**Blade Model(s):** F8468A-6R  
**Prop Diameter:** 80.0" TO 77.0"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 10.4 +-0.2  
**Stud Protrusion** 1.450 +-0.030

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 1139 **Rev.:** 1 **IC Date:** 07/16/2015

**Modifier:** DAVIS AVIATION SERVICES

**Engine Model:** IO-520-F

**Power:** 285 HP @ 2700 RPM

**Placard/Restr:**

**Notes:**

**Startlock Angle:** NA

**Feather/High Angle:** 31.0 +-1.0

**Cwt Angle:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>           | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|------------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | J3F00014           | PHC-J3YF-1RF/F8468A-6R/SM7   | 1               | A/C            |                          |
| PROPELLER        | J3F00014KD         | PHC-J3YF-1RF/F8468A-6R/SM7   | 1               | A/C            |                          |
| BLADE            | F8468A-6R          | PCP:BLADE UNIT, ALUM [1,1,1] | 3               | Prop           |                          |
| SPINNER          | C-4582-P           | SPINNER ASSEMBLY             | 1               | Prop           |                          |
| SPIN MTG KIT     | A-2476-7           | SPINNER - MTG KIT            | 1               | Prop           |                          |
| MTG BOLT/STUD    | A-2429-4           | STUD, MOUNTING, 1/2-20       | 6               | Prop           |                          |
| OVERHAUL KIT     | PHC-J3YF-1RF-OH    | O/H KIT                      | 1               | Prop           | For aftermarket use only |

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CESSNA

IDS No.: 2444 Rev.: 1 IC Date: 07/16/2015

Model: 207, 207A  
 Trade Name: SKYWAGON, STATIONAIR 7  
 Aircraft T.C./STC: SA10011SC  
 Propeller Model: PHC-J3YF-1RF  
 Propeller T.C.: P36EA  
 Blade Model(s): F8068  
 Prop Diameter: 82"

Modifier: TEXAS SKYWAYS  
 Engine Model: IO-550-F  
 Power: 300 HP @ 2700 RPM  
 Placard/Restr:  
 Notes:

**Prop Setup:**

Ref. Radius: 30  
 Reverse Angle:  
 Low Pitch Angle: 12.5 +-0.1  
 Stud Protrusion 1.450 +-0.030

Startlock Angle:  
 Feather/High Angle: 31.0 +-1.0  
 Cwt Angle:

**Non-HPI Items:**

Non-HPI Spinner:

Non-HPI Governor:

**Hartzell Approved Items:**

| Item Type     | Item Number     | Description                  | Quantity | Qty Per | Comments                 |
|---------------|-----------------|------------------------------|----------|---------|--------------------------|
| PROPELLER     | J3F10691        | PHC-J3YF-1RF/F8068/SM7       | 1        | A/C     |                          |
| PROPELLER     | J3F10691KD      | PHC-J3YF-1RF/F8068/SM7       | 1        | A/C     |                          |
| BLADE         | F8068           | PCP:BLADE UNIT, ALUM [1,1,5] | 3        | Prop    |                          |
| SPINNER       | D-5732-P        | SPINNER ASSEMBLY             | 1        | Prop    |                          |
| SPIN MTG KIT  | A-2476-7        | SPINNER - MTG KIT            | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2429-4        | STUD, MOUNTING, 1/2-20       | 6        | Prop    |                          |
| OVERHAUL KIT  | PHC-J3YF-1RF-OH | O/H KIT                      | 1        | Prop    | For aftermarket use only |

CESSNA

IDS No.: 2443 Rev.: 1 IC Date: 07/16/2015

Model: 207, 207A  
 Trade Name: SKYWAGON, STATIONAIR 7  
 Aircraft T.C./STC: SA10011SC  
 Propeller Model: PHC-J3YF-1RF  
 Propeller T.C.: P36EA  
 Blade Model(s): F8068-2  
 Prop Diameter: 80"

Modifier: TEXAS SKYWAYS  
 Engine Model: IO-550-F  
 Power: 300 HP @ 2700 RPM  
 Placard/Restr:  
 Notes:

**Prop Setup:**

Ref. Radius: 30  
 Reverse Angle:  
 Low Pitch Angle: 12.5 +-0.1  
 Stud Protrusion 1.450 +-0.030

Startlock Angle:  
 Feather/High Angle: 31.0 +-1.0  
 Cwt Angle:

**Non-HPI Items:**

Non-HPI Spinner:

Non-HPI Governor:

**Hartzell Approved Items:**

| Item Type     | Item Number     | Description                  | Quantity | Qty Per | Comments                 |
|---------------|-----------------|------------------------------|----------|---------|--------------------------|
| PROPELLER     | J3F10701        | PHC-J3YF-1RF/F8068-2/SM7     | 1        | A/C     |                          |
| PROPELLER     | J3F10701KD      | PHC-J3YF-1RF/F8068-2/SM7     | 1        | A/C     |                          |
| BLADE         | F8068-2         | PCP:BLADE UNIT, ALUM [1,1,5] | 3        | Prop    |                          |
| SPINNER       | D-5732-P        | SPINNER ASSEMBLY             | 1        | Prop    |                          |
| SPIN MTG KIT  | A-2476-7        | SPINNER - MTG KIT            | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2429-4        | STUD, MOUNTING, 1/2-20       | 6        | Prop    |                          |
| OVERHAUL KIT  | PHC-J3YF-1RF-OH | O/H KIT                      | 1        | Prop    | For aftermarket use only |

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CESSNA

**Model:** 207, 207A  
**Trade Name:** SKYWAGON, STATIONAIR 7  
**Aircraft T.C./STC:** SA10011SC  
**Propeller Model:** PHC-C3YF-1RF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** F8068  
**Prop Diameter:** 82"

**IDS No.:** 2442      **Rev.:** 2      **IC Date:** 07/16/2015

**Modifier:** TEXAS SKYWAYS  
**Engine Model:** IO-550-F  
**Power:** 300 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.5 +-0.1  
**Stud Protrusion:** 1.450 +-0.030

**Startlock Angle:** NA  
**Feather/High Angle:** 31.0 +-1.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type     | Item Number     | Description                  | Quantity | Qty Per | Comments                                   |
|---------------|-----------------|------------------------------|----------|---------|--|
| PROPELLER     | C3F00002        | PHC-C3YF-1RF/F8068/SM7       | 1        | A/C     |  |
| PROPELLER     | C3F00002KD      | PHC-C3YF-1RF/F8068/SM7       | 1        | A/C     |  |
| BLADE         | F8068           | PCP:BLADE UNIT, ALUM [1,1,5] | 3        | Prop    |  |
| SPINNER       | D-5732-P        | SPINNER ASSEMBLY             | 1        | Prop    |  |
| SPIN MTG KIT  | A-2476-7        | SPINNER - MTG KIT            | 1        | Prop    |  |
| MTG BOLT/STUD | A-2429-4        | STUD, MOUNTING, 1/2-20       | 6        | Prop    | Use w/E-7154-2R Hub Only                   |
| MTG BOLT/STUD | A-2429-7        | STUD, MOUNTING, 1/2-20       | 6        | Prop    | Use with E-7154-12R & E-7154-42R hubs only |
| OVERHAUL KIT  | PHC-C3YF-1RF*1  | O/H KIT W/O SLIMSERTS        | 1        | Prop    | For aftermarket use only                   |
| OVERHAUL KIT  | PHC-C3YF-1RF-OH | O/H KIT                      | 1        | Prop    | For aftermarket use only                   |

CESSNA

**Model:** 207, 207A, T207, T207A  
**Trade Name:** SUPER SKYLANE  
**Aircraft T.C./STC:** STC-SA3322NM  
**Propeller Model:** HC-C3YN-5A  
**Propeller T.C.:** P25EA  
**Blade Model(s):** FC9587D-2  
**Prop Diameter:** 95"

**IDS No.:** 1526      **Rev.:** -      **DM Date:** 02/02/2005

**Modifier:** SOLOY  
**Engine Model:** 250-C20S  
**Power:** 418 HP @ 1800 RPM  
**Placard/Restr:**  
**Notes:** 10.5 +-1.5 Deg. high pitch

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 5.0 +-0.2  
**Stud Protrusion:** 1.580 +-0.030

**Startlock Angle:** NA  
**Feather/High Angle:** 81.0 +-0.5  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type     | Item Number | Description              | Quantity | Qty Per | Comments        |
|---------------|-------------|--------------------------|----------|---------|-----------------|
| BLADE         | FC9587D-2   | PCP:BLADE UNIT, ALUMINUM | 3        | Prop    |                 |
| SPINNER       | D-1649      | SPINNER ASSEMBLY         | 1        | Prop    |                 |
| SPIN MTG KIT  | A-2476-23   | SPINNER - MTG KIT        | 1        | Prop    |                 |
| COUNTERWEIGHT | B-3202H-6   | PCP:COUNTERWEIGHT        | 1        | Blade   | Blade Component |
| MTG BOLT/STUD | A-3254      | STUD, MOUNTING, 9/16-18  | 8        | Prop    |                 |

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**CESSNA**

**Model:** T207A  
**Trade Name:** SKYWAGON  
**Aircraft T.C./STC:** SA696AL  
**Propeller Model:** PHC-C3YF-1RF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** F8468A-6R  
**Prop Diameter:** 80.0" TO 78.0"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 11.7 +-0.1  
**Stud Protrusion** 1.450 +-0.030

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number     | Description                  | Quantity | Qty Per | Comments                                   |
|---------------|-----------------|------------------------------|----------|---------|--|
| PROPELLER     | C3F00139        | PHC-C3YF-1RF/F8468A-6R/SM30  | 1        | A/C     |  |
| PROPELLER     | C3F00139KD      | PHC-C3YF-1RF/F8468A-6R/SM30  | 1        | A/C     |  |
| PROPELLER     | C3F00139SKDTP   | C3F00139/SM30/A-2295-1P      | 1        | A/C     |  |
| PROPELLER     | C3F00139STP     | C3F00139/SM30/A-2295-1P      | 1        | A/C     |  |
| BLADE         | F8468A-6R       | PCP:BLADE UNIT, ALUM [1,1,1] | 3        | Prop    |  |
| SPINNER       | A-2295-1        | SPINNER ASSEMBLY             | 1        | Prop    |  |
| SPINNER       | A-2295-1P       | SPINNER ASSEMBLY             | 1        | Prop    |  |
| SPIN MTG KIT  | A-2476-30       | SPINNER - MTG KIT            | 1        | Prop    |  |
| MTG BOLT/STUD | A-2429-4        | STUD, MOUNTING, 1/2-20       | 6        | Prop    | Use w/E-7154-2R Hub Only                   |
| MTG BOLT/STUD | A-2429-7        | STUD, MOUNTING, 1/2-20       | 6        | Prop    | Use with E-7154-12R & E-7154-42R hubs only |
| OVERHAUL KIT  | PHC-C3YF-1RF*1  | O/H KIT W/O SLIMSERTS        | 1        | Prop    | For aftermarket use only                   |
| OVERHAUL KIT  | PHC-C3YF-1RF-OH | O/H KIT                      | 1        | Prop    | For aftermarket use only                   |

**IDS No.:** 2513      **Rev.:** 3      **IC Date:** 07/16/2015

**Modifier:** HARTZELL PROPELLER  
**Engine Model:** TSIO-520-M  
**Power:** 310 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 31.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

**CESSNA**

**Model:** T207, T207A  
**Trade Name:**  
**Aircraft T.C./STC:** STC-SA696AL  
**Propeller Model:** PHC-C3YF-1RF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** F8468A-6R  
**Prop Diameter:** 80.0" TO 78.0"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 11.7 +-0.1  
**Stud Protrusion** 1.450 +-0.030

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number | Description                  | Quantity | Qty Per | Comments |
|---------------|-------------|------------------------------|----------|---------|----------|
| BLADE         | F8468A-6R   | PCP:BLADE UNIT, ALUM [1,1,1] | 3        | Prop    |          |
| SPINNER       | A-2295-1P   | SPINNER ASSEMBLY             | 1        | Prop    |          |
| SPIN MTG KIT  | A-2476-30   | SPINNER - MTG KIT            | 1        | Prop    |          |
| MTG BOLT/STUD | A-2429-4    | STUD, MOUNTING, 1/2-20       | 6        | Prop    |          |

**IDS No.:** 1351      **Rev.:** 1      **BC Date:** 08/22/2014

**Modifier:** HARTZELL PROPELLER  
**Engine Model:** TSIO-520-G, -M  
**Power:** 310 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:** Engine Ratings Note: TSIO-520-G (300hp)

**Startlock Angle:** NA  
**Feather/High Angle:** 31.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

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CESSNA

**Model:** 207, 207A, T207, T207A  
**Trade Name:** SKYWAGON  
**Aircraft T.C./STC:** STC-SA00173AT  
**Propeller Model:** PHC-C3YF-1RF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** F7691  
**Prop Diameter:** 78.0" TO 77.0"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.4 +-0.1  
**Stud Protrusion** 1.450 +-0.030

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number     | Description                  | Quantity | Qty Per | Comments                                   |
|---------------|-----------------|------------------------------|----------|---------|--|
| PROPELLER     | C3F00027        | PHC-C3YF-1RF/F7691/SM7       | 1        | A/C     |  |
| BLADE         | F7691           | PCP:BLADE UNIT, ALUM [1,1,5] | 3        | Prop    |  |
| SPINNER       | A-2295-1P       | SPINNER ASSEMBLY             | 1        | Prop    |  |
| SPIN MTG KIT  | A-2476-7        | SPINNER - MTG KIT            | 1        | Prop    |  |
| MTG BOLT/STUD | A-2429-4        | STUD, MOUNTING, 1/2-20       | 6        | Prop    | Use w/E-7154-2R Hub Only                   |
| MTG BOLT/STUD | A-2429-7        | STUD, MOUNTING, 1/2-20       | 6        | Prop    | Use with E-7154-12R & E-7154-42R hubs only |
| OVERHAUL KIT  | PHC-C3YF-1RF*1  | O/H KIT W/O SLIMSERTS        | 1        | Prop    | For aftermarket use only                   |
| OVERHAUL KIT  | PHC-C3YF-1RF-OH | O/H KIT                      | 1        | Prop    | For aftermarket use only                   |

**IDS No.:** 1115      **Rev.:** 2      **IC Date:** 07/16/2015

**Modifier:** DAVIS AVIATION SERVICES  
**Engine Model:** IO-550-F  
**Power:** 300 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 31.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

CESSNA

**Model:** 207, 207A, T207, T207A  
**Trade Name:** SKYWAGON  
**Aircraft T.C./STC:** STC-SA00173AT  
**Propeller Model:** PHC-C3YF-1RF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** F8468A-6R  
**Prop Diameter:** 80.0" TO 77.0"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 11.7 +-0.1  
**Stud Protrusion** 1.450 +-0.030

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number | Description                  | Quantity | Qty Per | Comments |
|---------------|-------------|------------------------------|----------|---------|----------|
| BLADE         | F8468A-6R   | PCP:BLADE UNIT, ALUM [1,1,1] | 3        | Prop    |          |
| SPINNER       | A-2295-1P   | SPINNER ASSEMBLY             | 1        | Prop    |          |
| SPIN MTG KIT  | A-2476-7    | SPINNER - MTG KIT            | 1        | Prop    |          |
| MTG BOLT/STUD | A-2429-4    | STUD, MOUNTING, 1/2-20       | 6        | Prop    |          |

**IDS No.:** 1130      **Rev.:** -      **DM Date:** 02/02/2005

**Modifier:** DAVIS AVIATION SERVICES  
**Engine Model:** IO-550-F  
**Power:** 300 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 31.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

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**CESSNA**

**Model:** 207, 207A, T207, T207A  
**Trade Name:** SKYWAGON  
**Aircraft T.C./STC:** STC-SA00173AT  
**Propeller Model:** PHC-J3YF-1RF  
**Propeller T.C.:** P36EA  
**Blade Model(s):** F8468A-6R  
**Prop Diameter:** 80.0" TO 77.0"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 11.7 +-0.1  
**Stud Protrusion** 1.450 +-0.030

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number     | Description                  | Quantity | Qty Per | Comments                 |
|---------------|-----------------|------------------------------|----------|---------|--------------------------|
| PROPELLER     | J3F00015        | PHC-J3YF-1RF/F8468A-6R/SM7   | 0        |         |                          |
| PROPELLER     | J3F00015KD      | PHC-J3YF-1RF/F8468A-6R/SM7   | 0        |         |                          |
| BLADE         | F8468A-6R       | PCP:BLADE UNIT, ALUM [1,1,1] | 3        | Prop    |                          |
| SPINNER       | C-4582          | SPINNER ASSEMBLY             | 1        | Prop    |                          |
| SPINNER       | C-4582-P        | SPINNER ASSEMBLY             | 1        | Prop    |                          |
| SPIN MTG KIT  | A-2476-7        | SPINNER - MTG KIT            | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2429-4        | STUD, MOUNTING, 1/2-20       | 6        | Prop    |                          |
| OVERHAUL KIT  | PHC-J3YF-1RF-OH | O/H KIT                      | 1        | Prop    | For aftermarket use only |

**IDS No.:** 1138      **Rev.:** 1      **IC Date:** 07/16/2015

**Modifier:** DAVIS AVIATION SERVICES  
**Engine Model:** IO-550-F  
**Power:** 300 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 31.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

**CESSNA**

**Model:** 207, 207A, T207, T207A  
**Trade Name:** SKYWAGON  
**Aircraft T.C./STC:** STC-SA00173AT  
**Propeller Model:** PHC-J3YF-1RF  
**Propeller T.C.:** P36EA  
**Blade Model(s):** F7691  
**Prop Diameter:** 78.0" TO 77.0"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.4 +-0.1  
**Stud Protrusion** 1.450 +-0.030

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number | Description                  | Quantity | Qty Per | Comments |
|---------------|-------------|------------------------------|----------|---------|----------|
| BLADE         | F7691       | PCP:BLADE UNIT, ALUM [1,1,5] | 3        | Prop    |          |
| SPINNER       | C-4582-P    | SPINNER ASSEMBLY             | 1        | Prop    |          |
| SPIN MTG KIT  | A-2476-7    | SPINNER - MTG KIT            | 1        | Prop    |          |
| MTG BOLT/STUD | A-2429-4    | STUD, MOUNTING, 1/2-20       | 6        | Prop    |          |

**IDS No.:** 1119      **Rev.:** -      **DM Date:** 02/02/2005

**Modifier:** DAVIS AVIATION SERVICES  
**Engine Model:** IO-550-F  
**Power:** 300 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 31.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**



# HARTZELL

CESSNA

**Model:** T207, T207A  
**Trade Name:**  
**Aircraft T.C./STC:** Unknown  
**Propeller Model:** PHC-C3YF-1RF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** F7663-2Q  
F7663D-2Q  
**Prop Diameter:** 76.0" NO CUT OFF

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.5 +/-0.1  
**Stud Protrusion** 1.450 +/-0.030

### Non-HPI Items:

**Non-HPI Spinner:**

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**IDS No.:** 1142      **Rev.:** -      **DM Date:** 02/02/2005

**Modifier:** MT PROPELLER  
**Engine Model:** TSIO-520  
**Power:** 310 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 31.5 +/-0.5  
**Cwt Angle:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>       | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|--------------------------|-----------------|----------------|-----------------|
| BLADE            | F7663-2Q           | PCP:BLADE UNIT, ALUMINUM | 3               | Prop           |                 |
| BLADE            | F7663D-2Q          | PCP:BLADE UNIT, ALUMINUM | 1               | Prop           |                 |
| SPIN MTG KIT     | A-2476-7           | SPINNER - MTG KIT        | 1               | Prop           |                 |
| MTG BOLT/STUD    | A-2429-4           | STUD, MOUNTING, 1/2-20   | 6               | Prop           |                 |

# HARTZELL

## APPLICATION GUIDE

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CESSNA

IDS No.: 3107 Rev.: 5 IC Date: 03/19/2018

**Model:** 208, 208B  
**Trade Name:** Caravan  
**Aircraft T.C./STC:** SA02291AK  
**Propeller Model:** HC-B4TN-5QL  
**Propeller T.C.:** P40EA

**Modifier:** Aero Twin  
**Engine Model:** TPE-331-12JR  
**Power:** 950 HP @ 1591 RPM  
**Placard/Restr:** Stabilized ground operation is prohibited below 1082 (68%) rpm.

**Blade Model(s):** LT10891N  
 LT10891NK  
**Prop Diameter:** 109.5" to 107.5"

**Notes:** STC is applicable to aircraft S/N 20800014 and above. The Cessna 208 is rated at 850 HP, the Cessna 208B is rated at 950 HP.

### Prop Setup:

**Ref. Radius:** 42  
**Reverse Angle:** -11.5 +/- 0.5  
**Low Pitch Angle:** N/A

**Startlock Angle:** -1.4 +/- 0.1  
**Feather/High Angle:** 81.2 +/- 0.5  
**Cwt Angle:** 2.0 +/- 1.0

**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| Item Type                      | Item Number    | Description                       | Quantity | Qty Per | Comments                    |
|--------------------------------|----------------|-----------------------------------|----------|---------|-----------------------------|
| PROPELLER                      | B4N21102S      | HC-B4TN-5QL/LT10891N/D-3434-7P    | 1        | A/C     |                             |
| PROPELLER                      | B4N21102SKD    | HC-B4TN-5QL/LT10891N/D-3434-7P    | 1        | A/C     |                             |
| PROPELLER                      | B4N21130S      | HC-B4TN-5QL/LT10891NK/D3434-7P    | 1        | A/C     |                             |
| PROPELLER                      | B4N21130SKD    | HC-B4TN-5QL/LT10891NK/D3434-7P    | 1        | A/C     |                             |
| BLADE                          | LT10891N       | PCP:BLADE UNIT, ALUMINUM          | 4        | Prop    |                             |
| BLADE                          | LT10891NK      | PCP:BLADE UNIT, ALUMINUM          | 4        | Prop    |                             |
| SPINNER                        | D-3434-7       | SPINNER ASSEMBLY                  | 1        | Prop    |                             |
| SPINNER                        | D-3434-7P      | SPINNER ASSEMBLY                  | 1        | Prop    |                             |
| SPIN MTG KIT                   | B-3384-12H     | BOLT, 1/4-28, HEX HEAD            | 8        | Prop    |                             |
| SPIN MTG KIT                   | B-3384-5H      | BOLT, 1/4-28, HEX HEAD            | 4        | Prop    |                             |
| SPIN MTG KIT                   | B-3851-0432    | WASHER                            | 20       | Prop    |                             |
| SP MT KIT DE-ICE               | 102831         | BOLT, HEX, 1/4-28, CRS            | 4        | Prop    | Included in prop de-ice kit |
| SP MT KIT DE-ICE               | B-3384-25H     | BOLT, 1/4-28, HEX HEAD            | 8        | Prop    | Included in prop de-ice kit |
| SP MT KIT DE-ICE               | B-3808-4       | NUT,HEX,SELF-LOCKING              | 12       | Prop    | Included in prop de-ice kit |
| SP MT KIT DE-ICE               | B-7076-42      | BELLEVILLE SPRING WASHER          | 36       | Prop    | Included in prop de-ice kit |
| COUNTERWEIGHT SLUG A-890-8     |                | PCP:SLUG, COUNTERWEIGHT           | 1        | Blade   |                             |
| COUNTERWEIGHT SLUG B-3384-9H   |                | BOLT, 1/4-28, HEX HEAD            | 2        | Blade   |                             |
| COUNTERWEIGHT SLUG B-3386-14H  |                | BOLT,3/8-24,HEX HEAD              | 2        | Blade   |                             |
| COUNTERWEIGHT SLUG B-3663-1    |                | PCP:SLUG, COUNTERWEIGHT           | 1        | Blade   |                             |
| COUNTERWEIGHT SLUG B-3834-0632 |                | WASHER                            | 2        | Blade   |                             |
| COUNTERWEIGHT SLUG B-3851-0432 |                | WASHER                            | 2        | Blade   | Optional                    |
| COUNTERWEIGHT SLUG B-3851-0463 |                | WASHER                            | 2        | Blade   | Optional                    |
| DE-ICER                        | 104286         | DE-ICE BOOT                       | 1        | Blade   |                             |
| DE-ICE KIT PR                  | 104334-1       | DE-ICE KIT (ONE PROP)             | 1        | Prop    |                             |
| MTG BOLT/STUD                  | B-3339         | BOLT, MOUNTING, 9/16-18, 12 POINT | 8        | Prop    |                             |
| MISC ACCES                     | A-6741-158     | EROSION TAPE, 2" WIDE, 108' RL    | 0        | Blade   | Included in blade BOM       |
| OVERHAUL KIT                   | HC-B4TN-5QL-OH | O/H KIT                           | 1        | Prop    | For aftermarket use only    |

# HARTZELL

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CESSNA

IDS No.: 3140 Rev.: 6 BC Date: 07/31/2014

**Model:** 208B  
**Trade Name:** Caravan  
**Aircraft T.C./STC:** SA02357LA  
**Propeller Model:** HC-B3TN-3AE(Y)  
**Propeller T.C.:** P15EA  
**Blade Model(s):** T10290N+2\*1  
 T10290NK+2\*1  
**Prop Diameter:** 104"

**Modifier:** Blackhawk Modifications Inc.  
**Engine Model:** PT6A-42A  
**Power:** 850 HP @ 2000 RPM  
**Placard/Restr:**  
**Notes:**

**Prop Setup:**

**Ref. Radius:** 42  
**Reverse Angle:** -15 +/- 0.5  
**Low Pitch Angle:** 10.0 +/- 0.1  
**Stud Protrusion**

**Startlock Angle:** 0.0 +/- 1.0  
**Feather/High Angle:** 79.0 +/- 1.0  
**Cwt Angle:** Positive

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type          | Item Number  | Description                       | Quantity | Qty Per | Comments  |
|--------------------|--------------|-----------------------------------|----------|---------|---|
| PROPELLER          | B3N10556S    | HC-B3TN-3AEY/T10290N+2[*1]        | 1        | A/C     | Uses 1 A-4731 Beta Feedback Block               |
| PROPELLER          | B3N10561S    | HC-B3TN-3AEY/T10290NK+2[*1]       | 1        | A/C     | Uses 1 A-4731 Beta Feedback Block               |
| PROPELLER          | B3N10850S    | HC-B3TN-3AE/T10290N+2[*1]         | 1        | A/C     | Uses 1 A-3044 Beta Feedback Block               |
| PROPELLER          | B3N10850SKD  | HC-B3TN-3AE/T10290N+2[*1]         | 1        | A/C     | Uses 1 A-3044 Beta Feedback Block               |
| PROPELLER          | B3N10870S    | HC-B3TN-3AE/T10290NK+2[*1]        | 1        | A/C     | Uses 1 A-3044 Beta Feedback Block               |
| PROPELLER          | B3N10870SKD  | HC-B3TN-3AE/T10290NK+2[*1]        | 1        | A/C     | Uses 1 A-3044 Beta Feedback Block               |
| BLADE              | T10290N+2*1  | BLADE UNIT, ALUMINUM[3,1,1]       | 3        | Prop    |   |
| BLADE              | T10290NK+2*1 | PCP:BLADE UNIT, ALUM, 105327      | 3        | Prop    |   |
| SPINNER            | 105298P      | SPINNER ASSEMBLY                  | 1        | Prop    |   |
| SPIN MTG KIT       | B-3384-4H    | BOLT, 1/4-28, HEX HEAD            | 6        | Prop    | Used on non-deice props with start locks        |
| SPIN MTG KIT       | B-3384-4H    | BOLT, 1/4-28, HEX HEAD            | 12       | Prop    | Used on props without Start Locks and no De-Ice |
| SPIN MTG KIT       | B-3384-5H    | BOLT, 1/4-28, HEX HEAD            | 3        | Prop    | Used on non-deice props with start locks        |
| SPIN MTG KIT       | B-3384-8H    | BOLT, 1/4-28, HEX HEAD            | 3        | Prop    | Used on non-deice props with start locks        |
| SPIN MTG KIT       | B-3808-4     | NUT,HEX,SELF-LOCKING              | 12       | Prop    |   |
| SPIN MTG KIT       | B-3851-0432  | WASHER                            | 24       | Prop    | Used on props with no deice                     |
| SP MT KIT DE-ICE   | A-2070-10    | SCREW, 1/4-28, BUTTON HEAD        | 9        | Prop    | Used with Start Lock Prop                       |
| SP MT KIT DE-ICE   | A-2070-7     | SCREW, 1/4-28, BUTTON HEAD        | 12       | Prop    | Used without Start Lock Prop                    |
| SP MT KIT DE-ICE   | A-2070-9     | SCREW, 1/4-28, BUTTON HEAD        | 3        | Prop    | Used with Start Lock Prop                       |
| SP MT KIT DE-ICE   | B-3808-4     | NUT,HEX,SELF-LOCKING              | 12       | Prop    |   |
| SP MT KIT DE-ICE   | B-3837-0432  | WASHER, CORROSION RESISTANT       | 12       | Prop    | Used on deice props                             |
| SP MT KIT DE-ICE   | B-7077-52    | BELLEVILLE SPRING WASHER          | 24       | Prop    |   |
| COUNTERWEIGHT SLUG | B-3386-14H   | BOLT,3/8-24,HEX HEAD              | 2        | Blade   |   |
| COUNTERWEIGHT SLUG | B-3663-4     | PCP:SLUG, COUNTERWEIGHT           | 1        | Blade   |   |
| COUNTERWEIGHT SLUG | B-3834-0632  | WASHER                            | 2        | Blade   |   |
| DE-ICER            | 105327       | DE-ICE BOOT                       | 1        | Blade   |   |
| DE-ICE KIT PR      | 104116       | DE-ICE KIT (ONE PROP)             | 1        | Prop    | De-ice kit without start-lock                   |
| DE-ICE KIT PR      | 105339       | DE-ICE KIT (ONE PROP)             | 1        | Prop    | De-ice kit with start-lock                      |
| DE-ICE KIT A/F     | 104430       | AIRFRAME DE-ICE KIT               | 1        | A/C     |   |
| MTG BOLT/STUD      | B-3339       | BOLT, MOUNTING, 9/16-18, 12 POINT | 8        | Prop    |   |
| MISC ACCES         | A-3044       | BLOCK, BETA FEEDBACK- ASSEMBLY    | 1        | Prop    |   |
| MISC ACCES         | A-4731       | BLOCK, BETA FEEDBACK- ASSEMBLY    | 1        | Prop    |   |

# HARTZELL

## APPLICATION GUIDE

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CESSNA

IDS No.: 1838 Rev.: 5 IC Date: 01/27/2020

**Model:** 208, 208A  
**Trade Name:** CARAVAN  
**Aircraft T.C./STC:** STC SA02291AK  
**Propeller Model:** HC-B4TN-5QL  
**Propeller T.C.:** P40EA

**Modifier:** Aero Twin  
**Engine Model:** TPE-331-12JR  
**Power:** 850 HP @ 1591 RPM  
**Placard/Restr:** Stabilized ground operation is prohibited below 1082 (68%) rpm and between 1352 (85%) and 1464 (92%) rpm.

**Blade Model(s):** LT10890N  
 LT10890NK  
**Prop Diameter:** 109.5" TO 107.5"

**Notes:** STC is applicable to aircraft S/N 20800014 and above. Reference HC-ASB-61-333 for replacement of LT10890N(K) blades with LT10891N(K). Reference also IDS-3107

### Prop Setup:

**Ref. Radius:** 42  
**Reverse Angle:** -11.5 +-0.5  
**Low Pitch Angle:** NA  
**Stud Protrusion**

**Startlock Angle:** -1.4 +-0.1  
**Feather/High Angle:** 81.2 +-0.5  
**Cwt Angle:** 2.0 +-1.0

### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| Item Type                      | Item Number    | Description                       | Quantity | Qty Per | Comments  |
|--------------------------------|----------------|-----------------------------------|----------|---------|---|
| PROPELLER                      | B4N20901S      | HC-B4TN-5QL/LT10890NK/D3434-7P    | 1        | A/C     | Propeller no longer available for new production per HC-ASB-61-333. See IDS-3107. |
| PROPELLER                      | B4N20901SKD    | HC-B4TN-5QL/LT10890NK/D3434-7P    | 1        | A/C     | Propeller no longer available for new production per HC-ASB-61-333. See IDS-3107. |
| PROPELLER                      | B4N20920S      | HC-B4TN-5QL/LT10890N/D-3434-7P    | 1        | A/C     | Propeller no longer available for new production per HC-ASB-61-333. See IDS-3107. |
| PROPELLER                      | B4N20920SKD    | HC-B4TN-5QL/LT10890N/D-3434-7P    | 1        | A/C     | Propeller no longer available for new production per HC-ASB-61-333. See IDS-3107. |
| BLADE                          | LT10890N       | BLADE UNIT, ALUMINUM [1,3,1]      | 4        | Prop    | Superseded by LT10891N per HC-ASB-61-333  |
| BLADE                          | LT10890NK      | PCP:BLADE UNIT, ALUMINUM          | 4        | Prop    | Superseded by LT10891NK per HC-ASB-61-333   |
| SPINNER                        | D-3434-7       | SPINNER ASSEMBLY                  | 1        | Prop    |   |
| SPINNER                        | D-3434-7P      | SPINNER ASSEMBLY                  | 1        | Prop    |   |
| SPIN MTG KIT                   | B-3384-12H     | BOLT, 1/4-28, HEX HEAD            | 8        | Prop    |   |
| SPIN MTG KIT                   | B-3384-5H      | BOLT, 1/4-28, HEX HEAD            | 4        | Prop    |   |
| SPIN MTG KIT                   | B-3851-0432    | WASHER                            | 20       | Prop    |   |
| SP MT KIT DE-ICE               | B-3384-25H     | BOLT, 1/4-28, HEX HEAD            | 8        | Prop    |   |
| SP MT KIT DE-ICE               | B-3808-4       | NUT,HEX,SELF-LOCKING              | 12       | Prop    |   |
| SP MT KIT DE-ICE               | B-3837-0432    | WASHER, CORROSION RESISTANT       | 20       | Prop    |   |
| SP MT KIT DE-ICE               | B-3865-15A     | BOLT,1/4-28,HEX HEAD,CRES         | 4        | Prop    |   |
| COUNTERWEIGHT SLUG A-890-8     |                | PCP:SLUG, COUNTERWEIGHT           | 1        | Blade   |   |
| COUNTERWEIGHT SLUG B-3384-9H   |                | BOLT, 1/4-28, HEX HEAD            | 2        | Blade   |   |
| COUNTERWEIGHT SLUG B-3386-14H  |                | BOLT,3/8-24,HEX HEAD              | 2        | Blade   |   |
| COUNTERWEIGHT SLUG B-3663-1    |                | PCP:SLUG, COUNTERWEIGHT           | 1        | Blade   |   |
| COUNTERWEIGHT SLUG B-3834-0632 |                | WASHER                            | 2        | Blade   |   |
| COUNTERWEIGHT SLUG B-3851-0432 |                | WASHER                            | 2        | Blade   | Optional  |
| COUNTERWEIGHT SLUG B-3851-0463 |                | WASHER                            | 2        | Blade   | Optional  |
| DE-ICER                        | 4H2598-10      | DE-ICE BOOT                       | 1        | Blade   | Supersedes 7931-4E2598-10   |
| DE-ICE KIT PR                  | 7931-5E2782-1  | DE-ICE KIT (ONE PROP)             | 1        | Prop    |   |
| MTG BOLT/STUD                  | B-3339         | BOLT, MOUNTING, 9/16-18, 12 POINT | 8        | Prop    |   |
| MISC ACCES                     | A-6741-158     | EROSION TAPE, 2" WIDE, 108' RL    | 0        | Blade   | .02 OF 108 FT ROLL  |
| OVERHAUL KIT                   | HC-B4TN-5QL-OH | O/H KIT                           | 1        | Prop    | For aftermarket use only  |

# HARTZELL

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CESSNA

IDS No.: 402      Rev.: 5      IC Date: 08/10/2015

**Model:** 208, 208A, 208B  
**Trade Name:** CARAVAN  
**Aircraft T.C./STC:** A37CE  
**Propeller Model:** HC-B3MN-3  
**Propeller T.C.:** P9NE  
**Blade Model(s):** M10083  
M10083K  
**Prop Diameter:** 100" NO CUT OFF

**Modifier:**  
**Engine Model:** PT6A-114,-114A  
**Power:** 600 HP @ 1900 RPM  
**Placard/Restr:**

**Notes:** Fit carbon block. No yellow stripe station reference on blades per customer request.

**Prop Setup:**

**Ref. Radius:** 42  
**Reverse Angle:** -18.0 +-0.5  
**Low Pitch Angle:** 9.0 +-0.2  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 78.4 +-0.5  
**Cwt Angle:** 2.5 +-1.5

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u>               | <u>Item Number</u> | <u>Description</u>                | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>           |
|--------------------------------|--------------------|-----------------------------------|-----------------|----------------|---------------------------|
| PROPELLER                      | B3N000057          | HC-B3MN-3/M10083/BULKHEAD         | 1               | A/C            |                           |
| PROPELLER                      | B3N000058          | HC-B3MN-3/M10083K/BULK/DE-ICE     | 1               | A/C            |                           |
| PROPELLER                      | B3N000058KD        | HC-B3MN-3/M10083K/BULK/DE-ICE     | 1               | A/C            |                           |
| PROPELLER                      | B3N000059          | HC-B3MN-3/M10083                  | 1               | A/C            |                           |
| PROPELLER                      | B3N000059KD        | HC-B3MN-3/M10083                  | 1               | A/C            |                           |
| PROPELLER                      | B3N000060          | HC-B3MN-3/M10083K                 | 1               | A/C            |                           |
| PROPELLER                      | B3N000060KD        | HC-B3MN-3/M10083K                 | 1               | A/C            |                           |
| BLADE                          | M10083             | PCP:BLADE ASSY, COMPOSITE         | 3               | Prop           |                           |
| BLADE                          | M10083K            | PCP:BLADE ASSY, COMPOSITE         | 3               | Prop           |                           |
| SPINNER                        | D-4897             | SPINNER ASSEMBLY                  | 1               | Prop           |                           |
| SPINNER                        | D-4897-P           | SPINNER ASSEMBLY                  | 1               | Prop           |                           |
| SPIN MTG KIT                   | B-3384-3H          | BOLT, 1/4-28, HEX HEAD            | 12              | Prop           |                           |
| SPIN MTG KIT                   | B-3808-4           | NUT,HEX,SELF-LOCKING              | 12              | Prop           |                           |
| SPIN MTG KIT                   | B-3851-0463        | WASHER                            | 12              | Prop           |                           |
| COUNTERWEIGHT SLUG A-890-6     |                    | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          |                           |
| COUNTERWEIGHT SLUG B-3384-13H  |                    | BOLT, 1/4-28, HEX HEAD            | 2               | Blade          |                           |
| COUNTERWEIGHT SLUG B-3386-14H  |                    | BOLT,3/8-24,HEX HEAD              | 2               | Blade          |                           |
| COUNTERWEIGHT SLUG B-3663-1    |                    | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          |                           |
| COUNTERWEIGHT SLUG B-3834-0632 |                    | WASHER                            | 2               | Blade          |                           |
| DE-ICER                        | 4H2336-12          | DE-ICE BOOT                       | 1               | Blade          | Supersedes 7931-4E2336-12 |
| DE-ICE KIT PR                  | 7931-67-440-1      | DE-ICE KIT (ONE PROP)             | 1               | Prop           |                           |
| MTG BOLT/STUD                  | B-3339             | BOLT, MOUNTING, 9/16-18, 12 POINT | 8               | Prop           |                           |
| MISC ACCES                     | A-3044             | BLOCK, BETA FEEDBACK- ASSEMBLY    | 1               | Prop           |                           |

# HARTZELL

## APPLICATION GUIDE

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**CESSNA**

**IDS No.:** 1696      **Rev.:** 3      **IC Date:** 08/05/2019

**Model:** 208, 208A, 208B  
**Trade Name:** CARAVAN  
**Aircraft T.C./STC:** STC-SA02181AK  
**Propeller Model:** HC-B3TN-3AF  
**Propeller T.C.:** P15EA  
**Blade Model(s):** T10890CN-2  
                           T10890CN-2\*1  
                           T10890CNK-2  
**Prop Diameter:** 106" TO 104"

**Modifier:** HARTZELL PROPELLER  
**Engine Model:** PT6A-114,-114A  
**Power:** 675 HP @ 1900 RPM  
**Placard/Restr:**  
**Notes:** Engine Ratings Note: PT6A-114 (600hp) 5E2715-2 Kit is for Hartzell OEM fitted aircraft; 5E2715-3 is for McCauley OEM fitted aircraft.

**Prop Setup:**

**Ref. Radius:** 42  
**Reverse Angle:** -21.0 +-0.5  
**Low Pitch Angle:** 8.0 +-0.2  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 79.0 +-1.0  
**Cwt Angle:** Positive

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type          | Item Number     | Description                       | Quantity | Qty Per | Comments                  |
|--------------------|-----------------|-----------------------------------|----------|---------|---------------------------|
| PROPELLER          | B3N00119        | HC-B3TN-3AF/T10890CNK-2           | 1        | A/C     | Uses 5E2715-1 Kit         |
| PROPELLER          | B3N00119KD      | HC-B3TN-3AF/T10890CNK-2           | 1        | A/C     | Uses 5E2715-1 Kit         |
| PROPELLER          | B3N00119S       | HC-B3TN-3AF/T10890CNK-2/SPIN      | 1        | A/C     | Uses 5E2715-1 Kit         |
| PROPELLER          | B3N00119SKD     | HC-B3TN-3AF/T10890CNK-2/SPIN      | 1        | A/C     | Uses 5E2715-1 Kit         |
| PROPELLER          | B3N00119SKDTP   | B3N00119/D-4897-P/DE-ICE          | 1        | A/C     | Uses 5E2715-1 Kit         |
| PROPELLER          | B3N00119SKDTP*1 | B3N00119/D-4897-P/FULL DE-ICE     | 1        | A/C     | Uses 5E2715-1 Kit         |
| PROPELLER          | B3N00119STP     | B3N00119/D-4897-P/DE-ICE          | 1        | A/C     | Uses 5E2715-1 Kit         |
| PROPELLER          | B3N00119STP*1   | B3N00119/D-4897-P/FULL DE-ICE     | 1        | A/C     | Uses 5E2715-1 Kit         |
| PROPELLER          | B3N00120        | HC-B3TN-3AF/T10890CN-2            | 1        | A/C     |                           |
| PROPELLER          | B3N00120KD      | HC-B3TN-3AF/T10890CN-2            | 1        | A/C     |                           |
| PROPELLER          | B3N00120S       | HC-B3TN-3AF/T10890CN-2/SPIN       | 1        | A/C     |                           |
| PROPELLER          | B3N00120SKD     | HC-B3TN-3AF/T10890CN-2/SPIN       | 1        | A/C     |                           |
| PROPELLER          | B3N00120SKDTP   | B3N00120/D-4897-P                 | 1        | A/C     |                           |
| PROPELLER          | B3N00120STP     | B3N00120/D-4897-P                 | 1        | A/C     |                           |
| PROPELLER          | B3N00123S       | HC-B3TN-3AF/T10890CN-2*1/SPIN     | 1        | A/C     |                           |
| PROPELLER          | B3N00123SKD     | HC-B3TN-3AF/T10890CN-2*1/SPIN     | 1        | A/C     |                           |
| BLADE              | T10890CN-2      | PCP:BLADE UNIT, ALUMINUM          | 3        | Prop    |                           |
| BLADE              | T10890CN-2*1    | PCP:BLADE UNIT, ALUMINUM          | 3        | Prop    |                           |
| BLADE              | T10890CNK-2     | PCP:BLADE UNIT, ALUM 4H2560-10    | 3        | Prop    |                           |
| SPINNER            | D-4897          | SPINNER ASSEMBLY                  | 1        | Prop    |                           |
| SPINNER            | D-4897-P        | SPINNER ASSEMBLY                  | 1        | Prop    |                           |
| SPIN MTG KIT       | B-3384-4H       | BOLT, 1/4-28, HEX HEAD            | 12       | Prop    |                           |
| SPIN MTG KIT       | B-3851-0432     | WASHER                            | 24       | Prop    |                           |
| SP MT KIT DE-ICE   | A-2070-10       | SCREW, 1/4-28, BUTTON HEAD        | 9        | Prop    | Used w/5E2715-4 Kit       |
| SP MT KIT DE-ICE   | A-2070-7        | SCREW, 1/4-28, BUTTON HEAD        | 12       | Prop    | Used w/5E2715-1 Kit       |
| SP MT KIT DE-ICE   | A-2070-9        | SCREW, 1/4-28, BUTTON HEAD        | 3        | Prop    | Used w/5E2715-4 Kit       |
| SP MT KIT DE-ICE   | B-3808-4        | NUT,HEX,SELF-LOCKING              | 12       | Prop    |                           |
| SP MT KIT DE-ICE   | B-3837-0432     | WASHER, CORROSION RESISTANT       | 12       | Prop    | Used w/5E2715-4 Kit       |
| SP MT KIT DE-ICE   | B-7077-52       | BELLEVILLE SPRING WASHER          | 24       | Prop    |                           |
| COUNTERWEIGHT SLUG | B-3386-14H      | BOLT,3/8-24,HEX HEAD              | 2        | Blade   |                           |
| COUNTERWEIGHT SLUG | B-3663-1        | PCP:SLUG, COUNTERWEIGHT           | 1        | Blade   |                           |
| COUNTERWEIGHT SLUG | B-3834-0632     | WASHER                            | 2        | Blade   |                           |
| DE-ICER            | 4H2560-10       | DE-ICE BOOT                       | 1        | Blade   | Supersedes 7931-4E2560-10 |
| DE-ICE KIT PR      | 7931-5E2715-1   | DE-ICE KIT (ONE PROP)             | 1        | Prop    |                           |
| DE-ICE KIT PR      | 7931-5E2715-4   | DE-ICE KIT (ONE PROP)             | 1        | Prop    | (Start-Lock)              |
| DE-ICE KIT A/F     | 7931-5E2715-2   | AIRFRAME DE-ICE KIT               | 1        | A/C     |                           |
| DE-ICE KIT A/F     | 7931-5E2715-3   | AIRFRAME DE-ICE KIT               | 1        | A/C     |                           |
| MTG BOLT/STUD      | B-3339          | BOLT, MOUNTING, 9/16-18, 12 POINT | 8        | Prop    |                           |
| MISC ACCES         | A-3044          | BLOCK, BETA FEEDBACK- ASSEMBLY    | 1        | Prop    |                           |

# HARTZELL

## APPLICATION GUIDE

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CESSNA

IDS No.: 1986 Rev.: 1 D Date: 01/10/2011

**Model:** 208, 208A, 208B  
**Trade Name:** CARAVAN  
**Aircraft T.C./STC:** STC ST01472SE  
**Propeller Model:** HC-B3TN-3AEY  
**Propeller T.C.:** P15EA  
**Blade Model(s):** T10290N+2\*1  
 T10290NK+2  
**Prop Diameter:** 104"

**Modifier:** KENMORE AIR HARBOR  
**Engine Model:** PT6A-114, 114A  
**Power:** 675 HP @ 1900 RPM  
**Placard/Restr:**  
**Notes:** Engine Ratings Note: PT6A-114 (600hp)

### Prop Setup:

**Ref. Radius:** 42  
**Reverse Angle:** -16.0 +-0.5  
**Low Pitch Angle:** 10.5 +-0.1  
**Stud Protrusion**

**Startlock Angle:** 1.0 +-1.0  
**Feather/High Angle:** 78.0 +-1.0  
**Cwt Angle:** Positive

### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| Item Type          | Item Number   | Description                       | Quantity | Qty Per | Comments                  |
|--------------------|---------------|-----------------------------------|----------|---------|---------------------------|
| PROPELLER          | B3N10555S     | HC-B3TN-3AEY/T10290N+2[*1]        | 1        | A/C     |                           |
| PROPELLER          | B3N10560S     | HC-B3TN-3AEY/T10290NK+2/D4897P    | 1        | A/C     |                           |
| BLADE              | T10290N+2*1   | BLADE UNIT, ALUMINUM[3,1,1]       | 3        | Prop    |                           |
| BLADE              | T10290NK+2    | PCP:BLADE UNIT, ALUM,4H2560-10    | 3        | Prop    |                           |
| SPINNER            | D-4897-P      | SPINNER ASSEMBLY                  | 1        | Prop    |                           |
| SPIN MTG KIT       | B-3384-4H     | BOLT, 1/4-28, HEX HEAD            | 6        | Prop    |                           |
| SPIN MTG KIT       | B-3384-5H     | BOLT, 1/4-28, HEX HEAD            | 3        | Prop    |                           |
| SPIN MTG KIT       | B-3384-8H     | BOLT, 1/4-28, HEX HEAD            | 3        | Prop    |                           |
| SPIN MTG KIT       | B-3808-4      | NUT,HEX,SELF-LOCKING              | 12       | Prop    |                           |
| SPIN MTG KIT       | B-3851-0432   | WASHER                            | 24       | Prop    |                           |
| SP MT KIT DE-ICE   | A-2070-10     | SCREW, 1/4-28, BUTTON HEAD        | 9        | Prop    |                           |
| SP MT KIT DE-ICE   | A-2070-9      | SCREW, 1/4-28, BUTTON HEAD        | 3        | Prop    |                           |
| SP MT KIT DE-ICE   | B-3808-4      | NUT,HEX,SELF-LOCKING              | 12       | Prop    |                           |
| SP MT KIT DE-ICE   | B-3837-0432   | WASHER, CORROSION RESISTANT       | 12       | Prop    |                           |
| SP MT KIT DE-ICE   | B-7077-52     | BELLEVILLE SPRING WASHER          | 24       | Prop    |                           |
| COUNTERWEIGHT SLUG | B-3386-14H    | BOLT,3/8-24,HEX HEAD              | 2        | Blade   |                           |
| COUNTERWEIGHT SLUG | B-3663-4      | PCP:SLUG, COUNTERWEIGHT           | 1        | Blade   |                           |
| COUNTERWEIGHT SLUG | B-3834-0632   | WASHER                            | 2        | Blade   |                           |
| DE-ICER            | 4H2560-10     | DE-ICE BOOT                       | 1        | Blade   | Supersedes 7931-4E2560-10 |
| DE-ICE KIT PR      | 7931-5E2803-1 | DE-ICE KIT (ONE PROP)             | 1        | Prop    |                           |
| MTG BOLT/STUD      | B-3339        | BOLT, MOUNTING, 9/16-18, 12 POINT | 8        | Prop    |                           |
| MISC ACCES         | A-4731        | BLOCK, BETA FEEDBACK- ASSEMBLY    | 1        | Prop    |                           |

# HARTZELL

## APPLICATION GUIDE

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CESSNA

IDS No.: 1204 Rev.: 7 IC Date: 08/26/2021

**Model:** 208, 208A, 208B

**Trade Name:** CARAVAN

**Aircraft T.C./STC:** STC-SA8954SW

**Propeller Model:** HC-B3TN-3Z

**Propeller T.C.:** P15EA

**Blade Model(s):** T10282N+4

T10282NK+4

**Prop Diameter:** 106.0" NO CUT OFF

### Prop Setup:

**Ref. Radius:** 30

**Reverse Angle:** -14.5 +-0.5

**Low Pitch Angle:** 19.0 +-0.2

**Stud Protrusion**

**Modifier:** Kendrick Brooks Davis

**Engine Model:** PT6A-114 (PT6A-114A, 208B)

**Power:** 675 HP @ 1900 RPM

**Placard/Restr:**

**Notes:** Engine Ratings Note: PT6A-114 (600hp)  
The aircraft minimum gross weight is 3000 lbs.

**Startlock Angle:** NA

**Feather/High Angle:** 86.0 +-0.5

**Cwt Angle:** -1.5 TO POS.

### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| Item Type                      | Item Number   | Description                       | Quantity | Qty Per | Comments                  |
|--------------------------------|---------------|-----------------------------------|----------|---------|---------------------------|
| PROPELLER                      | B3N10185      | HC-B3TN-3Z/T10282NK+4/DE-ICE      | 1        | A/C     |                           |
| PROPELLER                      | B3N10185S     | HC-B3TN-3Z/T10282NK+4/D4897-P     | 1        | A/C     |                           |
| PROPELLER                      | B3N10186      | HC-B3TN-3Z/T10282NK+4             | 1        | A/C     |                           |
| PROPELLER                      | B3N10187      | HC-B3TN-3Z/T10282N+4              | 1        | A/C     |                           |
| PROPELLER                      | B3N10187S     | HC-B3TN-3Z/T10282N+4/D-4897-P     | 1        | A/C     |                           |
| PROPELLER                      | B3N10187SKD   | HC-B3TN-3Z/T10282N+4/D-4897-P     | 1        | A/C     |                           |
| BLADE                          | T10282N+4     | PCP:BLADE UNIT, ALUM [1,1,1]      | 3        | Prop    |                           |
| BLADE                          | T10282NK+4    | PCP:BLADE UNIT, ALUMINUM          | 3        | Prop    |                           |
| SPINNER                        | D-4897-P      | SPINNER ASSEMBLY                  | 1        | Prop    |                           |
| SPIN MTG KIT                   | B-3384-4H     | BOLT, 1/4-28, HEX HEAD            | 12       | Prop    |                           |
| SPIN MTG KIT                   | B-3851-0432   | WASHER                            | 24       | Prop    |                           |
| SP MT KIT DE-ICE               | A-2070-10     | SCREW, 1/4-28, BUTTON HEAD        | 12       | Prop    |                           |
| SP MT KIT DE-ICE               | B-3808-4      | NUT, HEX, SELF-LOCKING            | 12       | Prop    |                           |
| SP MT KIT DE-ICE               | B-3837-0432   | WASHER, CORROSION RESISTANT       | 12       | Prop    |                           |
| SP MT KIT DE-ICE               | B-7077-52     | BELLEVILLE SPRING WASHER          | 24       | Prop    |                           |
| COUNTERWEIGHT SLUG A-3039      |               | SLUG, COUNTERWEIGHT               | 1        | Blade   |                           |
| COUNTERWEIGHT SLUG A-890-6     |               | PCP:SLUG, COUNTERWEIGHT           | 1        | Blade   | Primary                   |
| COUNTERWEIGHT SLUG A-890-8     |               | PCP:SLUG, COUNTERWEIGHT           | 1        | Blade   | Alternate                 |
| COUNTERWEIGHT SLUG A-890-9     |               | PCP:SLUG, COUNTERWEIGHT           | 1        | Blade   | Alternate                 |
| COUNTERWEIGHT SLUG B-3384-21H  |               | BOLT, 1/4-28, HEX HEAD            | 2        | Blade   |                           |
| COUNTERWEIGHT SLUG B-3851-0432 |               | WASHER                            | 2        | Blade   | Optional                  |
| COUNTERWEIGHT SLUG B-3851-0463 |               | WASHER                            | 2        | Blade   | Optional                  |
| DE-ICER                        | 4H2560-10     | DE-ICE BOOT                       | 1        | Blade   | Supersedes 7931-4E2560-10 |
| DE-ICE KIT PR                  | 7931-67-920-1 | DE-ICE KIT (ONE PROP)             | 1        | Prop    |                           |
| MTG BOLT/STUD                  | B-3339        | BOLT, MOUNTING, 9/16-18, 12 POINT | 8        | Prop    |                           |



# HARTZELL

## APPLICATION GUIDE

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**CESSNA**

**Model:** 208, 208A, 208B  
**Trade Name:** CARAVAN  
**Aircraft T.C./STC:** SA02092AK  
**Propeller Model:** HC-D4N-3R  
**Propeller T.C.:** P10NE

**IDS No.:** 1374      **Rev.:** 4      **IC Date:** 08/14/2015

**Modifier:** HARTZELL PROPELLER  
**Engine Model:** PT6A-114, -114A  
**Power:** 675 HP @ 1900 RPM  
**Placard/Restr:** Stabilized ground operation is prohibited between 440 and 1060 RPM. The propeller may be operated when feathered at or below 440 RPM.

**Blade Model(s):** D9511F  
 D9511F\*2  
 D9511FK\*2  
 D9511FK\*5  
**Prop Diameter:** 96.0" TO 95.0" MIN

**Notes:** Engine Ratings Note: PT6A-114 (600hp)

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** -10.0 +-0.5  
**Low Pitch Angle:** 16.0 +-0.1  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 86.1 +-0.5  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type      | Item Number     | Description                    | Quantity | Qty Per | Comments                       |
|----------------|-----------------|--------------------------------|----------|---------|--------------------------------|
| PROPELLER      | D4N00192        | HC-D4N-3R/D9511FK[*2]/BULKHEAD | 1        | A/C     |                                |
| PROPELLER      | D4N00192S       | HC-D4N-3R/D9511FK[*2]/D-630-3P | 1        | A/C     |                                |
| PROPELLER      | D4N00192SKD     | HC-D4N-3R/D9511FK[*2]/D-630-3P | 1        | A/C     |                                |
| PROPELLER      | D4N00192SKDTP   | D4N00192S/D-630-3P/B-6844-1    | 1        | A/C     |                                |
| PROPELLER      | D4N00192SKDTP*1 | D4N00192S/D-630-3P/B-6844      | 1        | A/C     |                                |
| PROPELLER      | D4N00192STP     | D4N00192S/D-630-3P/B-6844-1    | 1        | A/C     |                                |
| PROPELLER      | D4N00192STP*1   | D4N00192S/D-630-3P/B-6844      | 1        | A/C     |                                |
| PROPELLER      | D4N00193S       | HC-D4N-3R/D9511F/D-630-3P      | 1        | A/C     |                                |
| PROPELLER      | D4N00193SKD     | HC-D4N-3R/D9511F/D-630-3P      | 1        | A/C     |                                |
| PROPELLER      | D4N00193SKDTP   | D4N00193S/D-630-3P             | 1        | A/C     |                                |
| PROPELLER      | D4N00193STP     | D4N00193S/D-630-3P             | 1        | A/C     |                                |
| BLADE          | D9511F          | PCP:BLADE UNIT, ALUM [1,1,1]   | 4        | Prop    |                                |
| BLADE          | D9511F*2        | IDS Item                       | 4        | Prop    |                                |
| BLADE          | D9511FK*2       | PCP:BLADE UNIT, ALUM ( )3101-1 | 4        | Prop    |                                |
| BLADE          | D9511FK*5       | IDS ITEM, 4E3101-1             | 4        | Prop    |                                |
| SPINNER        | D-630-3P        | SPINNER ASSEMBLY               | 1        | Prop    |                                |
| COUNTERWEIGHT  | C-472-1         | PCP:COUNTERWEIGHT              | 1        | Blade   |                                |
| DE-ICER        | 4H3101-1        | DE-ICE BOOT, FOIL              | 1        | Blade   | Supersedes 7931-4E3101-1       |
| DE-ICE KIT PR  | 106298          | DE-ICE KIT (ONE PROP)          | 1        | Prop    | Supersedes 7931-67-931-1       |
| DE-ICE KIT PR  | 7931-67-931-1   | DE-ICE KIT (ONE PROP)          | 1        | Prop    | Superseded by 106298           |
| DE-ICE KIT A/F | B-6844          | HARDWARE, AIRFRAME, DE-ICE     | 1        | A/C     | ONLY WHEN REPLACING A MCCAULEY |
| DE-ICE KIT A/F | B-6844-1        | HARDWARE, AIRFRAME, DE-ICE     | 1        | A/C     | ONLY WHEN REPLACING A HARTZELL |
| MTG BOLT/STUD  | B-3339-1        | BOLT,MOUNTING,9/16-18,12 POINT | 8        | Prop    |                                |
| MISC ACCES     | A-3044          | BLOCK, BETA FEEDBACK- ASSEMBLY | 1        | Prop    |                                |
| OVERHAUL KIT   | HC-D4N-3R-OH    | O/H KIT                        | 1        | Prop    | For aftermarket use only       |

# HARTZELL

## APPLICATION GUIDE

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CESSNA

IDS No.: 1914      Rev.: 3      IC Date: 02/19/2020

**Model:** 208, 208A, 208B  
**Trade Name:** CARAVAN  
**Aircraft T.C./STC:** SA02181AK  
**Propeller Model:** HC-B3TN-3AFY  
**Propeller T.C.:** P15EA  
**Blade Model(s):** T10890CN-2  
 T10890CNK-2  
**Prop Diameter:** 106" TO 104"

**Modifier:** HARTZELL PROPELLER  
**Engine Model:** PT6A-114,-114A  
**Power:** 675 HP @ 1900 RPM  
**Placard/Restr:**  
**Notes:** Engine Ratings Note: PT6A-114 (600hp)  
 5E2715-2 KIT IS FOR HARTZELL OEM  
 FITTED AIRCRAFT; 5E2715-3 IS FOR  
 MCCAULEY OEM FITTED AIRCRAFT;  
 Spinner Assembly weight: 9.0 lbs, and 2.8  
 lbs for De-Ice.

### Prop Setup:

**Ref. Radius:** 42  
**Reverse Angle:** -21.0 +-0.5  
**Low Pitch Angle:** 8.0 +-0.2  
**Stud Protrusion**

**Startlock Angle:** -3.2 +-1.0  
**Feather/High Angle:** 79.0 +-1.0  
**Cwt Angle:** Positive

### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| Item Type          | Item Number     | Description                       | Quantity | Qty Per | Comments                  |
|--------------------|-----------------|-----------------------------------|----------|---------|---------------------------|
| PROPELLER          | B3N10010S       | HC-B3TN-3AFY/T10890CN-2/SPIN      | 1        | A/C     |                           |
| PROPELLER          | B3N10010SKD     | HC-B3TN-3AFY/T10890CN-2/SPIN      | 1        | A/C     |                           |
| PROPELLER          | B3N10010SKDTP   | B3N10010S/D-4897-P                | 1        | A/C     |                           |
| PROPELLER          | B3N10010STP     | B3N10010S/D-4897-P                | 1        | A/C     |                           |
| PROPELLER          | B3N10020S       | HC-B3TN-3AFY/T10890CNK-2/SPIN     | 1        | A/C     |                           |
| PROPELLER          | B3N10020SKD     | HC-B3TN-3AFY/T10890CNK-2/SPIN     | 1        | A/C     |                           |
| PROPELLER          | B3N10020SKDTP   | B3N10020S/D-4897-P/DE-ICE         | 1        | A/C     |                           |
| PROPELLER          | B3N10020SKDTP*1 | B3N10020S/D-4897-P/FULL DE-ICE    | 1        | A/C     |                           |
| PROPELLER          | B3N10020STP     | B3N10020S/D-4897-P/DE-ICE         | 1        | A/C     |                           |
| PROPELLER          | B3N10020STP*1   | B3N10020S/D-4897-P/FULL DE-ICE    | 1        | A/C     |                           |
| BLADE              | T10890CN-2      | PCP:BLADE UNIT, ALUMINUM          | 3        | Prop    |                           |
| BLADE              | T10890CNK-2     | PCP:BLADE UNIT, ALUM 4H2560-10    | 3        | Prop    |                           |
| SPINNER            | D-4897          | SPINNER ASSEMBLY                  | 1        | Prop    |                           |
| SPINNER            | D-4897-P        | SPINNER ASSEMBLY                  | 1        | Prop    |                           |
| SPIN MTG KIT       | B-3384-4H       | BOLT, 1/4-28, HEX HEAD            | 6        | Prop    |                           |
| SPIN MTG KIT       | B-3384-5H       | BOLT, 1/4-28, HEX HEAD            | 3        | Prop    |                           |
| SPIN MTG KIT       | B-3384-8H       | BOLT, 1/4-28, HEX HEAD            | 3        | Prop    |                           |
| SPIN MTG KIT       | B-3808-4        | NUT,HEX,SELF-LOCKING              | 12       | Prop    |                           |
| SPIN MTG KIT       | B-3851-0432     | WASHER                            | 24       | Prop    |                           |
| SP MT KIT DE-ICE   | A-2070-10       | SCREW, 1/4-28, BUTTON HEAD        | 9        | Prop    |                           |
| SP MT KIT DE-ICE   | A-2070-9        | SCREW, 1/4-28, BUTTON HEAD        | 3        | Prop    |                           |
| SP MT KIT DE-ICE   | B-3808-4        | NUT,HEX,SELF-LOCKING              | 12       | Prop    |                           |
| SP MT KIT DE-ICE   | B-3837-0432     | WASHER, CORROSION RESISTANT       | 12       | Prop    |                           |
| SP MT KIT DE-ICE   | B-7077-52       | BELLEVILLE SPRING WASHER          | 24       | Prop    |                           |
| COUNTERWEIGHT SLUG | B-3386-14H      | BOLT,3/8-24,HEX HEAD              | 2        | Blade   |                           |
| COUNTERWEIGHT SLUG | B-3663-1        | PCP:SLUG, COUNTERWEIGHT           | 1        | Blade   |                           |
| COUNTERWEIGHT SLUG | B-3834-0632     | WASHER                            | 2        | Blade   |                           |
| DE-ICER            | 4H2560-10       | DE-ICE BOOT                       | 1        | Blade   | Supersedes 7931-4E2560-10 |
| DE-ICE KIT PR      | 7931-5E2715-4   | DE-ICE KIT (ONE PROP)             | 1        | Prop    |                           |
| DE-ICE KIT A/F     | 7931-5E2715-2   | AIRFRAME DE-ICE KIT               | 1        | A/C     |                           |
| DE-ICE KIT A/F     | 7931-5E2715-3   | AIRFRAME DE-ICE KIT               | 1        | A/C     |                           |
| MTG BOLT/STUD      | B-3339          | BOLT, MOUNTING, 9/16-18, 12 POINT | 8        | Prop    |                           |
| MISC ACCES         | A-3044          | BLOCK, BETA FEEDBACK- ASSEMBLY    | 1        | Prop    |                           |

# HARTZELL

## APPLICATION GUIDE

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CESSNA

IDS No.: 2924 Rev.: 6 IC Date: 04/14/2016

**Model:** 208, 208B  
**Trade Name:** Caravan  
**Aircraft T.C./STC:** SA02357LA / SA02476LA  
**Propeller Model:** HC-E4N-3P  
**Propeller T.C.:** P10NE

**Modifier:** Blackhawk Modifications Inc.  
**Engine Model:** PT6A-42A  
**Power:** 850 HP @ 2000 RPM  
**Placard/Restr:** Stabilized ground operation is prohibited between 450 and 1050 RPM. The propeller may be operated when feathered at or below 450 RPM.

**Blade Model(s):** D9900  
D9900K

**Notes:** STC SA02476LA applies to Model 208.  
STC SA02357LA applies to model 208B;  
Refer to STC for applicability limits

**Prop Diameter:** 100"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** -10.0 +/- 0.5  
**Low Pitch Angle:** 17.3+/-0.1  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 86.1+/-0.5  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type      | Item Number | Description                    | Quantity | Qty Per | Comments             |
|----------------|-------------|--------------------------------|----------|---------|----------------------|
| PROPELLER      | E4N00169S   | HC-E4N-3P/D9900/D-630-3P       | 1        | A/C     |                      |
| PROPELLER      | E4N00169SKD | HC-E4N-3P/D9900/D-630-3P       | 1        | A/C     |                      |
| PROPELLER      | E4N00175S   | HC-E4N-3P/D9900K/D-630-3P      | 1        | A/C     |                      |
| PROPELLER      | E4N00175SKD | HC-E4N-3P/D9900K/D-630-3P      | 1        | Prop    |                      |
| BLADE          | D9900       | PCP:BLADE UNIT, ALUMINUM       | 4        | Prop    |                      |
| BLADE          | D9900K      | PCP:BLADE UNIT, ALUMINUM       | 4        | Prop    |                      |
| SPINNER        | D-630-3     | SPINNER ASSEMBLY               | 1        | Prop    |                      |
| SPINNER        | D-630-3P    | SPINNER ASSEMBLY               | 1        | Prop    |                      |
| SPIN MTG KIT   | A-2070-7    | SCREW, 1/4-28, BUTTON HEAD     | 8        | Prop    |                      |
| COUNTERWEIGHT  | C-472-1     | PCP:COUNTERWEIGHT              | 1        | Blade   |                      |
| DE-ICER        | 103505      | DE-ICE BOOT                    | 1        | Blade   |                      |
| DE-ICE KIT PR  | 103553      | DE-ICE KIT (ONE PROP)          | 1        | Prop    | Superseded by 106298 |
| DE-ICE KIT PR  | 106298      | DE-ICE KIT (ONE PROP)          | 1        | Prop    | Supersedes 103553    |
| DE-ICE KIT A/F | 103644      | AIRFRAME DE-ICE KIT            | 1        | A/C     |                      |
| MTG BOLT/STUD  | B-3339-1    | BOLT,MOUNTING,9/16-18,12 POINT | 8        | Prop    |                      |
| MISC ACCES     | A-3044      | BLOCK, BETA FEEDBACK- ASSEMBLY | 1        | Prop    |                      |

# HARTZELL

## APPLICATION GUIDE

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CESSNA

IDS No.: 3175      Rev.: 10      |      Date: 04/18/2022

**Model:** 208B  
**Trade Name:** Caravan  
**Aircraft T.C./STC:** A37CE  
**Propeller Model:** HC-B3TN-3AF  
**Propeller T.C.:** P15EA

**Modifier:**  
**Engine Model:** PT6A-140  
**Power:** 867 HP @ 1900 RPM  
**Placard/Restr:** With or without a cargo pod, and with wheels, skis, or floats. No operating restrictions. Note: The propeller reverse blade angle may not exceed -21° ± 0.5° as measured at the 42" blade station.

**Blade Model(s):** T10890CN-2  
 T10890CNB-2  
**Prop Diameter:** 106" to 104"

**Notes:** Propeller to be shipped with A-880-1 nut installed per Manual 118F.

**Prop Setup:**

**Ref. Radius:** 42  
**Reverse Angle:** -21.0+/- 0.5  
**Low Pitch Angle:** 8.5 +/- 0.2  
**Stud Protrusion**

**Startlock Angle:**  
**Feather/High Angle:** 78.4 +/- 0.5  
**Cwt Angle:** Positive

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type          | Item Number | Description                       | Quantity | Qty Per | Comments                              |
|--------------------|-------------|-----------------------------------|----------|---------|---------------------------------------|
| PROPELLER          | B3N21050    | HC-B3TN-3AF/T10890CN-2/BULK       | 1        | A/C     |                                       |
| PROPELLER          | B3N21050S   | HC-B3TN-3AF/T10890CN-2/D4897-P    | 1        | A/C     |                                       |
| PROPELLER          | B3N21050SKD | HC-B3TN-3AF/T10890CN-2/D4897-P    | 1        | A/C     |                                       |
| PROPELLER          | B3N21100    | HC-B3TN-3AF/T10890CNB-2           | 1        | A/C     |                                       |
| PROPELLER          | B3N21100S   | HC-B3TN-3AF/T10890CNB-2/SPIN      | 1        | A/C     |                                       |
| PROPELLER          | B3N21100SKD | HC-B3TN-3AF/T10890CNB-2/SPIN      | 1        | A/C     |                                       |
| BLADE              | T10890CN-2  | PCP:BLADE UNIT, ALUMINUM          | 3        | Prop    |                                       |
| BLADE              | T10890CNB-2 | PCP:BLADE UNIT, ALUMINUM          | 3        | Prop    |                                       |
| SPINNER            | D-4897      | SPINNER ASSEMBLY                  | 1        | Prop    |                                       |
| SPINNER            | D-4897-1P   | SPINNER ASSEMBLY                  | 1        | Prop    |                                       |
| SPINNER            | D-4897-P    | SPINNER ASSEMBLY                  | 1        | Prop    |                                       |
| SPIN MTG KIT       | B-3384-4H   | BOLT, 1/4-28, HEX HEAD            | 12       | Prop    | Qty. 6 for props w/ start locks       |
| SPIN MTG KIT       | B-3384-5H   | BOLT, 1/4-28, HEX HEAD            | 3        | Prop    | For Props w/ start locks only         |
| SPIN MTG KIT       | B-3384-8H   | BOLT, 1/4-28, HEX HEAD            | 3        | Prop    | For Props w/ start locks only         |
| SPIN MTG KIT       | B-3808-4    | NUT,HEX,SELF-LOCKING              | 12       | Prop    | For Props w/ start locks only         |
| SPIN MTG KIT       | B-3851-0432 | WASHER                            | 24       | Prop    | Qty. 12 for props w/o start locks     |
| COUNTERWEIGHT SLUG | A-890-6     | PCP:SLUG, COUNTERWEIGHT           | 1        | Blade   |                                       |
| COUNTERWEIGHT SLUG | B-3384-13H  | BOLT, 1/4-28, HEX HEAD            | 2        | Blade   |                                       |
| COUNTERWEIGHT SLUG | B-3386-14H  | BOLT,3/8-24,HEX HEAD              | 2        | Blade   |                                       |
| COUNTERWEIGHT SLUG | B-3834-0632 | WASHER                            | 2        | Blade   |                                       |
| COUNTERWEIGHT SLUG | C-6081      | PCP:SLUG, COUNTERWEIGHT           | 1        | Blade   |                                       |
| DE-ICER            | C-2131-13   | BOOT, ANTI-ICING                  | 1        | Blade   |                                       |
| DE-ICE KIT PR      | 105014      | ANTI-ICE KIT (ONE PROP)           | 1        | Prop    |                                       |
| MTG BOLT/STUD      | A-2048-2    | WASHER, MOUNTING, 9/16 " CSK      | 8        | Prop    | Mounting washer, included in prop BOM |
| MTG BOLT/STUD      | B-3339      | BOLT, MOUNTING, 9/16-18, 12 POINT | 8        | Prop    |                                       |
| MISC ACCES         | A-3044      | BLOCK, BETA FEEDBACK- ASSEMBLY    | 1        | Prop    |                                       |
| OVERHAUL KIT       | 105014-OH   | ANTI-ICE O/H KIT (ONE PROP)       | 1        | Prop    |                                       |

# HARTZELL

## APPLICATION GUIDE

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CESSNA

IDS No.: 2504 Rev.: 5 IC Date: 01/27/2020

**Model:** 208B  
**Trade Name:** SuperVan 900  
**Aircraft T.C./STC:** STC SA10841SC  
**Propeller Model:** HC-B4TN-5QL  
**Propeller T.C.:** P40EA

**Modifier:** TEXAS TURBINES  
**Engine Model:** TPE-331-12JR  
**Power:** 900 HP @ 1591 RPM  
**Placard/Restr:** Stabilized ground operation is prohibited below 1082 (68%) rpm and between 1352 (85%) and 1464 (92%) rpm.

**Blade Model(s):** LT10890NK  
**Prop Diameter:** 109.5" TO 107.5"

**Notes:** Reference HC-ASB-61-328 for replacement of LT10890N(K) blades with LT10891N(K). Reference also IDS-3093.

### Prop Setup:

**Ref. Radius:** 42  
**Reverse Angle:** -11.5 +-0.5  
**Low Pitch Angle:** NA

**Startlock Angle:** -1.4 +-0.1  
**Feather/High Angle:** 81.2 +-0.5  
**Cwt Angle:** 2.0 +-1.0

**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| Item Type                      | Item Number    | Description                       | Quantity | Qty Per | Comments  |
|--------------------------------|----------------|-----------------------------------|----------|---------|---|
| PROPELLER                      | B4N20902S      | HC-B4TN-5QL/LT10890NK/D3434-7P    | 1        | A/C     | Propeller no longer available for new production per HC-ASB-61-328. See IDS-3093. |
| PROPELLER                      | B4N20902SKD    | HC-B4TN-5QL/LT10890NK/D3434-7P    | 1        | A/C     | Propeller no longer available for new production per HC-ASB-61-328. See IDS-3093. |
| BLADE                          | LT10890NK      | PCP:BLADE UNIT, ALUMINUM          | 4        | Prop    | Superseded by LT10891N per HC-ASB-61-328  |
| SPINNER                        | D-3434-7       | SPINNER ASSEMBLY                  | 1        | Prop    |   |
| SPINNER                        | D-3434-7P      | SPINNER ASSEMBLY                  | 1        | Prop    |   |
| SPIN MTG KIT                   | B-3384-12H     | BOLT, 1/4-28, HEX HEAD            | 8        | Prop    |   |
| SPIN MTG KIT                   | B-3384-5H      | BOLT, 1/4-28, HEX HEAD            | 4        | Prop    |   |
| SPIN MTG KIT                   | B-3851-0432    | WASHER                            | 20       | Prop    |   |
| SP MT KIT DE-ICE               | B-3384-25H     | BOLT, 1/4-28, HEX HEAD            | 8        | Prop    |   |
| SP MT KIT DE-ICE               | B-3808-4       | NUT,HEX,SELF-LOCKING              | 12       | Prop    |   |
| SP MT KIT DE-ICE               | B-3837-0432    | WASHER, CORROSION RESISTANT       | 20       | Prop    |   |
| SP MT KIT DE-ICE               | B-3865-15A     | BOLT,1/4-28,HEX HEAD,CRES         | 4        | Prop    |   |
| COUNTERWEIGHT SLUG A-890-8     |                | PCP:SLUG, COUNTERWEIGHT           | 1        | Blade   |   |
| COUNTERWEIGHT SLUG B-3384-9H   |                | BOLT, 1/4-28, HEX HEAD            | 2        | Blade   |   |
| COUNTERWEIGHT SLUG B-3386-14H  |                | BOLT,3/8-24,HEX HEAD              | 2        | Blade   |   |
| COUNTERWEIGHT SLUG B-3663-1    |                | PCP:SLUG, COUNTERWEIGHT           | 1        | Blade   |   |
| COUNTERWEIGHT SLUG B-3834-0632 |                | WASHER                            | 2        | Blade   |   |
| COUNTERWEIGHT SLUG B-3851-0432 |                | WASHER                            | 2        | Blade   | Optional  |
| COUNTERWEIGHT SLUG B-3851-0463 |                | WASHER                            | 2        | Blade   | Optional  |
| DE-ICER                        | 4H2598-10      | DE-ICE BOOT                       | 1        | Blade   | Supersedes 7931-4E2598-10   |
| DE-ICE KIT PR                  | 7931-5E2792-1  | DE-ICE KIT (ONE PROP)             | 1        | Prop    |   |
| MTG BOLT/STUD                  | B-3339         | BOLT, MOUNTING, 9/16-18, 12 POINT | 8        | Prop    |   |
| MISC ACCES                     | A-6741-158     | EROSION TAPE, 2" WIDE, 108' RL    | 1        | Blade   | .02 OF 108 FT ROLL  |
| OVERHAUL KIT                   | HC-B4TN-5QL-OH | O/H KIT                           | 1        | Prop    | For aftermarket use only  |

# HARTZELL

## APPLICATION GUIDE

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CESSNA

IDS No.: 3093      Rev.: 5      IC Date: 07/06/2015

**Model:** 208B  
**Trade Name:** SuperVan 900  
**Aircraft T.C./STC:** SA10841SC  
**Propeller Model:** HC-B4TN-5(N,Q)L  
**Propeller T.C.:** P40EA

**Modifier:** Texas Turbines  
**Engine Model:** TPE-331-12JR  
**Power:** 900 HP @ 1591 RPM  
**Placard/Restr:** Stabilized ground operation is prohibited below 1082 (68%). The propeller reverse blade angle may not exceed (go lower than) -12°, including tolerance, as measured at the 42" radius.

**Blade Model(s):** LT10891N  
 LT10891NK  
**Prop Diameter:** 109.5" to 107.5"

**Notes:** -5NL used for props without de-ice, -5QL for props with de-ice

**Prop Setup:**

**Ref. Radius:** 42  
**Reverse Angle:** -11.5 +/- 0.5  
**Low Pitch Angle:** N/A

**Startlock Angle:** -1.4 +/- 0.1  
**Feather/High Angle:** 81.2 +/- 0.5  
**Cwt Angle:** 2.0 +/-1.0

**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type                      | Item Number    | Description                       | Quantity | Qty Per | Comments   |
|--------------------------------|----------------|-----------------------------------|----------|---------|--|
| PROPELLER                      | B4N10980S      | HC-B4TN-5NL/LT10891N/D-3434-7P    | 1        | A/C     | Prop assembly, spinner included, no de-ice hardware                              |
| PROPELLER                      | B4N10980SKD    | HC-B4TN-5NL/LT10891N/D-3434-7P    | 1        | A/C     | Prop assembly, spinner included, no de-ice hardware, disassembled for shipping   |
| PROPELLER                      | B4N21130S      | HC-B4TN-5QL/LT10891NK/D3434-7P    | 1        | A/C     | Prop assembly, spinner included, with de-ice hardware                            |
| PROPELLER                      | B4N21130SKD    | HC-B4TN-5QL/LT10891NK/D3434-7P    | 1        | A/C     | Prop assembly, spinner included, with de-ice hardware, disassembled for shipping |
| BLADE                          | LT10891N       | PCP:BLADE UNIT, ALUMINUM          | 4        | Prop    | Blade, no de-icer  |
| BLADE                          | LT10891NK      | PCP:BLADE UNIT, ALUMINUM          | 4        | Prop    | Blade with de-icer installed   |
| SPINNER                        | D-3434-7       | SPINNER ASSEMBLY                  | 1        | Prop    | Buffed spinner, surface suitable for paint                                       |
| SPINNER                        | D-3434-7P      | SPINNER ASSEMBLY                  | 1        | Prop    | Polished spinner   |
| SPIN MTG KIT                   | B-3384-12H     | BOLT, 1/4-28, HEX HEAD            | 8        | Prop    | Included with propeller  |
| SPIN MTG KIT                   | B-3384-5H      | BOLT, 1/4-28, HEX HEAD            | 4        | Prop    | Included with propeller  |
| SPIN MTG KIT                   | B-3851-0432    | WASHER                            | 20       | Prop    | Included with propeller  |
| SP MT KIT DE-ICE               | 102831         | BOLT, HEX, 1/4-28, CRS            | 4        | Prop    | Included in prop de-ice kit  |
| SP MT KIT DE-ICE               | B-3384-25H     | BOLT, 1/4-28, HEX HEAD            | 8        | Prop    | Included in prop de-ice kit  |
| SP MT KIT DE-ICE               | B-3808-4       | NUT,HEX,SELF-LOCKING              | 12       | Prop    | Included in prop de-ice kit  |
| SP MT KIT DE-ICE               | B-7076-42      | BELLEVILLE SPRING WASHER          | 36       | Prop    | Included in prop de-ice kit  |
| COUNTERWEIGHT SLUG A-890-8     |                | PCP:SLUG, COUNTERWEIGHT           | 1        | Blade   | Included with propeller  |
| COUNTERWEIGHT SLUG B-3384-9H   |                | BOLT, 1/4-28, HEX HEAD            | 2        | Blade   | Included with propeller  |
| COUNTERWEIGHT SLUG B-3386-14H  |                | BOLT,3/8-24,HEX HEAD              | 2        | Blade   | Included with propeller  |
| COUNTERWEIGHT SLUG B-3663-1    |                | PCP:SLUG, COUNTERWEIGHT           | 1        | Blade   | Included with propeller  |
| COUNTERWEIGHT SLUG B-3834-0632 |                | WASHER                            | 2        | Blade   | Included with propeller  |
| COUNTERWEIGHT SLUG B-3851-0432 |                | WASHER                            | 2        | Blade   | Optional   |
| COUNTERWEIGHT SLUG B-3851-0463 |                | WASHER                            | 2        | Blade   | Optional   |
| DE-ICER                        | 104286         | DE-ICE BOOT                       | 1        | Blade   |  |
| DE-ICE KIT PR                  | 104334-1       | DE-ICE KIT (ONE PROP)             | 1        | Prop    |  |
| MTG BOLT/STUD                  | B-3339         | BOLT, MOUNTING, 9/16-18, 12 POINT | 8        | Prop    | Included in prop BOM   |
| MISC ACCES                     | A-6741-158     | EROSION TAPE, 2" WIDE, 108' RL    | 0        | Blade   | Included in blade BOM  |
| OVERHAUL KIT                   | HC-B4TN-5NL-OH | O/H KIT                           | 1        | Prop    | For aftermarket use only   |
| OVERHAUL KIT                   | HC-B4TN-5QL-OH | O/H KIT                           | 1        | Prop    | For aftermarket use only   |

# HARTZELL

## APPLICATION GUIDE 159

CESSNA

**Model:** 210E thru 210J, T210F thru T210L  
**Trade Name:** Centurion  
**Aircraft T.C./STC:** SA02735CH

**Propeller Model:** HC-J3YF-1RF  
**Propeller T.C.:** P36EA  
**Blade Model(s):** F8068\*4  
 F8068B\*2  
**Prop Diameter:** 82" - 78"

**IDS No.:** 2945      **Rev.:** 1      **IC Date:** 03/17/2015  
**Modifier:** Vitatoo Aviation LLC  
**Engine Model:** TSIO-520-C, IO-520-A, IO-520-J, TSIO-520-H  
**Power:** 285 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:** 103307 Airframe De-ice : (T)210L s/n 21059503 thru 21061141.  
 103308 Airframe De-ice : T210L s/n 21061142 and up.

**Prop Setup:**

**Ref. Radius:** 30"  
**Reverse Angle:**  
**Low Pitch Angle:** 12.3+/-0.2  
**Stud Protrusion** 1.450 +/-0.030

**Startlock Angle:**  
**Feather/High Angle:** 32.0+/-1.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>            | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|-------------------------------|-----------------|----------------|-----------------|
| PROPELLER        | J3F00552           | HC-J3YF-1RF/F8068[*4]/SM44    | 1               | A/C            |                 |
| PROPELLER        | J3F00552KD         | HC-J3YF-1RF/F8068[*4]/SM44    | 1               | A/C            |                 |
| PROPELLER        | J3F00601           | HC-J3YF-1RF/F8068B[*2]/SM44   | 1               | A/C            |                 |
| PROPELLER        | J3F00601KD         | HC-J3YF-1RF/F8068B[*2]/SM44   | 1               | A/C            |                 |
| BLADE            | F8068*4            | PCP:BLADE UNIT, ALUM [6,16,5] | 3               | Prop           |                 |
| BLADE            | F8068B*2           | PCP:BLADE UNIT, ALUM 103258   | 3               | Prop           |                 |
| SPINNER          | C-4582-1           | SPINNER ASSEMBLY              | 1               | Prop           |                 |
| SPINNER          | C-4582-1P          | SPINNER ASSEMBLY              | 1               | Prop           |                 |
| SPIN MTG KIT     | A-2476-44          | SPINNER - MTG KIT             | 1               | Prop           |                 |
| DE-ICE KIT PR    | 103262             | DE-ICE KIT (ONE PROP)         | 1               | Prop           |                 |
| DE-ICE KIT A/F   | 103307             | AIRFRAME DE-ICE KIT           | 1               | A/C            | See Notes       |
| DE-ICE KIT A/F   | 103308             | AIRFRAME DE-ICE KIT           | 1               | A/C            | See Notes       |
| MTG BOLT/STUD    | A-2429-4           | STUD, MOUNTING, 1/2-20        | 6               | Prop           |                 |
| MTG BOLT/STUD    | A-2429-4           | STUD, MOUNTING, 1/2-20        | 6               | Prop           |                 |

# HARTZELL

## APPLICATION GUIDE 159

CESSNA

**Model:** 210E thru 210J, T210F thru T210L  
**Trade Name:** Centurion  
**Aircraft T.C./STC:** SA02821CH

**Propeller Model:** HC-J3YF-1RF  
**Propeller T.C.:** P36EA  
**Blade Model(s):** F8068\*4  
 F8068B\*2  
**Prop Diameter:** 82" - 78"

**IDS No.:** 3008      **Rev.:** 1      **BC Date:** 07/25/2014  
**Modifier:** Hartzell Propeller  
**Engine Model:** TSIO-520-C, IO-520-A, IO-520-J, TSIO-520-H  
**Power:** 285 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:** 103307 Airframe De-ice : (T)210L s/n 21059503 thru 21061141.  
 103308 Airframe De-ice : T210L s/n 21061142 and up.

**Prop Setup:**

**Ref. Radius:** 30"  
**Reverse Angle:**  
**Low Pitch Angle:** 12.3+/-0.2  
**Stud Protrusion** 1.450 +/-0.030

**Startlock Angle:**  
**Feather/High Angle:** 32.0+/-1.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>            | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|-------------------------------|-----------------|----------------|-----------------|
| PROPELLER        | J3F00552           | HC-J3YF-1RF/F8068[*4]/SM44    | 1               | A/C            |                 |
| PROPELLER        | J3F00552KD         | HC-J3YF-1RF/F8068[*4]/SM44    | 1               | A/C            |                 |
| PROPELLER        | J3F00601           | HC-J3YF-1RF/F8068B[*2]/SM44   | 1               | A/C            |                 |
| PROPELLER        | J3F00601KD         | HC-J3YF-1RF/F8068B[*2]/SM44   | 1               | A/C            |                 |
| BLADE            | F8068*4            | PCP:BLADE UNIT, ALUM [6,16,5] | 3               | Prop           |                 |
| BLADE            | F8068B*2           | PCP:BLADE UNIT, ALUM 103258   | 3               | Prop           |                 |
| SPINNER          | C-4582-1           | SPINNER ASSEMBLY              | 1               | Prop           |                 |
| SPINNER          | C-4582-1P          | SPINNER ASSEMBLY              | 1               | Prop           |                 |
| SPIN MTG KIT     | A-2476-44          | SPINNER - MTG KIT             | 1               | Prop           |                 |
| DE-ICE KIT PR    | 103262             | DE-ICE KIT (ONE PROP)         | 1               | Prop           |                 |
| DE-ICE KIT A/F   | 103307             | AIRFRAME DE-ICE KIT           | 1               | A/C            | See Notes       |
| DE-ICE KIT A/F   | 103308             | AIRFRAME DE-ICE KIT           | 1               | A/C            | See Notes       |
| MTG BOLT/STUD    | A-2429-4           | STUD, MOUNTING, 1/2-20        | 6               | Prop           |                 |



# HARTZELL

## APPLICATION GUIDE

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CESSNA

IDS No.: 2943 Rev.: - DM Date: 04/05/2010

**Model:** T210M, T210N, & P210N  
**Trade Name:** Centurion, Pressurized Centurion  
**Aircraft T.C./STC:** SA02735CH  
**Propeller Model:** HC-J3YF-1RF  
**Propeller T.C.:** P36EA  
**Blade Model(s):** F8068\*4  
 F8068B\*2  
**Prop Diameter:** 82"-78"

**Modifier:** Vitatoo Aviation LLC  
**Engine Model:** TSIO-520-R, -P, -AF  
**Power:** 310 HP @ 2700 RPM  
**Placard/Restr:** None  
**Notes:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** 13.0 +-0.2  
**Stud Protrusion** 1.450 +-0.030

**Startlock Angle:**  
**Feather/High Angle:** 32.0 +-1.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>            | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>      |
|------------------|--------------------|-------------------------------|-----------------|----------------|----------------------|
| PROPELLER        | J3F00551           | HC-J3YF-1RF/F8068[*4]/SM44    | 1               | A/C            |                      |
| PROPELLER        | J3F00551KD         | HC-J3YF-1RF/F8068[*4]/SM44    | 1               | A/C            |                      |
| PROPELLER        | J3F00602           | HC-J3YF-1RF/F8068B[*2]/SM44   | 1               | A/C            |                      |
| PROPELLER        | J3F00602KD         | HC-J3YF-1RF/F8068B[*2]/SM44   | 1               | A/C            |                      |
| BLADE            | F8068*4            | PCP:BLADE UNIT, ALUM [6,16,5] | 3               | Prop           |                      |
| BLADE            | F8068B*2           | PCP:BLADE UNIT, ALUM 103258   | 3               | Prop           |                      |
| SPINNER          | C-4582-1           | SPINNER ASSEMBLY              | 1               | Prop           |                      |
| SPINNER          | C-4582-1P          | SPINNER ASSEMBLY              | 1               | Prop           |                      |
| SPIN MTG KIT     | A-2476-44          | SPINNER - MTG KIT             | 1               | Prop           |                      |
| DE-ICER          | 103258             | DE-ICE BOOT                   | 1               | Blade          |                      |
| DE-ICE KIT PR    | 103262             | DE-ICE KIT (ONE PROP)         | 1               | Prop           |                      |
| DE-ICE KIT A/F   | 103308             | AIRFRAME DE-ICE KIT           | 1               | A/C            | T210 M, N, and P210N |
| MTG BOLT/STUD    | A-2429-4           | STUD, MOUNTING, 1/2-20        | 6               | Prop           |                      |
| MTG BOLT/STUD    | A-2429-4           | STUD, MOUNTING, 1/2-20        | 6               | Prop           |                      |

# HARTZELL

## APPLICATION GUIDE 159

CESSNA

IDS No.: 3007 Rev.: 1 BC Date: 07/25/2014

**Model:** T210M, T210N, & P210N  
**Trade Name:** Centurion, Pressurized Centurion  
**Aircraft T.C./STC:** SA02821CH  
**Propeller Model:** HC-J3YF-1RF  
**Propeller T.C.:** P36EA  
**Blade Model(s):** F8068\*4  
 F8068B\*2  
**Prop Diameter:** 82"-78"

**Modifier:** Hartzell Propeller  
**Engine Model:** TSIO-520-R, -P, -AF  
**Power:** 310 HP @ 2700 RPM  
**Placard/Restr:** None  
**Notes:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** 13.0 +-0.2  
**Stud Protrusion** 1.450 +-0.030

**Startlock Angle:**  
**Feather/High Angle:** 32.0 +-1.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>            | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>      |
|------------------|--------------------|-------------------------------|-----------------|----------------|----------------------|
| PROPELLER        | J3F00551           | HC-J3YF-1RF/F8068[*4]/SM44    | 1               | A/C            |                      |
| PROPELLER        | J3F00551KD         | HC-J3YF-1RF/F8068[*4]/SM44    | 1               | A/C            |                      |
| PROPELLER        | J3F00602           | HC-J3YF-1RF/F8068B[*2]/SM44   | 1               | A/C            |                      |
| PROPELLER        | J3F00602KD         | HC-J3YF-1RF/F8068B[*2]/SM44   | 1               | A/C            |                      |
| BLADE            | F8068*4            | PCP:BLADE UNIT, ALUM [6,16,5] | 3               | Prop           |                      |
| BLADE            | F8068B*2           | PCP:BLADE UNIT, ALUM 103258   | 3               | Prop           |                      |
| SPINNER          | C-4582-1           | SPINNER ASSEMBLY              | 1               | Prop           |                      |
| SPINNER          | C-4582-1P          | SPINNER ASSEMBLY              | 1               | Prop           |                      |
| SPIN MTG KIT     | A-2476-44          | SPINNER - MTG KIT             | 1               | Prop           |                      |
| DE-ICER          | 103258             | DE-ICE BOOT                   | 1               | Blade          |                      |
| DE-ICE KIT PR    | 103262             | DE-ICE KIT (ONE PROP)         | 1               | Prop           |                      |
| DE-ICE KIT A/F   | 103308             | AIRFRAME DE-ICE KIT           | 1               | A/C            | T210 M, N, and P210N |
| MTG BOLT/STUD    | A-2429-4           | STUD, MOUNTING, 1/2-20        | 6               | Prop           |                      |

# HARTZELL

## APPLICATION GUIDE

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CESSNA

IDS No.: 2947 Rev.: - DM Date: 04/05/2010

**Model:** ( )210( )  
**Trade Name:** Centurion, Turbo Centurion  
**Aircraft T.C./STC:** SA02735CH  
**Propeller Model:** HC-J3YF-1RF  
**Propeller T.C.:** P36EA  
**Blade Model(s):** F8068\*4  
 F8068B\*2  
**Prop Diameter:** 82.0" TO 78.0"

**Modifier:** Vitatoo Aviation LLC  
**Engine Model:** IO-550-L  
**Power:** 300 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:** Eligible on John Jewell Aircraft STC's SA00274AT, SA03141AT, Atlantic Aero STC SA3104SO, and Texas Skyways STC SA09952SC. Airframe De-ice Kit 103307 (T)210L s/n 21059503 thru 21061141. Airframe De-ice kit 103308 (T)210L, M, N s/n 21061142 and up.

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** 13.0 +-0.2  
**Stud Protrusion** 1.450 +-0.030

**Startlock Angle:**  
**Feather/High Angle:** 32.0 +-1.0  
**Cwt Angle:**

### Non-HPI Items:

Non-HPI Spinner:

Non-HPI Governor:

### Hartzell Approved Items:

| Item Type      | Item Number | Description                   | Quantity | Qty Per | Comments                    |
|----------------|-------------|-------------------------------|----------|---------|-----------------------------|
| PROPELLER      | J3F00551    | HC-J3YF-1RF/F8068[*4]/SM44    | 1        | A/C     |                             |
| PROPELLER      | J3F00551KD  | HC-J3YF-1RF/F8068[*4]/SM44    | 1        | A/C     |                             |
| PROPELLER      | J3F00602    | HC-J3YF-1RF/F8068B[*2]/SM44   | 1        | A/C     |                             |
| PROPELLER      | J3F00602KD  | HC-J3YF-1RF/F8068B[*2]/SM44   | 1        | A/C     |                             |
| BLADE          | F8068*4     | PCP:BLADE UNIT, ALUM [6,16,5] | 3        | Prop    |                             |
| BLADE          | F8068B*2    | PCP:BLADE UNIT, ALUM 103258   | 3        | Prop    |                             |
| SPINNER        | C-4582-1    | SPINNER ASSEMBLY              | 1        | Prop    |                             |
| SPINNER        | C-4582-1P   | SPINNER ASSEMBLY              | 1        | Prop    |                             |
| SPINNER        | D-5732      | IDS Item                      | 0        |         | Eligible STC SA09952SC only |
| SPINNER        | D-5732-P    | SPINNER ASSEMBLY              | 1        | Prop    | Eligible STC SA09952SC only |
| SPIN MTG KIT   | A-2476-44   | SPINNER - MTG KIT             | 1        | Prop    |                             |
| SPIN MTG KIT   | A-2476-9    | SPINNER - MTG KIT             | 1        | Prop    | Use with D-5732-(P) only    |
| DE-ICER        | 103258      | DE-ICE BOOT                   | 1        | Blade   |                             |
| DE-ICE KIT PR  | 103262      | DE-ICE KIT (ONE PROP)         | 1        | Prop    |                             |
| DE-ICE KIT A/F | 103307      | AIRFRAME DE-ICE KIT           | 1        | A/C     | See Notes                   |
| DE-ICE KIT A/F | 103308      | AIRFRAME DE-ICE KIT           | 1        | A/C     | See Notes                   |
| MTG BOLT/STUD  | A-2429-4    | STUD, MOUNTING, 1/2-20        | 6        | Prop    |                             |
| MTG BOLT/STUD  | A-2429-4    | STUD, MOUNTING, 1/2-20        | 6        | Prop    |                             |

# HARTZELL

## APPLICATION GUIDE 159

CESSNA

IDS No.: 3010 Rev.: 1 BC Date: 07/25/2014

**Model:** ( )210( )  
**Trade Name:** Centurion, Turbo Centurion  
**Aircraft T.C./STC:** SA02821CH  
**Propeller Model:** HC-J3YF-1RF  
**Propeller T.C.:** P36EA  
**Blade Model(s):** F8068\*4  
 F8068B\*2  
**Prop Diameter:** 82.0" TO 78.0"

**Modifier:** Hartzell Propeller  
**Engine Model:** IO-550-L  
**Power:** 300 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:** Eligible on John Jewell Aircraft STC's SA00274AT, SA03141AT, Atlantic Aero STC SA3104SO, and Texas Skyways STC SA09952SC. Airframe De-ice Kit 103307 (T)210L s/n 21059503 thru 21061141. Airframe De-ice kit 103308 (T)210L, M, N s/n 21061142 and up.

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** 13.0 +-0.2  
**Stud Protrusion** 1.450 +-0.030

**Startlock Angle:**  
**Feather/High Angle:** 32.0 +-1.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type      | Item Number | Description                   | Quantity | Qty Per | Comments                    |
|----------------|-------------|-------------------------------|----------|---------|-----------------------------|
| PROPELLER      | J3F00551    | HC-J3YF-1RF/F8068[*4]/SM44    | 1        | A/C     |                             |
| PROPELLER      | J3F00551KD  | HC-J3YF-1RF/F8068[*4]/SM44    | 1        | A/C     |                             |
| PROPELLER      | J3F00602    | HC-J3YF-1RF/F8068B[*2]/SM44   | 1        | A/C     |                             |
| PROPELLER      | J3F00602KD  | HC-J3YF-1RF/F8068B[*2]/SM44   | 1        | A/C     |                             |
| BLADE          | F8068*4     | PCP:BLADE UNIT, ALUM [6,16,5] | 3        | Prop    |                             |
| BLADE          | F8068B*2    | PCP:BLADE UNIT, ALUM 103258   | 3        | Prop    |                             |
| SPINNER        | C-4582-1    | SPINNER ASSEMBLY              | 1        | Prop    |                             |
| SPINNER        | C-4582-1P   | SPINNER ASSEMBLY              | 1        | Prop    |                             |
| SPINNER        | D-5732      | IDS Item                      | 0        |         | Eligible STC SA09952SC only |
| SPINNER        | D-5732-P    | SPINNER ASSEMBLY              | 1        | Prop    | Eligible STC SA09952SC only |
| SPIN MTG KIT   | A-2476-44   | SPINNER - MTG KIT             | 1        | Prop    |                             |
| SPIN MTG KIT   | A-2476-9    | SPINNER - MTG KIT             | 1        | Prop    | Use with D-5732-(P) only    |
| DE-ICER        | 103258      | DE-ICE BOOT                   | 1        | Blade   |                             |
| DE-ICE KIT PR  | 103262      | DE-ICE KIT (ONE PROP)         | 1        | Prop    |                             |
| DE-ICE KIT A/F | 103307      | AIRFRAME DE-ICE KIT           | 1        | A/C     | See Notes                   |
| DE-ICE KIT A/F | 103308      | AIRFRAME DE-ICE KIT           | 1        | A/C     | See Notes                   |
| MTG BOLT/STUD  | A-2429-4    | STUD, MOUNTING, 1/2-20        | 6        | Prop    |                             |

# HARTZELL

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**CESSNA**

**Model:** 210, A, B, C, 5, 5A  
**Trade Name:** CENTURION  
**Aircraft T.C./STC:** 3A21  
**Propeller Model:** HC-82XF-1, HCA2XF-1, HC-82XF-1A, HC-A2XF-1A  
**Propeller T.C.:** P24EA  
**Blade Model(s):** 8433-2  
**Prop Diameter:** 82.3" TO 80"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.5 +- 0.2  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:** CESSNA

**IDS No.:** 2154      **Rev.:** -      **DM Date:** 11/20/2003

**Modifier:**  
**Engine Model:** IO-470-E, -S  
**Power:** 260 HP @ 2625 RPM  
**Placard/Restr:**

**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 28.0 MIN  
**Cwt Angle:** Positive

**Non-HPI Governor:** WOODWARD

**Hartzell Approved Items:**

| Item Type     | Item Number | Description                   | Quantity | Qty Per | Comments |
|---------------|-------------|-------------------------------|----------|---------|----------|
| BLADE         | 8433-2      | BLADE                         | 2        | Prop    |          |
| SPINNER       | 835-13      | SPINNER ASSEMBLY              | 1        | Prop    |          |
| MTG BOLT/STUD | A-1328-1    | BOLT,MOUNTING,1/2-20,12 POINT | 6        | Prop    |          |

**CESSNA**

**Model:** 210, A, B, C, 5, 5A  
**Trade Name:** CENTURION  
**Aircraft T.C./STC:** 3A21  
**Propeller Model:** HC-82VF-1, HC-A2VF-1, HC-82VF-1A, HC-A2VF-1A  
**Propeller T.C.:** P24EA  
**Blade Model(s):** V8433-2  
V8433N-2  
**Prop Diameter:** 82.3" TO 80"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.5 +- 0.2  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:** CESSNA

**IDS No.:** 2156      **Rev.:** -      **DM Date:** 11/20/2003

**Modifier:**  
**Engine Model:** IO-470-E, -S  
**Power:** 260 HP @ 2625 RPM  
**Placard/Restr:**

**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 28.0 MIN  
**Cwt Angle:** Positive

**Non-HPI Governor:** WOODWARD

**Hartzell Approved Items:**

| Item Type     | Item Number | Description                   | Quantity | Qty Per | Comments |
|---------------|-------------|-------------------------------|----------|---------|----------|
| BLADE         | V8433-2     | BLADE                         | 2        | Prop    |          |
| BLADE         | V8433N-2    | BLADE                         | 2        | Prop    |          |
| SPINNER       | 835-13      | SPINNER ASSEMBLY              | 1        | Prop    |          |
| MTG BOLT/STUD | A-1328-1    | BOLT,MOUNTING,1/2-20,12 POINT | 6        | Prop    |          |

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**CESSNA**

**Model:** 210, A, B, C, 5, 5A  
**Trade Name:** CENTURION  
**Aircraft T.C./STC:** 3A21  
**Propeller Model:** HC-A2MVF-1A  
**Propeller T.C.:** P24EA  
**Blade Model(s):** MV8433N-2  
**Prop Diameter:** 82.3" TO 80"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.5 +- 0.2  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:** CESSNA

**IDS No.:** 403      **Rev.:** 2      **IC Date:** 07/06/2015

**Modifier:**  
**Engine Model:** IO-470-E, -S  
**Power:** 260 HP @ 2625 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 28.0 MIN  
**Cwt Angle:** Positive

**Non-HPI Governor:** WOODWARD

**Hartzell Approved Items:**

| Item Type     | Item Number    | Description                      | Quantity | Qty Per | Comments                 |
|---------------|----------------|----------------------------------|----------|---------|--------------------------|
| PROPELLER     | A2F10019       | HC-A2MVF-1A/MV8433N-2            | 1        | A/C     |                          |
| BLADE         | MV8433N-2      | PCP:BLADE UNIT, ALUMINUM         | 2        | Prop    |                          |
| SPINNER       | 835-13         | SPINNER ASSEMBLY                 | 1        | Prop    |                          |
| MTG BOLT/STUD | A-1328-1       | BOLT, MOUNTING, 1/2-20, 12 POINT | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-A2MVF-1A-OH | O/H KIT                          | 1        | Prop    | For aftermarket use only |

**CESSNA**

**Model:** 210, A,B,C,-5,-5A  
**Trade Name:** CENTURION  
**Aircraft T.C./STC:** SA02246CH-D  
**Propeller Model:** HC-C2YF-1BF  
**Propeller T.C.:** P-920  
**Blade Model(s):** F8468A-2\*1  
**Prop Diameter:** 82" TO 80"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** 13.5 +-0.2  
**Stud Protrusion** 1.450 +-0.030

**Non-HPI Items:**

**Non-HPI Spinner:**

**IDS No.:** 2525      **Rev.:** 2      **IC Date:** 07/07/2015

**Modifier:** HARTZELL PROPELLER  
**Engine Model:** IO-470-E,-S  
**Power:** 260 HP @ 2625 RPM  
**Placard/Restr:**  
**Notes:** Governor change required if replacing Hartzell steel-hub Propeller

**Startlock Angle:**  
**Feather/High Angle:** 28.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:** McCauley or Woodward/Ontic

**Hartzell Approved Items:**

| Item Type     | Item Number    | Description                   | Quantity | Qty Per | Comments                 |
|---------------|----------------|-------------------------------|----------|---------|--------------------------|
| PROPELLER     | C2F00355       | HC-C2YF-1BF/F8468A-2[*1]/SM16 | 1        | A/C     |                          |
| PROPELLER     | C2F00355STP    | C2F00355/SM16/C-3568-P        | 1        | A/C     |                          |
| BLADE         | F8468A-2*1     | PCP:BLADE UNIT, ALUM [6,1,1]  | 2        | Prop    |                          |
| SPINNER       | C-3568         | SPINNER ASSEMBLY              | 1        | A/C     |                          |
| SPINNER       | C-3568-P       | SPINNER ASSEMBLY              | 1        | A/C     |                          |
| SPIN MTG KIT  | A-2476-16      | SPINNER - MTG KIT             | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2429-4       | STUD, MOUNTING, 1/2-20        | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-C2YF-1BF-OH | O/H KIT                       | 1        | Prop    | For aftermarket use only |

# HARTZELL

## APPLICATION GUIDE

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CESSNA

IDS No.: 2431 Rev.: 2 IC Date: 07/16/2015

Model: 210D  
 Trade Name: CENTURION  
 Aircraft T.C./STC: SA09952SC  
 Propeller Model: PHC-C3YF-1RF  
 Propeller T.C.: P25EA  
 Blade Model(s): F8068-2  
 Prop Diameter: 80"

Modifier: TEXAS SKYWAYS  
 Engine Model: IO-550-F  
 Power: 300 HP @ 2700 RPM  
 Placard/Restr:  
 Notes:

**Prop Setup:**

Ref. Radius: 30  
 Reverse Angle: NA  
 Low Pitch Angle: 12.5 +-0.1  
 Stud Protrusion 1.450 +-0.030

Startlock Angle: NA  
 Feather/High Angle: 31.0 +-1.0  
 Cwt Angle:

**Non-HPI Items:**

Non-HPI Spinner:

Non-HPI Governor:

**Hartzell Approved Items:**

| Item Type     | Item Number     | Description                  | Quantity | Qty Per | Comments                                   |
|---------------|-----------------|------------------------------|----------|---------|--|
| PROPELLER     | C3F00037        | PHC-C3YF-1RF/F8068-2/SM25    | 1        | A/C     |  |
| PROPELLER     | C3F00037KD      | PHC-C3YF-1RF/F8068-2/SM25    | 1        | A/C     |  |
| BLADE         | F8068-2         | PCP:BLADE UNIT, ALUM [1,1,5] | 3        | Prop    |  |
| SPINNER       | D-5732-P        | SPINNER ASSEMBLY             | 1        | A/C     |  |
| SPIN MTG KIT  | A-2476-25       | SPINNER - MTG KIT            | 1        | Prop    |  |
| MTG BOLT/STUD | A-2429-4        | STUD, MOUNTING, 1/2-20       | 6        | Prop    | Use w/E-7154-2R Hub Only                   |
| MTG BOLT/STUD | A-2429-7        | STUD, MOUNTING, 1/2-20       | 6        | Prop    | Use with E-7154-12R & E-7154-42R hubs only |
| OVERHAUL KIT  | PHC-C3YF-1RF*1  | O/H KIT W/O SLIMSERTS        | 1        | Prop    | For aftermarket use only                   |
| OVERHAUL KIT  | PHC-C3YF-1RF-OH | O/H KIT                      | 1        | Prop    | For aftermarket use only                   |

# HARTZELL

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**CESSNA**

**Model:** 210-D  
**Trade Name:** CENTURION  
**Aircraft T.C./STC:** SA09952SC  
**Propeller Model:** PHC-C3YF-1RF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** F8068  
**Prop Diameter:** 82"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.5 +-0.1  
**Stud Protrusion** 1.450 +-0.030

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number     | Description                  | Quantity | Qty Per | Comments                                   |
|---------------|-----------------|------------------------------|----------|---------|--|
| PROPELLER     | C3F00002        | PHC-C3YF-1RF/F8068/SM7       | 1        | A/C     |  |
| PROPELLER     | C3F00002KD      | PHC-C3YF-1RF/F8068/SM7       | 1        | A/C     |  |
| BLADE         | F8068           | PCP:BLADE UNIT, ALUM [1,1,5] | 3        | Prop    |  |
| SPINNER       | D-5732-P        | SPINNER ASSEMBLY             | 1        | A/C     |  |
| SPIN MTG KIT  | A-2476-7        | SPINNER - MTG KIT            | 1        | Prop    |  |
| MTG BOLT/STUD | A-2429-4        | STUD, MOUNTING, 1/2-20       | 6        | Prop    | Use w/E-7154-2R Hub Only                   |
| MTG BOLT/STUD | A-2429-7        | STUD, MOUNTING, 1/2-20       | 6        | Prop    | Use with E-7154-12R & E-7154-42R hubs only |
| OVERHAUL KIT  | PHC-C3YF-1RF*1  | O/H KIT W/O SLIMSERTS        | 1        | Prop    | For aftermarket use only                   |
| OVERHAUL KIT  | PHC-C3YF-1RF-OH | O/H KIT                      | 1        | Prop    | For aftermarket use only                   |

**IDS No.:** 2434      **Rev.:** 2      **IC**    **Date:** 07/16/2015

**Modifier:** TEXAS SKYWAYS  
**Engine Model:** IO-550-F  
**Power:** 300 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 31.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

**CESSNA**

**Model:** 210E,F,G,H  
**Trade Name:** CENTURION  
**Aircraft T.C./STC:** SA09952SC  
**Propeller Model:** PHC-J3YF-1RF  
**Propeller T.C.:** P36EA  
**Blade Model(s):** F8068-2  
**Prop Diameter:** 80"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.5 +-0.1  
**Stud Protrusion** 1.450 +-0.030

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number     | Description                  | Quantity | Qty Per | Comments                 |
|---------------|-----------------|------------------------------|----------|---------|--------------------------|
| PROPELLER     | J3F10700        | PHC-J3YF-1RF/F8068-2/SM9     | 1        | A/C     |                          |
| PROPELLER     | J3F10700KD      | PHC-J3YF-1RF/F8068-2/SM9     | 1        | A/C     |                          |
| BLADE         | F8068-2         | PCP:BLADE UNIT, ALUM [1,1,5] | 3        | Prop    |                          |
| SPINNER       | D-5732-P        | SPINNER ASSEMBLY             | 1        | A/C     |                          |
| SPIN MTG KIT  | A-2476-9        | SPINNER - MTG KIT            | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2429-4        | STUD, MOUNTING, 1/2-20       | 6        | Prop    |                          |
| OVERHAUL KIT  | PHC-J3YF-1RF-OH | O/H KIT                      | 1        | Prop    | For aftermarket use only |

**IDS No.:** 2432      **Rev.:** 1      **IC**    **Date:** 07/16/2015

**Modifier:** TEXAS SKYWAYS  
**Engine Model:** IO-550-F  
**Power:** 300 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 31.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**



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CESSNA

**Model:** 210E,F,G,H  
**Trade Name:** CENTURION  
**Aircraft T.C./STC:** SA09952SC  
**Propeller Model:** PHC-J3YF-1RF  
**Propeller T.C.:** P36EA  
**Blade Model(s):** F8068  
**Prop Diameter:** 82"

**IDS No.:** 2435      **Rev.:** 1      **IC Date:** 07/16/2015

**Modifier:** TEXAS SKYWAYS  
**Engine Model:** IO-550-F  
**Power:** 300 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.5 +-0.1  
**Stud Protrusion:** 1.450 +-0.030

**Startlock Angle:** NA  
**Feather/High Angle:** 31.0 +- 1.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type     | Item Number     | Description                  | Quantity | Qty Per | Comments                 |
|---------------|-----------------|------------------------------|----------|---------|--------------------------|
| PROPELLER     | J3F10690        | PHC-J3YF-1RF/F8068/SM9       | 1        | A/C     |                          |
| PROPELLER     | J3F10690KD      | PHC-J3YF-1RF/F8068/SM9       | 1        | A/C     |                          |
| BLADE         | F8068           | PCP:BLADE UNIT, ALUM [1,1,5] | 3        | Prop    |                          |
| SPINNER       | D-5732-P        | SPINNER ASSEMBLY             | 1        | A/C     |                          |
| SPIN MTG KIT  | A-2476-9        | SPINNER - MTG KIT            | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2429-4        | STUD, MOUNTING, 1/2-20       | 6        | Prop    |                          |
| OVERHAUL KIT  | PHC-J3YF-1RF-OH | O/H KIT                      | 1        | Prop    | For aftermarket use only |

CESSNA

**Model:** 210F-J  
**Trade Name:** CENTURION  
**Aircraft T.C./STC:** SA02319CH-D  
**Propeller Model:** HC-J3YF-1RF  
**Propeller T.C.:** P36EA  
**Blade Model(s):** F7691+2  
**Prop Diameter:** 80-78"

**IDS No.:** 2576      **Rev.:** -      **DM Date:** 10/31/2006

**Modifier:** HARTZELL PROPELLER  
**Engine Model:** IO-520-A, -J  
**Power:** 285 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** 15.3 +-0.2  
**Stud Protrusion:** 1.450+-0.030

**Startlock Angle:**  
**Feather/High Angle:** 32.0 +-1.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type     | Item Number   | Description                  | Quantity | Qty Per | Comments |
|---------------|---------------|------------------------------|----------|---------|----------|
| PROPELLER     | J3F00200      | HC-J3YF-1RF/F7691+2/SM44     | 1        | A/C     |          |
| PROPELLER     | J3F00200KD    | HC-J3YF-1RF/F7691+2/SM44     | 1        | A/C     |          |
| PROPELLER     | J3F00200SKDTP | J3F00200/SM44/C-4582-P       | 1        | A/C     |          |
| PROPELLER     | J3F00200STP   | J3F00200/SM44/C-4582-P       | 1        | A/C     |          |
| BLADE         | F7691+2       | PCP:BLADE UNIT, ALUM [6,1,5] | 3        | Prop    |          |
| SPINNER       | C-4582        | SPINNER ASSEMBLY             | 1        | A/C     |          |
| SPINNER       | C-4582-P      | SPINNER ASSEMBLY             | 1        | A/C     |          |
| SPIN MTG KIT  | A-2476-44     | SPINNER - MTG KIT            | 1        | Prop    |          |
| MTG BOLT/STUD | A-2429-4      | STUD, MOUNTING, 1/2-20       | 6        | Prop    |          |

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CESSNA

**Model:** 210-J,K,L,M,N,R  
**Trade Name:** CENTURION  
**Aircraft T.C./STC:** SA09952SC  
**Propeller Model:** PHC-J3YF-1RF  
**Propeller T.C.:** P36EA  
**Blade Model(s):** F8068  
**Prop Diameter:** 82"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.5 +-0.1  
**Stud Protrusion** 1.450 +-0.030

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number     | Description                  | Quantity | Qty Per | Comments                 |
|---------------|-----------------|------------------------------|----------|---------|--------------------------|
| PROPELLER     | J3F10690        | PHC-J3YF-1RF/F8068/SM9       | 1        | A/C     |                          |
| PROPELLER     | J3F10690KD      | PHC-J3YF-1RF/F8068/SM9       | 1        | A/C     |                          |
| BLADE         | F8068           | PCP:BLADE UNIT, ALUM [1,1,5] | 3        | Prop    |                          |
| SPINNER       | D-5732-P        | SPINNER ASSEMBLY             | 1        | A/C     |                          |
| SPIN MTG KIT  | A-2476-9        | SPINNER - MTG KIT            | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2429-4        | STUD, MOUNTING, 1/2-20       | 6        | Prop    |                          |
| OVERHAUL KIT  | PHC-J3YF-1RF-OH | O/H KIT                      | 1        | Prop    | For aftermarket use only |

**IDS No.:** 2436      **Rev.:** 1      **IC**      **Date:** 07/16/2015

**Modifier:** TEXAS SKYWAYS  
**Engine Model:** IO-550-F  
**Power:** 300 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 31.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

CESSNA

**Model:** 210-J,K,L,M,N,R  
**Trade Name:** CENTURION  
**Aircraft T.C./STC:** SA09952SC  
**Propeller Model:** PHC-J3YF-1RF  
**Propeller T.C.:** P36EA  
**Blade Model(s):** F8068-2  
**Prop Diameter:** 80"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.5 +-0.1  
**Stud Protrusion** 1.450 +-0.030

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number     | Description                  | Quantity | Qty Per | Comments                 |
|---------------|-----------------|------------------------------|----------|---------|--------------------------|
| PROPELLER     | J3F10700        | PHC-J3YF-1RF/F8068-2/SM9     | 1        | A/C     |                          |
| PROPELLER     | J3F10700KD      | PHC-J3YF-1RF/F8068-2/SM9     | 1        | A/C     |                          |
| BLADE         | F8068-2         | PCP:BLADE UNIT, ALUM [1,1,5] | 3        | Prop    |                          |
| SPINNER       | D-5732-P        | SPINNER ASSEMBLY             | 1        | A/C     |                          |
| SPIN MTG KIT  | A-2476-9        | SPINNER - MTG KIT            | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2429-4        | STUD, MOUNTING, 1/2-20       | 6        | Prop    |                          |
| OVERHAUL KIT  | PHC-J3YF-1RF-OH | O/H KIT                      | 1        | Prop    | For aftermarket use only |

**IDS No.:** 2437      **Rev.:** 1      **IC**      **Date:** 07/16/2015

**Modifier:** TEXAS SKYWAYS  
**Engine Model:** IO-550-F  
**Power:** 300 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 31.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

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CESSNA

IDS No.: 3314 Rev.: 1 IC Date: 07/16/2015

**Model:** 210(F,G,H,J), T210(F,G,H,J,K,L)

**Trade Name:** CENTURION

**Aircraft T.C./STC:** STC-SA00773AT

**Propeller Model:** PHC-J3YF-1RF

**Propeller T.C.:** P36EA

**Blade Model(s):** F7691  
F7691\*1

**Prop Diameter:** 78.0" TO 77.0"

### Prop Setup:

**Ref. Radius:** 30

**Reverse Angle:** NA

**Low Pitch Angle:** 11.8 +-0.1

**Stud Protrusion** 1.450 +-0.030

**Modifier:** HARTZELL PROPELLER

**Engine Model:** IO-520-(A,J), TSIO-520-(C,H)

**Power:** 285 HP @ 2700 RPM

**Placard/Restr:**

**Notes:**

**Startlock Angle:** NA

**Feather/High Angle:** 32.0 +-1.0

**Cwt Angle:**

### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>           | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|------------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | J3F07701           | PHC-J3YF-1RF/F7691/SM9       | 1               | A/C            |                          |
| PROPELLER        | J3F07701KD         | PHC-J3YF-1RF/F7691/SM9       | 1               | A/C            |                          |
| BLADE            | F7691              | PCP:BLADE UNIT, ALUM [1,1,5] | 3               | Prop           |                          |
| BLADE            | F7691*1            | PCP:BLADE UNIT, ALUM [3,1,5] | 3               | Prop           |                          |
| SPINNER          | C-4582-P           | SPINNER ASSEMBLY             | 1               | Prop           |                          |
| SPIN MTG KIT     | A-2476-9           | SPINNER - MTG KIT            | 1               | Prop           |                          |
| MTG BOLT/STUD    | A-2429-4           | STUD, MOUNTING, 1/2-20       | 6               | Prop           |                          |
| OVERHAUL KIT     | PHC-J3YF-1RF-OH    | O/H KIT                      | 1               | Prop           | For aftermarket use only |

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CESSNA

IDS No.: 1174 Rev.: 5 IC Date: 07/16/2015

**Model:** 210(K,L,M,N)  
**Trade Name:** CENTURION  
**Aircraft T.C./STC:** STC-SA00773AT  
**Propeller Model:** PHC-J3YF-1RF  
**Propeller T.C.:** P36EA  
**Blade Model(s):** F7691  
 F7691\*1  
**Prop Diameter:** 78.0" TO 77.0"

**Modifier:** HARTZELL PROPELLER  
**Engine Model:** IO-520-L  
**Power:** 300 HP @ 2850 RPM  
**Placard/Restr:**  
**Notes:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 11.8+/-0.1  
**Stud Protrusion** 1.450 +/-0.030

**Startlock Angle:** NA  
**Feather/High Angle:** 31.0+/-1.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>           | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|------------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | J3F00020           | PHC-J3YF-1RF/F7691/SM9       | 1               | A/C            |                          |
| PROPELLER        | J3F00020KD         | PHC-J3YF-1RF/F7691/SM9       | 1               | A/C            |                          |
| PROPELLER        | J3F00020SKDTP      | J3F00020/SM9/C-4582-P        | 1               | A/C            |                          |
| PROPELLER        | J3F00020STP        | J3F00020/SM9/C-4582-P        | 1               | A/C            |                          |
| BLADE            | F7691              | PCP:BLADE UNIT, ALUM [1,1,5] | 3               | Prop           |                          |
| BLADE            | F7691*1            | PCP:BLADE UNIT, ALUM [3,1,5] | 3               | Prop           |                          |
| SPINNER          | C-4582-P           | SPINNER ASSEMBLY             | 1               | Prop           |                          |
| SPIN MTG KIT     | A-2476-9           | SPINNER - MTG KIT            | 1               | Prop           |                          |
| MTG BOLT/STUD    | A-2429-4           | STUD, MOUNTING, 1/2-20       | 6               | Prop           |                          |
| OVERHAUL KIT     | PHC-J3YF-1RF-OH    | O/H KIT                      | 1               | Prop           | For aftermarket use only |

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CESSNA

**Model:** 210(K-N)  
**Trade Name:** CENTURION  
**Aircraft T.C./STC:** STC-SA00553AT  
**Propeller Model:** PHC-J3YF-1RF  
**Propeller T.C.:** P36EA  
**Blade Model(s):** F8468A-6R  
**Prop Diameter:** 80.0" TO 77.0"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 10.4 +-0.2  
**Stud Protrusion** 1.450 +-0.030

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number     | Description                  | Quantity | Qty Per | Comments                 |
|---------------|-----------------|------------------------------|----------|---------|--------------------------|
| PROPELLER     | J3F00014        | PHC-J3YF-1RF/F8468A-6R/SM7   | 1        | A/C     |                          |
| PROPELLER     | J3F00014KD      | PHC-J3YF-1RF/F8468A-6R/SM7   | 1        | A/C     |                          |
| BLADE         | F8468A-6R       | PCP:BLADE UNIT, ALUM [1,1,1] | 3        | Prop    |                          |
| SPINNER       | C-4582          | SPINNER ASSEMBLY             | 1        | Prop    |                          |
| SPINNER       | C-4582-P        | SPINNER ASSEMBLY             | 1        | Prop    |                          |
| SPIN MTG KIT  | A-2476-7        | SPINNER - MTG KIT            | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2429-4        | STUD, MOUNTING, 1/2-20       | 6        | Prop    |                          |
| OVERHAUL KIT  | PHC-J3YF-1RF-OH | O/H KIT                      | 1        | Prop    | For aftermarket use only |

**IDS No.:** 1141      **Rev.:** 2      **IC Date:** 07/16/2015

**Modifier:** JOHN JEWELL AVIATION  
**Engine Model:** IO-520-L  
**Power:** 285 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 31.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

CESSNA

**Model:** 210(K-N)  
**Trade Name:** CENTURION  
**Aircraft T.C./STC:** STC-SA00553AT  
**Propeller Model:** PHC-J3YF-1RF  
**Propeller T.C.:** P36EA  
**Blade Model(s):** F7691  
**Prop Diameter:** 78.0" TO 77.0"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 11.8 +-0.1  
**Stud Protrusion** 1.450 +-0.030

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number | Description                  | Quantity | Qty Per | Comments |
|---------------|-------------|------------------------------|----------|---------|----------|
| BLADE         | F7691       | PCP:BLADE UNIT, ALUM [1,1,5] | 3        | Prop    |          |
| SPINNER       | C-4582-P    | SPINNER ASSEMBLY             | 1        | Prop    |          |
| SPIN MTG KIT  | A-2476-7    | SPINNER - MTG KIT            | 1        | Prop    |          |
| MTG BOLT/STUD | A-2429-4    | STUD, MOUNTING, 1/2-20       | 6        | Prop    |          |

**IDS No.:** 1117      **Rev.:** -      **DM Date:** 11/18/1997

**Modifier:** JOHN JEWELL AVIATION  
**Engine Model:** IO-520-L  
**Power:** 285 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 31.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

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CESSNA

**Model:** 210(K-N)  
**Trade Name:** CENTURION  
**Aircraft T.C./STC:** SA00274AT  
**Propeller Model:** PHC-J3YF-1RF  
**Propeller T.C.:** P36EA  
**Blade Model(s):** F7691  
**Prop Diameter:** 78.0" TO 77.0"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.4 +-0.1  
**Stud Protrusion** 1.450 +-0.030

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number     | Description                  | Quantity | Qty Per | Comments                 |
|---------------|-----------------|------------------------------|----------|---------|--------------------------|
| PROPELLER     | J3F00022        | PHC-J3YF-1RF/F7691/SM7       | 1        | A/C     |                          |
| BLADE         | F7691           | PCP:BLADE UNIT, ALUM [1,1,5] | 3        | Prop    |                          |
| SPINNER       | C-4582-P        | SPINNER ASSEMBLY             | 1        | Prop    |                          |
| SPIN MTG KIT  | A-2476-7        | SPINNER - MTG KIT            | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2429-4        | STUD, MOUNTING, 1/2-20       | 6        | Prop    |                          |
| OVERHAUL KIT  | PHC-J3YF-1RF-OH | O/H KIT                      | 1        | Prop    | For aftermarket use only |

**IDS No.:** 1123      **Rev.:** 4      **IC**      **Date:** 03/27/2018

**Modifier:** JOHN JEWELL AIRCRAFT, INC.

**Engine Model:** IO-550-L

**Power:** 300 HP @ 2700 RPM

**Placard/Restr:**

**Notes:**

**Startlock Angle:** NA

**Feather/High Angle:** 31.0 +-1.0

**Cwt Angle:**

**Non-HPI Governor:**

CESSNA

**Model:** 210(K-N)  
**Trade Name:** CENTURION  
**Aircraft T.C./STC:** SA00553AT  
**Propeller Model:** PHC-J3YF-1RF  
**Propeller T.C.:** P36EA  
**Blade Model(s):** F7691  
**Prop Diameter:** 78.0" TO 77.0"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 11.8 +-0.1  
**Stud Protrusion** 1.450 +-0.030

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number     | Description                  | Quantity | Qty Per | Comments                 |
|---------------|-----------------|------------------------------|----------|---------|--------------------------|
| PROPELLER     | J3F00032        | PHC-J3YF-1RF/F7691/SM7       | 1        | A/C     |                          |
| BLADE         | F7691           | PCP:BLADE UNIT, ALUM [1,1,5] | 3        | Prop    |                          |
| SPINNER       | C-4582-P        | SPINNER ASSEMBLY             | 1        | Prop    |                          |
| SPIN MTG KIT  | A-2476-7        | SPINNER - MTG KIT            | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2429-4        | STUD, MOUNTING, 1/2-20       | 6        | Prop    |                          |
| OVERHAUL KIT  | PHC-J3YF-1RF-OH | O/H KIT                      | 1        | Prop    | For aftermarket use only |

**IDS No.:** 1879      **Rev.:** 1      **IC**      **Date:** 07/16/2015

**Modifier:** JOHN JEWELL AIRCRAFT, INC.

**Engine Model:** IO-520-L

**Power:** 300 HP @ 2700 RPM

**Placard/Restr:**

**Notes:**

**Startlock Angle:** NA

**Feather/High Angle:** 31.0 +-1.0

**Cwt Angle:**

**Non-HPI Governor:**

# HARTZELL

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CESSNA

**Model:** P210N  
**Trade Name:** CENTURION  
**Aircraft T.C./STC:** STC-SA2568NM  
**Propeller Model:** HC-F4YR-1  
**Propeller T.C.:** P53GL  
  
**Blade Model(s):** F7663DB-6Q  
**Prop Diameter:** 73.75"

**IDS No.:** 404      **Rev.:** 1      **IC Date:** 07/15/2015

**Modifier:** JAVELIN CONVERSIONS  
**Engine Model:** TIO-540-V2AD  
**Power:** 350 HP @ 2600 RPM  
**Placard/Restr:** Continuous ground operation is prohibited between 2000 and 2400 RPM.  
  
**Notes:** STC specifies invalid prop model (HC-F4YR-1RF); Deice is "Boots Only". STC owner will not support needed kit updates.

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 14.2 +-0.1  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 34.0 +-1.0  
**Cwt Angle:**

### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>       | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|--------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | F4R00010           | HC-F4YR-1/F7663DB-6Q     | 1               | A/C            |                          |
| BLADE            | F7663DB-6Q         | PCP:BLADE UNIT, ALUMINUM | 4               | Prop           |                          |
| SPINNER          | D-4511-1P          | SPINNER ASSEMBLY         | 1               | Prop           |                          |
| SPIN MTG KIT     | A-2476-20          | SPINNER - MTG KIT        | 1               | Prop           | Non de-iced              |
| DE-ICER          | 4H1188-4           | DE-ICE BOOT              | 1               | Blade          | Supersedes 7931-4E1188-4 |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20   | 6               | Prop           |                          |
| OVERHAUL KIT     | HC-F4YR-1-OH       | O/H KIT                  | 1               | Prop           | For aftermarket use only |

# HARTZELL

## APPLICATION GUIDE

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CESSNA

IDS No.: 407 Rev.: 2 IC Date: 07/15/2015

**Model:** P210N  
**Trade Name:** PRESSURIZED CENTURION  
**Aircraft T.C./STC:** STC-SA1003NE  
**Propeller Model:** HC-B3TF-7A  
**Propeller T.C.:** P15EA  
**Blade Model(s):** T9212K-2\*1  
                           T9212N-2  
                           T9212NK-2\*1  
**Prop Diameter:** 90.0" TO 88.0"

**Modifier:** O&N AIRCRAFT MOD. INC.  
**Engine Model:** 250-B17F  
**Power:** 450 HP @ 2030 RPM  
**Placard/Restr:**  
**Notes:**

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** -10.0 +-0.5  
**Low Pitch Angle:** NA

**Startlock Angle:** NA  
**Feather/High Angle:** 86.2 +-0.5  
**Cwt Angle:** 1.5 +-1.0

**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| Item Type          | Item Number   | Description                    | Quantity | Qty Per | Comments                  |
|--------------------|---------------|--------------------------------|----------|---------|---------------------------|
| PROPELLER          | B3F10080S     | HC-B3TF-7A/T9212N-2/835-39EP   | 1        | A/C     |                           |
| PROPELLER          | B3F10090      | HC-B3TF-7A/T9212NK-2[*1]       | 1        | A/C     |                           |
| PROPELLER          | B3F10090S     | HC-B3TF-7A/T9212NK-2[*1]       | 1        | A/C     |                           |
| BLADE              | T9212K-2*1    | IDS*ITEM, BLADE,4E3048-10 BOOT | 3        | Prop    |                           |
| BLADE              | T9212N-2      | PCP:BLADE UNIT, ALUM [1,1,1]   | 3        | Prop    |                           |
| BLADE              | T9212NK-2*1   | T9212N-2 BLADE,4H3048-10 BOOT  | 3        | Prop    |                           |
| SPINNER            | 835-39EP      | SPINNER ASSEMBLY               | 1        | Prop    |                           |
| SPIN MTG KIT       | A-3491        | SPINNER - MTG KIT              | 1        | Prop    |                           |
| SP MT KIT DE-ICE   | B-3384-23     | BOLT, 1/4-28, HEX HEAD         | 6        | Prop    |                           |
| SP MT KIT DE-ICE   | B-3808-4      | NUT,HEX,SELF-LOCKING           | 6        | Prop    |                           |
| SP MT KIT DE-ICE   | B-3837-0432   | WASHER, CORROSION RESISTANT    | 18       | Prop    |                           |
| SP MT KIT DE-ICE   | B-3837-0463   | WASHER, CORROSION RESISTANT    | 12       | Prop    |                           |
| COUNTERWEIGHT SLUG | B-3386-14H    | BOLT,3/8-24,HEX HEAD           | 2        | Blade   |                           |
| COUNTERWEIGHT SLUG | B-3834-0632   | WASHER                         | 2        | Blade   |                           |
| DE-ICER            | 4H3048-10     | DE-ICE BOOT                    | 1        | Blade   | Supersedes 7931-4E3048-10 |
| DE-ICE KIT PR      | 7931-67-830-1 | DE-ICE KIT (ONE PROP)          | 1        | Prop    |                           |
| DE-ICE KIT A/F     | 7931-67-830-2 | AIRFRAME DE-ICE KIT            | 1        | A/C     |                           |
| MTG BOLT/STUD      | A-1328-1      | BOLT,MOUNTING,1/2-20,12 POINT  | 6        | Prop    |                           |
| MISC ACCES         | C-3630-2      | PCP:BETA VALVE - ASSEMBLY      | 1        | Prop    |                           |
| OVERHAUL KIT       | HC-B3TF-7A-OH | O/H KIT                        | 1        | Prop    | For aftermarket use only  |



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CESSNA

**Model:** T210F-L  
**Trade Name:** TURBO CENTURION  
**Aircraft T.C./STC:** SA02319CH-D  
**Propeller Model:** HC-J3YF-1RF  
**Propeller T.C.:** P36EA  
**Blade Model(s):** F7691+2  
**Prop Diameter:** 80-78"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 15.3 +-0.2  
**Stud Protrusion** 1.450 +-0.030

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 2552      **Rev.:** -      **DM Date:** 08/31/2007

**Modifier:** HARTZELL PROPELLER  
**Engine Model:** TSIO-520-C, -H  
**Power:** 285 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 32.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>           | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|------------------------------|-----------------|----------------|-----------------|
| PROPELLER        | J3F00200           | HC-J3YF-1RF/F7691+2/SM44     | 1               | A/C            |                 |
| PROPELLER        | J3F00200KD         | HC-J3YF-1RF/F7691+2/SM44     | 1               | A/C            |                 |
| PROPELLER        | J3F00200SKDTP      | J3F00200/SM44/C-4582-P       | 1               | A/C            |                 |
| PROPELLER        | J3F00200STP        | J3F00200/SM44/C-4582-P       | 1               | A/C            |                 |
| BLADE            | F7691+2            | PCP:BLADE UNIT, ALUM [6,1,5] | 3               | Prop           |                 |
| SPINNER          | C-4582             | SPINNER ASSEMBLY             | 1               | A/C            |                 |
| SPINNER          | C-4582-P           | SPINNER ASSEMBLY             | 1               | A/C            |                 |
| SPIN MTG KIT     | A-2476-44          | SPINNER - MTG KIT            | 1               | Prop           |                 |
| MTG BOLT/STUD    | A-2429-4           | STUD, MOUNTING, 1/2-20       | 6               | Prop           |                 |

CESSNA

**Model:** T210  
**Trade Name:** TURBO CENTURION  
**Aircraft T.C./STC:** STC-SA2689SW  
**Propeller Model:** PHC-J3YF-1RF  
**Propeller T.C.:** P36EA  
**Blade Model(s):** F7663-2Q  
**Prop Diameter:** 76" NO CUT OFF

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 15.2 +-0.1  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 405      **Rev.:** -      **DM Date:** 10/01/1992

**Modifier:** RAM AIRCRAFT CORP.  
**Engine Model:** TSIO-520-R,-C,-H,-M,-P (2600/285)  
**Power:** 310 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 36.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:** WOODWARD

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>       | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|--------------------------|-----------------|----------------|-----------------|
| BLADE            | F7663-2Q           | PCP:BLADE UNIT, ALUMINUM | 3               | Prop           |                 |
| SPINNER          | C-4582             | SPINNER ASSEMBLY         | 1               | Prop           |                 |

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IDS No.: 2553 Rev.: 1 IC Date: 07/16/2015

**Model:** TU206(A-F), TP206(A-E), T210(F-K)  
**Trade Name:** SUPER SKYWAGON, TURBO CENTURION  
**Aircraft T.C./STC:** SA10615SC  
**Propeller Model:** PHC-J3YF-1RF  
**Propeller T.C.:** P36EA  
**Blade Model(s):** F7693F+2  
 F7693FB+2  
**Prop Diameter:** 80-78

**Modifier:** RAM AIRCRAFT CORP.  
**Engine Model:** TSIO-520-R

**Power:** 310 HP @ 2700 RPM

**Placard/Restr:**

**Notes:** -3 de-ice kit is same as -1 with boots added for field installation. De-ice installation is for 14V aircraft with airframe de-ice components approved in Cessna parts catalog for eligible model model numbers only.

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** 14.0 +-0.2  
**Stud Protrusion** 1.450 +-0.030

**Startlock Angle:**

**Feather/High Angle:** 31.0 +-1.0

**Cwt Angle:**

### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| Item Type     | Item Number     | Description                    | Quantity | Qty Per | Comments                 |
|---------------|-----------------|--------------------------------|----------|---------|--------------------------|
| PROPELLER     | J3F09050        | PHC-J3YF-1RF/F7693F+2/SM9      | 1        | A/C     |                          |
| PROPELLER     | J3F09050KD      | PHC-J3YF-1RF/F7693F+2/SM9      | 1        | A/C     |                          |
| PROPELLER     | J3F09060        | PHC-J3YF-1RF/F7693FB+2/SM9     | 1        | A/C     |                          |
| PROPELLER     | J3F09060S       | PHC-J3YF-1RF/F7693FB+2/4582-1P | 1        | A/C     |                          |
| BLADE         | F7693F+2        | PCP:BLADE UNIT, ALUM [6,15,11] | 3        | Prop    |                          |
| BLADE         | F7693FB+2       | PCP:BLADE UNIT, ALUM 101773-1  | 3        | Prop    |                          |
| SPINNER       | C-4582-1        | SPINNER ASSEMBLY               | 1        | A/C     |                          |
| SPINNER       | C-4582-1P       | SPINNER ASSEMBLY               | 1        | A/C     |                          |
| SPIN MTG KIT  | A-2476-9        | SPINNER - MTG KIT              | 1        | Prop    |                          |
| DE-ICER       | 101773-1        | DE-ICE BOOT                    | 1        | Blade   |                          |
| DE-ICE KIT PR | 101820-1        | DE-ICE KIT (ONE PROP)          | 1        | Prop    |                          |
| DE-ICE KIT PR | 101820-3        | DE-ICE KIT,ONE PROP,W/ DE-ICER | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2429-4        | STUD, MOUNTING, 1/2-20         | 6        | Prop    |                          |
| OVERHAUL KIT  | PHC-J3YF-1RF-OH | O/H KIT                        | 1        | Prop    | For aftermarket use only |

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IDS No.: 1760 Rev.: 2 IC Date: 07/16/2015

**Model:** 210(K,L,M,N); T210(K,L,M,N)  
**Trade Name:** CENTURION  
**Aircraft T.C./STC:** STC-SA02029AT-D  
**Propeller Model:** PHC-J3YF-1RF  
**Propeller T.C.:** P36EA  
**Blade Model(s):** F7691  
**Prop Diameter:** 78" TO 77"

**Modifier:** ATLANTIC AERO  
**Engine Model:** IO-550-P  
**Power:** 310 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 14.0 +-0.1  
**Stud Protrusion** 1.450 +-0.030

**Startlock Angle:** NA  
**Feather/High Angle:** 31.0 +-1.0  
**Cwt Angle:**

### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>           | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>                |
|------------------|--------------------|------------------------------|-----------------|----------------|--------------------------------|
| PROPELLER        | J3F00023           | PHC-J3YF-1RF/F7691/SM36      | 1               | A/C            |                                |
| PROPELLER        | J3F00023KD         | PHC-J3YF-1RF/F7691/SM36      | 1               | A/C            |                                |
| PROPELLER        | J3F07700           | PHC-J3YF-1RF/F7691/SM44      | 1               | A/C            |                                |
| PROPELLER        | J3F07700KD         | PHC-J3YF-1RF/F7691/SM44      | 1               | A/C            |                                |
| BLADE            | F7691              | PCP:BLADE UNIT, ALUM [1,1,5] | 3               | Prop           |                                |
| SPINNER          | A-2295-1           | SPINNER ASSEMBLY             | 1               | Prop           | Optional Spinner               |
| SPINNER          | A-2295-1P          | SPINNER ASSEMBLY             | 1               | Prop           | Optional Spinner               |
| SPINNER          | C-4582             | SPINNER ASSEMBLY             | 1               | Prop           |                                |
| SPINNER          | C-4582-P           | SPINNER ASSEMBLY             | 1               | Prop           |                                |
| SPIN MTG KIT     | A-2476-30          | SPINNER - MTG KIT            | 1               | Prop           | Use w/A-2295-1(P) only         |
| SPIN MTG KIT     | A-2476-36          | SPINNER - MTG KIT            | 1               | Prop           |                                |
| SPIN MTG KIT     | A-2476-44          | SPINNER - MTG KIT            | 1               | Prop           | Opt w/C-4582(P) only: for adj. |
| MTG BOLT/STUD    | A-2429-4           | STUD, MOUNTING, 1/2-20       | 6               | Prop           |                                |
| OVERHAUL KIT     | PHC-J3YF-1RF-OH    | O/H KIT                      | 1               | Prop           | For aftermarket use only       |

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**CESSNA**

**Model:** 210(K,L,M,N); T210(K,L,M,N)  
**Trade Name:** CENTURION

**Aircraft T.C./STC:** STC-SA3104SO  
**Propeller Model:** PHC-J3YF-1RF  
**Propeller T.C.:** P36EA  
**Blade Model(s):** F7691  
**Prop Diameter:** 78"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 11.4 +-0.2  
**Stud Protrusion** 1.450 +-0.030

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number     | Description                  | Quantity | Qty Per | Comments                 |
|---------------|-----------------|------------------------------|----------|---------|--------------------------|
| PROPELLER     | J3F00021        | PHC-J3YF-1RF/F7691/SM36      | 1        | A/C     |                          |
| BLADE         | F7691           | PCP:BLADE UNIT, ALUM [1,1,5] | 3        | Prop    |                          |
| SPINNER       | C-4582-P        | SPINNER ASSEMBLY             | 1        | Prop    |                          |
| SPIN MTG KIT  | A-2476-36       | SPINNER - MTG KIT            | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2429-4        | STUD, MOUNTING, 1/2-20       | 6        | Prop    |                          |
| OVERHAUL KIT  | PHC-J3YF-1RF-OH | O/H KIT                      | 1        | Prop    | For aftermarket use only |

**IDS No.:** 1264      **Rev.:** 1      **IC Date:** 07/16/2015

**Modifier:** AERO MOD.& CONS.,LLC(ATLANTIC AERO)

**Engine Model:** IO-550L

**Power:** 300 HP @ 2700 RPM

**Placard/Restr:**

**Notes:**

**Startlock Angle:** NA

**Feather/High Angle:** 30.5 +-1.0

**Cwt Angle:**

**Non-HPI Governor:**

**CESSNA**

**Model:** T210(M,N)  
**Trade Name:** TURBO CENTURION

**Aircraft T.C./STC:** STC-SA4111SW  
**Propeller Model:** PHC-J3YF-1RF  
**Propeller T.C.:** P36EA  
**Blade Model(s):** F7663-2Q  
 F7663D-2Q  
**Prop Diameter:** 76"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 15.2 +-0.1  
**Stud Protrusion** 1.450 +-0.030

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number     | Description                 | Quantity | Qty Per | Comments                 |
|---------------|-----------------|-----------------------------|----------|---------|--------------------------|
| PROPELLER     | J3F00004        | PHC-J3YF-1RF/F7663D-2Q/SM25 | 1        | A/C     |                          |
| PROPELLER     | J3F00004KD      | PHC-J3YF-1RF/F7663D-2Q/SM25 | 1        | A/C     |                          |
| BLADE         | F7663-2Q        | PCP:BLADE UNIT, ALUMINUM    | 3        | Prop    |                          |
| BLADE         | F7663D-2Q       | PCP:BLADE UNIT, ALUMINUM    | 3        | Prop    |                          |
| SPINNER       | C-4582          | SPINNER ASSEMBLY            | 1        | Prop    |                          |
| SPIN MTG KIT  | A-2476-25       | SPINNER - MTG KIT           | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2429-4        | STUD, MOUNTING, 1/2-20      | 6        | Prop    |                          |
| OVERHAUL KIT  | PHC-J3YF-1RF-OH | O/H KIT                     | 1        | Prop    | For aftermarket use only |

**IDS No.:** 406      **Rev.:** 1      **IC Date:** 07/16/2015

**Modifier:** RAM AIRCRAFT CORP.

**Engine Model:** TSIO-520-M, -R

**Power:** 310 HP @ 2700 RPM

**Placard/Restr:**

**Notes:** TSIO-520-M engine can apply to T210G, H, or J aircraft models per STC SA2689SW.

**Startlock Angle:** NA

**Feather/High Angle:** 36.0 +-1.0

**Cwt Angle:**

**Non-HPI Governor:** WOODWARD G210452

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IDS No.: 2768 Rev.: 1 IC Date: 07/16/2015

**Model:** 305A  
**Trade Name:** O-1A Bird Dog  
**Aircraft T.C./STC:** SA1201SW  
**Propeller Model:** HC-C3YR-1RF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** F8468A-6R  
 F8468A-6R\*2  
**Prop Diameter:** 80" to 76"

**Modifier:** Stephen Noyes  
**Engine Model:** O-540-A4B5  
**Power:** 250 HP @ 2575 RPM  
**Placard/Restr:** None  
**Notes:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** 12.7 +-0.2  
**Stud Protrusion**

**Startlock Angle:**  
**Feather/High Angle:** 33.0 +-1.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>           | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|------------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | C3R00075           | HC-C3YR-1RF/F8468A-6R        | 1               | A/C            |                          |
| PROPELLER        | C3R00076           | HC-C3YR-1RF/F8468A-6R[*2]    | 1               | A/C            |                          |
| BLADE            | F8468A-6R          | PCP:BLADE UNIT, ALUM [1,1,1] | 3               | Prop           |                          |
| BLADE            | F8468A-6R*2        | PCP:BLADE UNIT, ALUM [3,5,1] | 3               | Prop           |                          |
| SPINNER          | 835-52             | IDS Item                     | 1               | Prop           |                          |
| SPINNER          | 835-52P            | SPINNER ASSEMBLY             | 1               | Prop           |                          |
| GOVERNOR         | S-1-36             | GOVERNOR ASSEMBLY, S-1-36    | 1               | A/C            |                          |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20       | 6               | Prop           |                          |
| OVERHAUL KIT     | HC-C3YR-1RF-OH     | O/H KIT                      | 1               | Prop           | For aftermarket use only |

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CESSNA

IDS No.: 2163 Rev.: 1 D Date: 01/07/2011

Model: 310  
 Trade Name:  
 Aircraft T.C./STC: Experimental  
 Propeller Model: HC-83VK-2B, HC-A3VK-2B  
 Propeller T.C.: P6EA  
 Blade Model(s): V7636DB  
 V7636NB  
 Prop Diameter: 76" MIN.

Modifier: RILEY AIRCRAFT  
 Engine Model: IO-540-A1B5, -B1A5, -B1B5  
 Power: 260 HP @ 2575 RPM  
 Placard/Restr:  
 Notes:

### Prop Setup:

Ref. Radius: 30  
 Reverse Angle: NA  
 Low Pitch Angle: 13.75 +-0.25  
 Stud Protrusion

Startlock Angle: NA  
 Feather/High Angle: 85.0 +-1.0  
 Cwt Angle: Positive

### Non-HPI Items:

Non-HPI Spinner:

Non-HPI Governor:

### Hartzell Approved Items:

| Item Type                   | Item Number | Description                    | Quantity | Qty Per | Comments                 |
|-----------------------------|-------------|--------------------------------|----------|---------|--------------------------|
| BLADE                       | V7636DB     | BLADE                          | 3        | Prop    |                          |
| BLADE                       | V7636NB     | BLADE UNIT, ALUMINUM, 4E1188-3 | 3        | Prop    |                          |
| SPINNER                     | C-2513-2P   | SPINNER ASSEMBLY               | 1        | Prop    |                          |
| GOVERNOR                    | F6-5A       | GOVERNOR ASSEMBLY, F-6-()      | 1        | Prop    |                          |
| COUNTERWEIGHT SLUG A-29     |             | SLUG, COUNTERWEIGHT            | 3        | Blade   |                          |
| COUNTERWEIGHT SLUG B-3840-8 |             | SCREW, 10-32, FILLISTER HEAD   | 2        | Blade   |                          |
| DE-ICER                     | 4H1188-3    | DE-ICE BOOT                    | 1        | Blade   | Supersedes 7931-4E1188-3 |
| MTG BOLT/STUD               | A-1328      | BOLT,MOUNTING,1/2-20,12 POINT  | 3        | Prop    |                          |
| MTG BOLT/STUD               | A-1333-3    | BOLT,MOUNTING,1/2-20,HEX HEAD  | 3        | Prop    |                          |

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CESSNA

IDS No.: 1144 Rev.: 5 IC Date: 07/15/2015

Model: 310()  
 Trade Name:  
 Aircraft T.C./STC: STC-SA234CH  
 Propeller Model: PHC-J3YF-2UF  
 Propeller T.C.: P36EA  
 Blade Model(s): FC7663D-2R  
 FC7663D-2R\*1  
 FC7663DB-2R  
 FC7663DB-2R\*1  
 Prop Diameter: 76.0" TO 75.0"

Modifier: HARTZELL PROPELLER  
 Engine Model: IO-470-U, -V, -VO  
 Power: 260 HP @ 2625 RPM  
 Placard/Restr:  
 Notes:

**Prop Setup:**

Ref. Radius: 30  
 Reverse Angle: NA  
 Low Pitch Angle: 12.0 +-0.2  
 Stud Protrusion 1.450 +-0.030

Startlock Angle: 17.5 +-1.5  
 Feather/High Angle: 80.1 +-0.5  
 Cwt Angle:

**Non-HPI Items:**

Non-HPI Spinner:

Non-HPI Governor:

**Hartzell Approved Items:**

| Item Type      | Item Number     | Description                  | Quantity | Qty Per | Comments                               |
|----------------|-----------------|------------------------------|----------|---------|--|
| PROPELLER      | J3F00072        | PHC-J3YF-2UF/FC7663D-2R/SM9  | 2        | A/C     |  |
| PROPELLER      | J3F00072KD      | PHC-J3YF-2UF/FC7663D-2R/SM9  | 2        | A/C     |  |
| PROPELLER      | J3F00072SKDTP   | J3F00072/SM9/C-4558-2P/TWIN  | 1        | A/C     |  |
| PROPELLER      | J3F00072STP     | J3F00072/SM9/C-4558-2P/TWIN  | 1        | A/C     |  |
| PROPELLER      | J3F00075        | PHC-J3YF-2UF/FC7663DB-2R/SM9 | 2        | A/C     |  |
| PROPELLER      | J3F00075KD      | PHC-J3YF-2UF/FC7663DB-2R/SM9 | 2        | A/C     |  |
| PROPELLER      | J3F00075SKDTP   | J3F00075/SM9/C-4558-2P/TWIN  | 1        | A/C     |  |
| PROPELLER      | J3F00075STP     | J3F00075/SM9/C-4558-2P/TWIN  | 1        | A/C     |  |
| BLADE          | FC7663D-2R      | PCP:BLADE UNIT, ALUMINUM     | 3        | Prop    |  |
| BLADE          | FC7663D-2R*1    | IDS ITEM, BLADE, [3,1,1]     | 3        | Prop    |  |
| BLADE          | FC7663DB-2R     | PCP:BLADE UNIT, ALUMINUM     | 3        | Prop    |  |
| BLADE          | FC7663DB-2R*1   | IDS ITEM, BLADE, [3,1,1]     | 3        | Prop    |  |
| SPINNER        | C-4558-2P       | SPINNER ASSEMBLY             | 1        | Prop    |  |
| SPINNER        | C-4558-3P       | SPINNER ASSEMBLY             | 1        | Prop    |  |
| SPIN MTG KIT   | A-2476-9        | SPINNER - MTG KIT            | 1        | Prop    |  |
| COUNTERWEIGHT  | B-3202H-5       | PCP:COUNTERWEIGHT            | 1        | Blade   | Blade Component                        |
| DE-ICER        | 4H1601-14       | DE-ICE BOOT                  | 1        | Blade   | Supersedes 4H1601-10 & 7931-4E1601-10. |
| DE-ICE KIT PR  | 7931-65-600-4   | DE-ICE KIT (ONE PROP)        | 1        | Prop    |  |
| DE-ICE KIT A/F | 7931-65-600-5   | AIRFRAME DE-ICE KIT          | 1        | A/C     |  |
| MTG BOLT/STUD  | A-2429-4        | STUD, MOUNTING, 1/2-20       | 6        | Prop    |  |
| OVERHAUL KIT   | PHC-J3YF-2UF-OH | O/H KIT                      | 1        | Prop    | For aftermarket use only               |

# HARTZELL

## APPLICATION GUIDE

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CESSNA

**Model:** 310(I,P,Q,R); T310(P,Q,R)

**Trade Name:**

**Aircraft T.C./STC:** STC-SA234CH

**Propeller Model:** PHC-C3YF-2UF

**Propeller T.C.:** P25EA

**Blade Model(s):** FC7663D-2R  
FC7663DB-2R

**Prop Diameter:** 76.0" TO 75.0"

### Prop Setup:

**Ref. Radius:** 30

**Reverse Angle:** NA

**Low Pitch Angle:** 12.0 +-0.2

**Stud Protrusion** 1.450 +-0.030

**IDS No.:** 1143

**Rev.:** 5

**IC Date:** 07/15/2015

**Modifier:** HARTZELL PROPELLER

**Engine Model:** IO-470-U, -VO; IO-520-M(B) [TSIO-520-B(B), T310(P-R)]

**Power:** 260 HP @ 2625 RPM

**Placard/Restr:**

**Notes:**

**Startlock Angle:** 17.5 +-1.5

**Feather/High Angle:** 80.1 +-0.5

**Cwt Angle:**

### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| Item Type      | Item Number     | Description                  | Quantity | Qty Per | Comments                               |
|----------------|-----------------|------------------------------|----------|---------|--|
| PROPELLER      | C3F00195        | PHC-C3YF-2UF/FC7663D-2R/SM9  | 2        | A/C     |  |
| PROPELLER      | C3F00195KD      | PHC-C3YF-2UF/FC7663D-2R/SM9  | 2        | A/C     |  |
| PROPELLER      | C3F00195SKDTP   | C3F00195/SM9/C-4558-2P/TWIN  | 1        | A/C     |  |
| PROPELLER      | C3F00195STP     | C3F00195/SM9/C-4558-2P/TWIN  | 1        | A/C     |  |
| PROPELLER      | C3F00198        | PHC-C3YF-2UF/FC7663DB-2R/SM9 | 2        | A/C     |  |
| PROPELLER      | C3F00198KD      | PHC-C3YF-2UF/FC7663DB-2R/SM9 | 2        | A/C     |  |
| PROPELLER      | C3F00198SKDTP   | C3F00198/SM9/C-4558-2P/TWIN  | 1        | A/C     |  |
| PROPELLER      | C3F00198SKDTP*1 | C3F00198/SM9/C-4558-2P/TWIN  | 1        | A/C     |  |
| PROPELLER      | C3F00198STP     | C3F00198/SM9/C-4558-2P/TWIN  | 1        | A/C     |  |
| PROPELLER      | C3F00198STP*1   | C3F00198/SM9/C-4558-2P/TWIN  | 1        | A/C     |  |
| BLADE          | FC7663D-2R      | PCP:BLADE UNIT, ALUMINUM     | 3        | Prop    |  |
| BLADE          | FC7663DB-2R     | PCP:BLADE UNIT, ALUMINUM     | 3        | Prop    |  |
| SPINNER        | C-4558-2        | SPINNER ASSEMBLY             | 2        | A/C     |  |
| SPINNER        | C-4558-2P       | SPINNER ASSEMBLY             | 1        | Prop    |  |
| SPINNER        | C-4558-3        | SPINNER ASSEMBLY             | 2        | A/C     |  |
| SPINNER        | C-4558-3P       | SPINNER ASSEMBLY             | 1        | Prop    |  |
| SPIN MTG KIT   | A-2476-9        | SPINNER - MTG KIT            | 1        | Prop    |  |
| COUNTERWEIGHT  | B-3202H-5       | PCP:COUNTERWEIGHT            | 1        | Blade   | Blade Component                        |
| DE-ICER        | 4H1601-14       | DE-ICE BOOT                  | 1        | Blade   | Supersedes 4H1601-10 & 7931-4E1601-10. |
| DE-ICE KIT PR  | 7931-65-600-1   | DE-ICE KIT (ONE PROP)        | 1        | Prop    |  |
| DE-ICE KIT A/F | 7931-65-600-2   | AIRFRAME DE-ICE KIT          | 1        | A/C     | For use with (TS)IO-520 Engines        |
| DE-ICE KIT A/F | 7931-65-600-5   | AIRFRAME DE-ICE KIT          | 1        | A/C     | For use with IO-470 Engines            |
| MTG BOLT/STUD  | A-2429-4        | STUD, MOUNTING, 1/2-20       | 6        | Prop    | Use w/E-7167-2 Hub Only                |
| MTG BOLT/STUD  | A-2429-7        | STUD, MOUNTING, 1/2-20       | 6        | Prop    | Use w/E-7167-12 Hub Only               |
| OVERHAUL KIT   | PHC-C3YF-2UF*1  | O/H KIT W/O SLIMSERTS        | 1        | Prop    | For aftermarket use only               |
| OVERHAUL KIT   | PHC-C3YF-2UF-OH | O/H KIT                      | 1        | Prop    | For aftermarket use only               |



# HARTZELL

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CESSNA

**Model:** 310, 310A, 310B  
**Trade Name:**  
**Aircraft T.C./STC:** 3A10  
**Propeller Model:** HC-82XF-2, HC-A2XF-2  
**Propeller T.C.:** P24EA  
**Blade Model(s):** 8433  
8433-2  
8433-4  
**Prop Diameter:** 84.2" TO 78"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.5 +-0.5

**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 2155      **Rev.:** -      **DM Date:** 11/20/2003

**Modifier:**

**Engine Model:** O-470-B, -M

**Power:** 240 HP @ 2600 RPM

**Placard/Restr:**

**Notes:**

**Startlock Angle:** 22.0 +-0.5

**Feather/High Angle:** 82.0 +-0.5

**Cwt Angle:** Positive

**Non-HPI Governor:** WOODWARD, MCCAULEY

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>            | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|-------------------------------|-----------------|----------------|-----------------|
| BLADE            | 8433               | BLADE                         | 2               | Prop           |                 |
| BLADE            | 8433-2             | BLADE                         | 2               | Prop           |                 |
| BLADE            | 8433-4             | BLADE                         | 2               | Prop           |                 |
| SPINNER          | 835-13             | SPINNER ASSEMBLY              | 1               | Prop           |                 |
| MTG BOLT/STUD    | A-1328-1           | BOLT,MOUNTING,1/2-20,12 POINT | 6               | Prop           |                 |

# HARTZELL

## APPLICATION GUIDE

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CESSNA

IDS No.: 2157      Rev.: -      DM Date: 11/20/2003

**Model:** 310, 310A, 310B  
**Trade Name:**  
**Aircraft T.C./STC:** 3A10  
**Propeller Model:** HC-82VF-2, HC-A2VF-2  
**Propeller T.C.:** P24EA  
**Blade Model(s):** V8433  
                           V8433-2  
                           V8433-2R  
                           V8433-4  
                           V8433-4R  
                           V8433N  
                           V8433N-2  
                           V8433N-2R  
                           V8433N-4  
                           V8433N-4R

**Modifier:**  
**Engine Model:** O-470-B, -M  
**Power:** 240 HP @ 2600 RPM  
**Placard/Restr:**  
**Notes:**

**Prop Diameter:** 84.2" TO 78"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.5 +/-0.5

**Startlock Angle:** 22.0 +/-0.5  
**Feather/High Angle:** 82.0 +/-0.5  
**Cwt Angle:** Positive

**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:** WOODWARD, MCCAULEY

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>            | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|-------------------------------|-----------------|----------------|-----------------|
| BLADE            | V8433              | BLADE                         | 2               | Prop           |                 |
| BLADE            | V8433-2            | BLADE                         | 2               | Prop           |                 |
| BLADE            | V8433-2R           | BLADE                         | 2               | Prop           |                 |
| BLADE            | V8433-4            | BLADE                         | 2               | Prop           |                 |
| BLADE            | V8433-4R           | BLADE                         | 2               | Prop           |                 |
| BLADE            | V8433N             | BLADE                         | 2               | Prop           |                 |
| BLADE            | V8433N-2           | BLADE                         | 2               | Prop           |                 |
| BLADE            | V8433N-2R          | BLADE                         | 2               | Prop           |                 |
| BLADE            | V8433N-4           | BLADE                         | 2               | Prop           |                 |
| BLADE            | V8433N-4R          | BLADE                         | 2               | Prop           |                 |
| SPINNER          | 835-13             | SPINNER ASSEMBLY              | 1               | Prop           |                 |
| MTG BOLT/STUD    | A-1328-1           | BOLT,MOUNTING,1/2-20,12 POINT | 6               | Prop           |                 |

# HARTZELL

## APPLICATION GUIDE

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CESSNA

IDS No.: 411      Rev.: 2      IC      Date: 07/06/2015

**Model:** 310, 310A, 310B

**Trade Name:**

**Aircraft T.C./STC:** 3A10

**Propeller Model:** HC-A2MVF-2

**Propeller T.C.:** P24EA

**Blade Model(s):** MV8433N  
MV8433N-2  
MV8433N-2R  
MV8433N-4  
MV8433N-4R

**Prop Diameter:** 84.2" TO 78"

**Prop Setup:**

**Ref. Radius:** 30

**Reverse Angle:** NA

**Low Pitch Angle:** 12.5 +-0.5

**Stud Protrusion**

**Modifier:**

**Engine Model:** O-470-B, -M

**Power:** 240 HP @ 2600 RPM

**Placard/Restr:**

**Notes:**

**Startlock Angle:** 22.0 +-0.5

**Feather/High Angle:** 82.0 +-0.5

**Cwt Angle:** Positive

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:** WOODWARD, MCCAULEY

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>               | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|----------------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | A2F10160           | HC-A2MVF-2/MV8433N-4             | 2               | A/C            |                          |
| BLADE            | MV8433N            | PCP:BLADE UNIT, ALUM [1,1,1]     | 2               | Prop           |                          |
| BLADE            | MV8433N-2          | PCP:BLADE UNIT, ALUMINUM         | 2               | Prop           |                          |
| BLADE            | MV8433N-2R         | PCP:BLADE UNIT, ALUMINUM         | 2               | Prop           |                          |
| BLADE            | MV8433N-4          | PCP:BLADE UNIT, ALUMINUM         | 2               | Prop           |                          |
| BLADE            | MV8433N-4R         | PCP:BLADE UNIT, ALUMINUM         | 2               | Prop           |                          |
| SPINNER          | 835-13             | SPINNER ASSEMBLY                 | 1               | Prop           |                          |
| MTG BOLT/STUD    | A-1328-1           | BOLT, MOUNTING, 1/2-20, 12 POINT | 6               | Prop           |                          |
| OVERHAUL KIT     | HC-A2MVF-2-OH      | O/H KIT                          | 1               | Prop           | For aftermarket use only |

# HARTZELL

## APPLICATION GUIDE

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CESSNA

IDS No.: 1389 Rev.: 2 IC Date: 07/07/2015

Model: 310, 310A, 310B

Trade Name:

Aircraft T.C./STC: STC-SA00799CH

Propeller Model: HC-C2YF-2CUF

Propeller T.C.: P-920

Blade Model(s): FC8468-3  
FC8468-3\*1  
FC8468B-3  
FC8468B-3\*1

Prop Diameter: 81.0" TO 80.0"

### Prop Setup:

Ref. Radius: 30

Reverse Angle: NA

Low Pitch Angle: 12.5 +/-0.2

Stud Protrusion 1.450 +/-0.030

Modifier: HARTZELL PROPELLER

Engine Model: O-470-M

Power: 240 HP @ 2600 RPM

Placard/Restr:

Notes: Check for balance weight/travel tube interference during assembly on props with alcohol de-ice.

Startlock Angle: 19.5+/-3.0

Feather/High Angle: 82.0 +/-0.5

Cwt Angle:

### Non-HPI Items:

Non-HPI Spinner:

Non-HPI Governor: WOODWARD, MCCAULEY

### Hartzell Approved Items:

| Item Type     | Item Number     | Description                    | Quantity | Qty Per | Comments                 |
|---------------|-----------------|--------------------------------|----------|---------|--------------------------|
| PROPELLER     | C2F00416        | HC-C2YF-2CUF/FC8468-3/SM8      | 2        | A/C     |                          |
| PROPELLER     | C2F00416STP     | C2F00416/SM8/C-2285-4P/TWIN    | 2        | A/C     |                          |
| PROPELLER     | C2F00417        | HC-C2YF-2CUF/FC8468B-3/SM8     | 2        | A/C     |                          |
| PROPELLER     | C2F00417STP     | C2F00417/SM8/C-2285-4P/TWIN    | 2        | A/C     |                          |
| BLADE         | FC8468-3        | PCP:BLADE UNIT, B-3202H-5 CWT  | 2        | Prop    |                          |
| BLADE         | FC8468-3*1      | IDS ITEM [3,1,1] B-3202H-5 CWT | 2        | Prop    |                          |
| BLADE         | FC8468B-3       | PCP:BLADE UNIT, ALUMINUM       | 2        | Prop    |                          |
| BLADE         | FC8468B-3*1     | IDS ITEM, C-2131-6, B-3202H-5  | 2        | Prop    |                          |
| SPINNER       | C-2285-4        | SPINNER ASSEMBLY               | 1        | Prop    |                          |
| SPINNER       | C-2285-4P       | SPINNER ASSEMBLY               | 1        | Prop    |                          |
| SPIN MTG KIT  | A-2476-8        | SPINNER - MTG KIT              | 1        | Prop    |                          |
| COUNTERWEIGHT | B-3202H-5       | PCP:COUNTERWEIGHT              | 1        | Blade   | Blade Component          |
| DE-ICER       | C-2131-6        | BOOT, ANTI-ICING               | 1        | Blade   | Blade Component          |
| DE-ICE KIT PR | A-2374-1        | ANTI-ICING - KIT               | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2429-4        | STUD, MOUNTING, 1/2-20         | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-C2YF-2CUF-OH | O/H KIT                        | 1        | Prop    | For aftermarket use only |

# HARTZELL

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CESSNA

**Model:** 310, 310(B,C,D,E,F)  
**Trade Name:**  
**Aircraft T.C./STC:** STC-SA212SO  
**Propeller Model:** HC-A3XK-2B  
**Propeller T.C.:** P913  
**Blade Model(s):** 7636D  
**Prop Diameter:** 76"

### Prop Setup:

**Ref. Radius:**  
**Reverse Angle:**  
**Low Pitch Angle:**  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u> | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|--------------------|-----------------|----------------|-----------------|
| BLADE            | 7636D              | BLADE              | 3               | Prop           |                 |
| SPINNER          | C-2513-2P          | SPINNER ASSEMBLY   | 1               | Prop           |                 |
| GOVERNOR         | F6-4               | IDS Item           | 1               | Prop           |                 |

**IDS No.:** 2372      **Rev.:** -      **DM Date:** 12/18/2003

**Modifier:** RILEY AIRCRAFT  
**Engine Model:** IO-540-A1A5  
**Power:** 290 HP @ 2575 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:**  
**Feather/High Angle:**  
**Cwt Angle:**

**Non-HPI Governor:**

CESSNA

**Model:** 310, 310(B,C,D,E,F)  
**Trade Name:**  
**Aircraft T.C./STC:** STC-SA212SO  
**Propeller Model:** HC-A3VK-2B  
**Propeller T.C.:** P6EA  
**Blade Model(s):** V7636DB  
**Prop Diameter:** 76"

### Prop Setup:

**Ref. Radius:**  
**Reverse Angle:**  
**Low Pitch Angle:**  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u> | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|--------------------|-----------------|----------------|-----------------|
| BLADE            | V7636DB            | BLADE              | 3               | Prop           |                 |
| SPINNER          | C-2513-2P          | SPINNER ASSEMBLY   | 1               | Prop           |                 |
| GOVERNOR         | F6-4               | IDS Item           | 1               | Prop           |                 |

**IDS No.:** 2373      **Rev.:** -      **DM Date:** 12/18/2003

**Modifier:** RILEY AIRCRAFT  
**Engine Model:** IO-540-A1A5  
**Power:** 290 HP @ 2575 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:**  
**Feather/High Angle:**  
**Cwt Angle:**

**Non-HPI Governor:**

# HARTZELL

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CESSNA

**Model:** 310, 310B, 310G  
**Trade Name:**  
**Aircraft T.C./STC:** STC-SA212SO  
**Propeller Model:** HC-A3XK-2B  
**Propeller T.C.:** P6EA  
**Blade Model(s):** 7636D  
**Prop Diameter:** 76.6"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.75 +-0.25  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 2160      **Rev.:** 1      **D**      **Date:** 01/07/2011

**Modifier:** RILEY AIRCRAFT  
**Engine Model:** IO-540-A1A5  
**Power:** 290 HP @ 2575 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 85.0 +-1.0  
**Cwt Angle:** Positive

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u>            | <u>Item Number</u> | <u>Description</u>            | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|-----------------------------|--------------------|-------------------------------|-----------------|----------------|--------------------------|
| BLADE                       | 7636D              | BLADE                         | 3               | Prop           |                          |
| SPINNER                     | C-2513-2P          | SPINNER ASSEMBLY              | 1               | Prop           |                          |
| COUNTERWEIGHT SLUG A-29     |                    | SLUG, COUNTERWEIGHT           | 3               | Blade          |                          |
| COUNTERWEIGHT SLUG B-3840-8 |                    | SCREW, 10-32, FILLISTER HEAD  | 2               | Blade          |                          |
| DE-ICER                     | 4H1188-3           | DE-ICE BOOT                   | 1               | Blade          | Supersedes 7931-4E1188-3 |
| MTG BOLT/STUD               | A-1328             | BOLT,MOUNTING,1/2-20,12 POINT | 3               | Prop           |                          |
| MTG BOLT/STUD               | A-1333-3           | BOLT,MOUNTING,1/2-20,HEX HEAD | 3               | Prop           |                          |

# HARTZELL

## APPLICATION GUIDE

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CESSNA

IDS No.: 2161      Rev.: 1      D      Date: 01/07/2011

**Model:** 310, 310B, 310G  
**Trade Name:**  
**Aircraft T.C./STC:** STC-SA212SO  
**Propeller Model:** HC-A3VK-2B  
**Propeller T.C.:** P6EA  
**Blade Model(s):** V7636  
                           V7636DB  
                           V7636N  
                           V7636NB  
**Prop Diameter:** 76.6"

**Modifier:** RILEY AIRCRAFT  
**Engine Model:** IO-540-A1A5  
**Power:** 290 HP @ 2575 RPM  
**Placard/Restr:**  
**Notes:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.75 +-0.25  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 85.0 +-1.0  
**Cwt Angle:** Positive

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u>            | <u>Item Number</u> | <u>Description</u>             | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|-----------------------------|--------------------|--------------------------------|-----------------|----------------|--------------------------|
| BLADE                       | V7636              | IDS ITEM                       | 3               | Prop           |                          |
| BLADE                       | V7636DB            | BLADE                          | 3               | Prop           |                          |
| BLADE                       | V7636N             | BLADE                          | 3               | Prop           |                          |
| BLADE                       | V7636NB            | BLADE UNIT, ALUMINUM, 4E1188-3 | 3               | Prop           |                          |
| SPINNER                     | C-2513-2P          | SPINNER ASSEMBLY               | 1               | Prop           |                          |
| COUNTERWEIGHT SLUG A-29     |                    | SLUG, COUNTERWEIGHT            | 3               | Blade          |                          |
| COUNTERWEIGHT SLUG B-3840-8 |                    | SCREW, 10-32, FILLISTER HEAD   | 2               | Blade          |                          |
| DE-ICER                     | 4H1188-3           | DE-ICE BOOT                    | 1               | Blade          | Supersedes 7931-4E1188-3 |
| MTG BOLT/STUD               | A-1328             | BOLT,MOUNTING,1/2-20,12 POINT  | 3               | Prop           |                          |
| MTG BOLT/STUD               | A-1333-3           | BOLT,MOUNTING,1/2-20,HEX HEAD  | 3               | Prop           |                          |

# HARTZELL

## APPLICATION GUIDE 159

**CESSNA**

**Model:** 310, 310B, 310G  
**Trade Name:**  
**Aircraft T.C./STC:** STC-SA212SO  
**Propeller Model:** HC-A3MVK-2B  
**Propeller T.C.:** P6EA  
**Blade Model(s):** MV7636N  
 MV7636NB  
**Prop Diameter:** 76.6"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.75 +-0.25  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type                   | Item Number | Description                    | Quantity | Qty Per | Comments                 |
|-----------------------------|-------------|--------------------------------|----------|---------|--------------------------|
| BLADE                       | MV7636N     | PCP:BLADE UNIT, ALUM [1,1,1]   | 3        | Prop    |                          |
| BLADE                       | MV7636NB    | PCP:BLADE UNIT, ALUM, 4H1188-3 | 3        | Prop    |                          |
| SPINNER                     | C-2513-2P   | SPINNER ASSEMBLY               | 1        | Prop    |                          |
| COUNTERWEIGHT SLUG A-29     |             | SLUG, COUNTERWEIGHT            | 3        | Blade   |                          |
| COUNTERWEIGHT SLUG B-3840-8 |             | SCREW, 10-32, FILLISTER HEAD   | 2        | Blade   |                          |
| DE-ICER                     | 4H1188-3    | DE-ICE BOOT                    | 1        | Blade   | Supersedes 7931-4E1188-3 |
| MTG BOLT/STUD               | A-1328      | BOLT,MOUNTING,1/2-20,12 POINT  | 3        | Prop    |                          |
| MTG BOLT/STUD               | A-1333-3    | BOLT,MOUNTING,1/2-20,HEX HEAD  | 3        | Prop    |                          |

**IDS No.:** 414      **Rev.:** 1      **D**      **Date:** 01/07/2011

**Modifier:** RILEY AIRCRAFT  
**Engine Model:** IO-540-A1A5  
**Power:** 290 HP @ 2575 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 85.0 +-1.0  
**Cwt Angle:** Positive

**Non-HPI Governor:**

**CESSNA**

**Model:** 310(C-H), E310H  
**Trade Name:**  
**Aircraft T.C./STC:** 3A10  
**Propeller Model:** HC-A2XF-2B  
**Propeller T.C.:** P908  
**Blade Model(s):** 8433  
**Prop Diameter:** 84.2" TO 78"

**Prop Setup:**

**Ref. Radius:**  
**Reverse Angle:**  
**Low Pitch Angle:**  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type | Item Number | Description      | Quantity | Qty Per | Comments |
|-----------|-------------|------------------|----------|---------|----------|
| BLADE     | 8433        | BLADE            | 2        | Prop    |          |
| SPINNER   | 835-13      | SPINNER ASSEMBLY | 1        | Prop    |          |

**IDS No.:** 2370      **Rev.:** -      **DM**      **Date:** 12/18/2003

**Modifier:**  
**Engine Model:** IO-470-D  
**Power:** 260 HP @ 2625 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:**  
**Feather/High Angle:**  
**Cwt Angle:**

**Non-HPI Governor:** WOODWARD; MCCAULEY



# HARTZELL

## APPLICATION GUIDE

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CESSNA

**Model:** 310C, D, E, F, G, H, E310H  
**Trade Name:**  
**Aircraft T.C./STC:** 3A10  
**Propeller Model:** HC-82XF-2B, HC-A2XF-2B  
**Propeller T.C.:** P24EA  
**Blade Model(s):** 8433  
**Prop Diameter:** 84.2" TO 78"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.5 +-0.2  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 2158      **Rev.:** -      **DM Date:** 11/20/2003

**Modifier:**

**Engine Model:** IO-470-D

**Power:** 260 HP @ 2625 RPM

**Placard/Restr:**

**Notes:**

**Startlock Angle:** 22.0 +-1.5

**Feather/High Angle:** 82.0 +-0.5

**Cwt Angle:** Positive

**Non-HPI Governor:** WOODWARD, MCCAULEY

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u> | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|--------------------|-----------------|----------------|-----------------|
| BLADE            | 8433               | BLADE              | 2               | Prop           |                 |
| SPINNER          | 835-13             | SPINNER ASSEMBLY   | 1               | Prop           |                 |

CESSNA

**Model:** 310(C-H), E310H  
**Trade Name:**  
**Aircraft T.C./STC:** 3A10  
**Propeller Model:** HC-A2VF-2B  
**Propeller T.C.:** P24EA  
**Blade Model(s):** V8433  
**Prop Diameter:** 84.2" TO 78"

### Prop Setup:

**Ref. Radius:**  
**Reverse Angle:**  
**Low Pitch Angle:**  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 2371      **Rev.:** -      **DM Date:** 12/18/2003

**Modifier:**

**Engine Model:** IO-470-D

**Power:** 260 HP @ 2625 RPM

**Placard/Restr:**

**Notes:**

**Startlock Angle:**

**Feather/High Angle:**

**Cwt Angle:**

**Non-HPI Governor:** WOODWARD; MCCAULEY

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u> | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|--------------------|-----------------|----------------|-----------------|
| BLADE            | V8433              | BLADE              | 2               | Prop           |                 |
| SPINNER          | 835-13             | SPINNER ASSEMBLY   | 1               | Prop           |                 |

# HARTZELL

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CESSNA

**Model:** 310C, D, E, F, G, H, E310H  
**Trade Name:**  
**Aircraft T.C./STC:** 3A10  
**Propeller Model:** HC-82VF-2B, HC-A2VF-2B  
**Propeller T.C.:** P24EA  
**Blade Model(s):** V8433  
V8433N  
**Prop Diameter:** 84.2" TO 78"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.5 +-0.2  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 2159 **Rev.:** - **DM Date:** 11/20/2003

**Modifier:**  
**Engine Model:** IO-470-D  
**Power:** 260 HP @ 2625 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** 22.0 +-1.5  
**Feather/High Angle:** 82.0 +-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:** WOODWARD, MCCAULEY

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u> | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|--------------------|-----------------|----------------|-----------------|
| BLADE            | V8433              | BLADE              | 2               | Prop           |                 |
| BLADE            | V8433N             | BLADE              | 2               | Prop           |                 |
| SPINNER          | 835-13             | SPINNER ASSEMBLY   | 1               | Prop           |                 |

CESSNA

**Model:** 310C, D, E, F, G, H, E310H  
**Trade Name:**  
**Aircraft T.C./STC:** 3A10  
**Propeller Model:** HC-A2MVF-2  
**Propeller T.C.:** P24EA  
**Blade Model(s):** MV8433N  
**Prop Diameter:** 84.2" TO 78"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.5 +-0.2  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 412 **Rev.:** - **DM Date:** 05/13/1998

**Modifier:**  
**Engine Model:** IO-470-D  
**Power:** 260 HP @ 2625 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** 22.0 +-1.5  
**Feather/High Angle:** 82.0 +-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:** WOODWARD, MCCAULEY

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>           | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|------------------------------|-----------------|----------------|-----------------|
| BLADE            | MV8433N            | PCP:BLADE UNIT, ALUM [1,1,1] | 2               | Prop           |                 |
| SPINNER          | 835-13             | SPINNER ASSEMBLY             | 1               | Prop           |                 |

# HARTZELL

## APPLICATION GUIDE

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CESSNA

IDS No.: 1390 Rev.: 2 IC Date: 07/07/2015

Model: 310(C,D,E,F,G,H), E310H

Modifier: HARTZELL PROPELLER

Trade Name:

Engine Model: IO-470-D

Aircraft T.C./STC: STC-SA00799CH

Power: 260 HP @ 2625 RPM

Propeller Model: HC-C2YF-2CUF

Placard/Restr:

Propeller T.C.: P-920

Notes: Check for balance weight/travel tube interference during assembly on props with alcohol de-ice.

Blade Model(s): FC8468-3

FC8468-3\*1

FC8468B-3

FC8468B-3\*1

Prop Diameter: 81.0" TO 80.0"

**Prop Setup:**

Ref. Radius: 30

Startlock Angle: 20.0+/-2.5

Reverse Angle: NA

Feather/High Angle: 82.0 +0-0.5

Low Pitch Angle: 13.5 +-0.2

Cwt Angle:

Stud Protrusion 1.450 +-0.030

**Non-HPI Items:**

Non-HPI Spinner:

Non-HPI Governor: WOODWARD, MCCAULEY

**Hartzell Approved Items:**

| Item Type     | Item Number     | Description                    | Quantity | Qty Per | Comments                 |
|---------------|-----------------|--------------------------------|----------|---------|--------------------------|
| PROPELLER     | C2F00418        | HC-C2YF-2CUF/FC8468-3/SM8      | 2        | A/C     |                          |
| PROPELLER     | C2F00418STP     | C2F00418/SM8/C-2285-4P/TWIN    | 2        | A/C     |                          |
| PROPELLER     | C2F00419        | HC-C2YF-2CUF/FC8468B-3/SM8     | 2        | A/C     |                          |
| PROPELLER     | C2F00419STP     | C2F00419/SM8/C-2285-4P/TWIN    | 2        | A/C     |                          |
| BLADE         | FC8468-3        | PCP:BLADE UNIT, B-3202H-5 CWT  | 2        | Prop    |                          |
| BLADE         | FC8468-3*1      | IDS ITEM [3,1,1] B-3202H-5 CWT | 2        | Prop    |                          |
| BLADE         | FC8468B-3       | PCP:BLADE UNIT, ALUMINUM       | 2        | Prop    |                          |
| BLADE         | FC8468B-3*1     | IDS ITEM, C-2131-6, B-3202H-5  | 2        | Prop    |                          |
| SPINNER       | C-2285-4        | SPINNER ASSEMBLY               | 1        | Prop    |                          |
| SPINNER       | C-2285-4P       | SPINNER ASSEMBLY               | 1        | Prop    |                          |
| SPIN MTG KIT  | A-2476-8        | SPINNER - MTG KIT              | 1        | Prop    |                          |
| COUNTERWEIGHT | B-3202H-5       | PCP:COUNTERWEIGHT              | 1        | Blade   | Blade Component          |
| DE-ICER       | C-2131-6        | BOOT, ANTI-ICING               | 1        | Blade   | Blade Component          |
| DE-ICE KIT PR | A-2374-1        | ANTI-ICING - KIT               | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2429-4        | STUD, MOUNTING, 1/2-20         | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-C2YF-2CUF-OH | O/H KIT                        | 1        | Prop    | For aftermarket use only |

# HARTZELL

CESSNA

**Model:** 310L, 310N, 310P, 310Q  
**Trade Name:**  
**Aircraft T.C./STC:** STC-SA2082WE  
**Propeller Model:** HC-E3YR-2ATF  
**Propeller T.C.:**  
**Blade Model(s):** FC8468-6R  
**Prop Diameter:** 80"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:**  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>             | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|--------------------------------|-----------------|----------------|-----------------|
| BLADE            | FC8468-6R          | PCP:BLADE,UNIT, ALUM B-3202H-2 | 3               | Prop           |                 |
| SPINNER          | D-3273             | SPINNER ASSEMBLY               | 1               | Prop           |                 |
| COUNTERWEIGHT    | B-3202H-2          | PCP:COUNTERWEIGHT              | 1               | Blade          | Blade Component |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20         | 6               | Prop           |                 |

## APPLICATION GUIDE

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**IDS No.:** 413      **Rev.:** -      **DM Date:** 10/01/1992

**Modifier:** O. S. WYATT, JR.  
**Engine Model:** TIO-540-A2B  
**Power:** 310 HP @ 2575 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:**  
**Feather/High Angle:**  
**Cwt Angle:**

**Non-HPI Governor:**

# HARTZELL

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CESSNA

IDS No.: 1942 Rev.: 3 IC Date: 07/15/2015

**Model:** T310 P, Q, R  
**Trade Name:**  
**Aircraft T.C./STC:** STC SA09971SC  
**Propeller Model:** PHC-C3YF-2UF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** FC7693DF  
 FC7693DFB  
**Prop Diameter:** 78" to 76"

**Modifier:** RAM AIRCRAFT  
**Engine Model:** TSIO-520-(B, E, N)(B)  
**Power:** 325 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** 13.0 +-0.1  
**Stud Protrusion** 1.450 +- .030

**Startlock Angle:** 18.0 +-1.5  
**Feather/High Angle:** 81.1 +-1.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>           | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>           |
|------------------|--------------------|------------------------------|-----------------|----------------|---------------------------|
| PROPELLER        | C3F00260           | PHC-C3YF-2UF/FC7693DF/SM23   | 2               | A/C            |                           |
| PROPELLER        | C3F00260KD         | PHC-C3YF-2UF/FC7693DF/SM23   | 2               | A/C            |                           |
| PROPELLER        | C3F00270           | PHC-C3YF-2UF/FC7693DFB/SM23  | 2               | A/C            |                           |
| PROPELLER        | C3F00270KD         | PHC-C3YF-2UF/FC7693DFB/SM23  | 2               | A/C            |                           |
| BLADE            | FC7693DF           | PCP:BLADE UNIT, ALUM [1,1,1] | 3               | Prop           |                           |
| BLADE            | FC7693DFB          | PCP:BLADE UNIT, ALUMINUM     | 3               | Prop           |                           |
| SPINNER          | D-7267-2P          | SPINNER ASSEMBLY             | 1               | Prop           |                           |
| SPIN MTG KIT     | A-2476-23          | SPINNER - MTG KIT            | 1               | Prop           |                           |
| COUNTERWEIGHT    | B-3202H-5          | PCP:COUNTERWEIGHT            | 1               | Blade          | Blade Component           |
| DE-ICER          | 4H1601-14          | DE-ICE BOOT                  | 1               | Blade          | Supersedes 7931-4E1601-14 |
| DE-ICE KIT PR    | 7931-5E2748-1      | DE-ICE KIT (ONE PROP)        | 1               | Prop           |                           |
| MTG BOLT/STUD    | A-2429-4           | STUD, MOUNTING, 1/2-20       | 6               | Prop           | Use w/E-7167-2 Hub Only   |
| MTG BOLT/STUD    | A-2429-7           | STUD, MOUNTING, 1/2-20       | 6               | Prop           | Use w/E-7167-12 Hub Only  |
| OVERHAUL KIT     | PHC-C3YF-2UF*1     | O/H KIT W/O SLIMSERTS        | 1               | Prop           | For aftermarket use only  |
| OVERHAUL KIT     | PHC-C3YF-2UF-OH    | O/H KIT                      | 1               | Prop           | For aftermarket use only  |

# HARTZELL

## APPLICATION GUIDE

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CESSNA

**Model:** T310P,Q,R  
**Trade Name:**  
**Aircraft T.C./STC:** STC-SA4011SW  
**Propeller Model:** PHC-C3YF-2UF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** FC7663D-2Q  
 FC7663DB-2Q\*1  
**Prop Diameter:** 76"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 14.0 +-0.5  
**Stud Protrusion:** 1.450 +-0.030

**IDS No.:** 415 **Rev.:** - **DM Date:** 10/31/2006

**Modifier:** RAM AIRCRAFT CORP.  
**Engine Model:** TSIO-520-NB  
**Power:** 325 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** 19.5 +-1.5  
**Feather/High Angle:** 84.0 +-0.5  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type     | Item Number   | Description                   | Quantity | Qty Per | Comments                  |
|---------------|---------------|-------------------------------|----------|---------|---------------------------|
| BLADE         | FC7663D-2Q    | PCP:BLADE UNIT, ALUMINUM      | 3        | Prop    |                           |
| BLADE         | FC7663DB-2Q*1 | IDS ITEM, BLADE, BOOT LOC TBD | 3        | Prop    |                           |
| COUNTERWEIGHT | B-3202H-5     | PCP:COUNTERWEIGHT             | 1        | Blade   | Blade Component           |
| DE-ICER       | 4H1601-10     | DE-ICE BOOT                   | 1        | Blade   | Supersedes 7931-4E1601-10 |
| MTG BOLT/STUD | A-2429-4      | STUD, MOUNTING, 1/2-20        | 6        | Prop    |                           |

CESSNA

**Model:** 320, 320-1  
**Trade Name:** SKYKNIGHT  
**Aircraft T.C./STC:** STC-SA285SO  
**Propeller Model:** HC-83XK-2B, HC-A3XK-2B  
**Propeller T.C.:** P6EA  
**Blade Model(s):** 7636D  
**Prop Diameter:** 76.6"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.75 +-0.25  
**Stud Protrusion:**

**IDS No.:** 2166 **Rev.:** - **DM Date:** 11/20/2003

**Modifier:** RILEY AIRCRAFT  
**Engine Model:** IO-540-A1A5  
**Power:** 290 HP @ 2575 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 85.0 +-1.0  
**Cwt Angle:** Positive

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type          | Item Number | Description                      | Quantity | Qty Per | Comments |
|--------------------|-------------|----------------------------------|----------|---------|----------|
| BLADE              | 7636D       | BLADE                            | 3        | Prop    |          |
| SPINNER            | C-2513-2    | SPINNER ASSEMBLY                 | 1        | Prop    |          |
| COUNTERWEIGHT SLUG | A-29        | SLUG, COUNTERWEIGHT              | 3        | Blade   |          |
| COUNTERWEIGHT SLUG | B-3840-8    | SCREW, 10-32, FILLISTER HEAD     | 2        | Blade   |          |
| MTG BOLT/STUD      | A-1328      | BOLT, MOUNTING, 1/2-20, 12 POINT | 3        | Prop    |          |
| MTG BOLT/STUD      | A-1333-3    | BOLT, MOUNTING, 1/2-20, HEX HEAD | 3        | Prop    |          |

# HARTZELL

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CESSNA

**Model:** 320, 320-1  
**Trade Name:** SKYKNIGHT  
**Aircraft T.C./STC:** STC-SA285SO  
**Propeller Model:** HC-A3VK-2B  
**Propeller T.C.:** P6EA  
**Blade Model(s):** V7636  
V7636N  
**Prop Diameter:** 76.6"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.75 +-0.25  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type                   | Item Number | Description                      | Quantity | Qty Per | Comments |
|-----------------------------|-------------|----------------------------------|----------|---------|----------|
| BLADE                       | V7636       | IDS ITEM                         | 3        | Prop    |          |
| BLADE                       | V7636N      | BLADE                            | 3        | Prop    |          |
| SPINNER                     | C-2513-2    | SPINNER ASSEMBLY                 | 1        | Prop    |          |
| COUNTERWEIGHT SLUG A-29     |             | SLUG, COUNTERWEIGHT              | 3        | Blade   |          |
| COUNTERWEIGHT SLUG B-3840-8 |             | SCREW, 10-32, FILLISTER HEAD     | 2        | Blade   |          |
| MTG BOLT/STUD               | A-1328      | BOLT, MOUNTING, 1/2-20, 12 POINT | 3        | Prop    |          |
| MTG BOLT/STUD               | A-1333-3    | BOLT, MOUNTING, 1/2-20, HEX HEAD | 3        | Prop    |          |

**IDS No.:** 2314      **Rev.:** -      **DM Date:** 11/23/2003

**Modifier:** RILEY AIRCRAFT  
**Engine Model:** IO-540-A1A5  
**Power:** 290 HP @ 2575 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 85.0 +-1.0  
**Cwt Angle:** Positive

**Non-HPI Governor:**

CESSNA

**Model:** 320, 320-1  
**Trade Name:** SKYKNIGHT  
**Aircraft T.C./STC:** STC-SA285SO  
**Propeller Model:** HC-A3MVK-2B  
**Propeller T.C.:** P6EA  
**Blade Model(s):** MV7636N  
**Prop Diameter:** 76.6"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.75 +-0.25  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type                   | Item Number | Description                      | Quantity | Qty Per | Comments |
|-----------------------------|-------------|----------------------------------|----------|---------|----------|
| PROPELLER                   | A3K10110    | HC-A3MVK-2B/MV7636N              | 2        | A/C     |          |
| BLADE                       | MV7636N     | PCP:BLADE UNIT, ALUM [1,1,1]     | 3        | Prop    |          |
| SPINNER                     | C-2513-2    | SPINNER ASSEMBLY                 | 1        | Prop    |          |
| COUNTERWEIGHT SLUG A-29     |             | SLUG, COUNTERWEIGHT              | 3        | Blade   |          |
| COUNTERWEIGHT SLUG B-3840-8 |             | SCREW, 10-32, FILLISTER HEAD     | 2        | Blade   |          |
| MTG BOLT/STUD               | A-1328      | BOLT, MOUNTING, 1/2-20, 12 POINT | 3        | Prop    |          |
| MTG BOLT/STUD               | A-1333-3    | BOLT, MOUNTING, 1/2-20, HEX HEAD | 3        | Prop    |          |

**IDS No.:** 423      **Rev.:** 1      **D Date:** 01/07/2011

**Modifier:** RILEY AIRCRAFT  
**Engine Model:** IO-540-A1A5  
**Power:** 290 HP @ 2575 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 85.0 +-1.0  
**Cwt Angle:** Positive

**Non-HPI Governor:**

# HARTZELL

## APPLICATION GUIDE 159

CESSNA

**Model:** 320, 320-1, 320A, 320B  
**Trade Name:** SKYKNIGHT  
**Aircraft T.C./STC:** 3A25  
**Propeller Model:** HC-82XF-2, HC-A2XF-2  
**Propeller T.C.:** P24EA

**Blade Model(s):** 8433-4  
**Prop Diameter:** 80.3" TO 78"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 15.0+-0.2  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:** CESSNA

### Hartzell Approved Items:

| Item Type     | Item Number | Description                   | Quantity | Qty Per | Comments                 |
|---------------|-------------|-------------------------------|----------|---------|--------------------------|
| BLADE         | 8433-4      | BLADE                         | 2        | Prop    |                          |
| DE-ICER       | 4H1188-3    | DE-ICE BOOT                   | 1        | Blade   | Supersedes 7931-4E1188-3 |
| MTG BOLT/STUD | A-1328-1    | BOLT,MOUNTING,1/2-20,12 POINT | 6        | Prop    |                          |

**IDS No.:** 2164      **Rev.:** 1      **D**      **Date:** 01/07/2011

### **Modifier:**

**Engine Model:** TSIO-470-B, -C

**Power:** 260 HP @ 2600 RPM

**Placard/Restr:** Propeller centerline must be positioned 60 degrees advance from no. 1 throw.

### **Notes:**

**Startlock Angle:** 22.0+-1.5

**Feather/High Angle:** 84.0 +-1.0

**Cwt Angle:** Positive

**Non-HPI Governor:** WOODWARD, MCCAULEY

CESSNA

**Model:** 320, 320-1, 320A, 320B  
**Trade Name:** SKYKNIGHT  
**Aircraft T.C./STC:** 3A25  
**Propeller Model:** HC-82VF-2, HC-A2VF-2  
**Propeller T.C.:** P24EA

**Blade Model(s):** V8433-4  
V8433B-4  
V8433N-4

**Prop Diameter:** 80.3" TO 78"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 15.0+-0.2  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:** CESSNA

### Hartzell Approved Items:

| Item Type     | Item Number | Description                   | Quantity | Qty Per | Comments                 |
|---------------|-------------|-------------------------------|----------|---------|--------------------------|
| BLADE         | V8433-4     | BLADE                         | 2        | Prop    |                          |
| BLADE         | V8433B-4    | BLADE                         | 2        | Prop    |                          |
| BLADE         | V8433N-4    | BLADE                         | 2        | Prop    |                          |
| DE-ICER       | 4H1188-3    | DE-ICE BOOT                   | 1        | Blade   | Supersedes 7931-4E1188-3 |
| MTG BOLT/STUD | A-1328-1    | BOLT,MOUNTING,1/2-20,12 POINT | 6        | Prop    |                          |

**IDS No.:** 2165      **Rev.:** 1      **D**      **Date:** 01/07/2011

### **Modifier:**

**Engine Model:** TSIO-470-B, -C

**Power:** 260 HP @ 2600 RPM

**Placard/Restr:** Propeller centerline must be positioned 60 degrees advance of no. 1 throw.

### **Notes:**

**Startlock Angle:** 22.0+-1.5

**Feather/High Angle:** 84.0 +-1.0

**Cwt Angle:** Positive

**Non-HPI Governor:** WOODWARD, MCCAULEY



# HARTZELL

## APPLICATION GUIDE

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CESSNA

IDS No.: 420      Rev.: 2      IC      Date: 07/06/2015

**Model:** 320, 320-1, 320A, 320B

**Trade Name:** SKYKNIGHT

**Aircraft T.C./STC:** 3A25

**Propeller Model:** HC-A2MVF-2

**Propeller T.C.:** P24EA

**Blade Model(s):** MV8433N-4

MV8433N-4\*1

MV8433NB-4

**Prop Diameter:** 80.3" TO 78"

**Prop Setup:**

**Ref. Radius:** 30

**Reverse Angle:** NA

**Low Pitch Angle:** 15.0+0.2

**Stud Protrusion**

**Modifier:**

**Engine Model:** TSIO-470-B, -C

**Power:** 260 HP @ 2600 RPM

**Placard/Restr:**

**Notes:**

**Startlock Angle:** 22.0+-1.5

**Feather/High Angle:** 84.0 +-1.0

**Cwt Angle:** Positive

**Non-HPI Items:**

**Non-HPI Spinner:** CESSNA

**Non-HPI Governor:** WOODWARD, MCCAULEY

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>               | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|----------------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | A2F10157           | HC-A2MVF-2/MV8433NB-4            | 2               | A/C            |                          |
| PROPELLER        | A2F10158           | HC-A2MVF-2/MV8433N-4             | 2               | A/C            |                          |
| PROPELLER        | A2F10161           | HC-A2MVF-2/MV8433N-4[*1]         | 2               | A/C            |                          |
| BLADE            | MV8433N-4          | PCP:BLADE UNIT, ALUMINUM         | 2               | Prop           |                          |
| BLADE            | MV8433N-4*1        | PCP:BLADE UNIT, ALUM [3,1,1]     | 2               | Prop           |                          |
| BLADE            | MV8433NB-4         | BLADE UNIT, ALUMINUM             | 2               | Prop           |                          |
| DE-ICER          | 4H1188-3           | DE-ICE BOOT                      | 1               | Blade          | Supersedes 7931-4E1188-3 |
| MTG BOLT/STUD    | A-1328-1           | BOLT, MOUNTING, 1/2-20, 12 POINT | 6               | Prop           |                          |
| OVERHAUL KIT     | HC-A2MVF-2-OH      | O/H KIT                          | 1               | Prop           | For aftermarket use only |

# HARTZELL

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CESSNA

**Model:** 320C  
**Trade Name:** SKYKNIGHT  
**Aircraft T.C./STC:** STC-SA2122WE  
**Propeller Model:** HC-E3YR-2ATF  
**Propeller T.C.:**  
**Blade Model(s):** FC8468-6R  
 FC8468-8R  
 FJC8468-6R  
 FJC8468-8R

**Prop Diameter:** 78", 80"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 16.0 +-0.1  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

**IDS No.:** 421      **Rev.:** -      **DM Date:** 01/22/1997

**Modifier:** O. S. WYATT, JR.  
**Engine Model:** TIO-540-J, -N2BD; LTIO-540  
**Power:** 310 HP @ 2575 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** 21.5 +-1.5  
**Feather/High Angle:** 82.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>             | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|--------------------------------|-----------------|----------------|-----------------|
| BLADE            | FC8468-6R          | PCP:BLADE,UNIT, ALUM B-3202H-2 | 3               | Prop           |                 |
| BLADE            | FC8468-8R          | PCP:BLADE UNIT, ALUM B-3202H-2 | 3               | Prop           |                 |
| BLADE            | FJC8468-6R         | PCP:BLADE UNIT, ALUMINUM       | 3               | Prop           |                 |
| BLADE            | FJC8468-8R         | PCP:BLADE UNIT, ALUMINUM       | 3               | Prop           |                 |
| SPINNER          | C-3567-1           | SPINNER ASSEMBLY               | 1               | Prop           |                 |
| COUNTERWEIGHT    | B-3202H-2          | PCP:COUNTERWEIGHT              | 1               | Blade          | Blade Component |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20         | 6               | Prop           |                 |

# HARTZELL

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CESSNA

IDS No.: 1943 Rev.: 3 IC Date: 07/15/2015

**Model:** 320 (D, E, F)  
**Trade Name:**  
**Aircraft T.C./STC:** STC SA09971SC  
**Propeller Model:** PHC-C3YF-2UF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** FC7693DF  
 FC7693DFB  
**Prop Diameter:** 78" to 76"

**Modifier:** RAM AIRCRAFT  
**Engine Model:** TSIO-520-(B, E, N)(B)  
**Power:** 325 HP @ 2700 RPM  
**Placard/Restr:**

**Notes:** Engine Ratings: -B(B), 285HP; -E(B), 300HP; -N(B), 310HP; -NB with STC SE4327SW, 325HP

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** 13.0 +-0.1  
**Stud Protrusion** 1.450 +- .030

**Startlock Angle:** 18.0 +-1.5  
**Feather/High Angle:** 81.1 +-1.0  
**Cwt Angle:**

### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| Item Type     | Item Number     | Description                  | Quantity | Qty Per | Comments                  |
|---------------|-----------------|------------------------------|----------|---------|---------------------------|
| PROPELLER     | C3F00260        | PHC-C3YF-2UF/FC7693DF/SM23   | 2        | A/C     |                           |
| PROPELLER     | C3F00260KD      | PHC-C3YF-2UF/FC7693DF/SM23   | 2        | A/C     |                           |
| PROPELLER     | C3F00270        | PHC-C3YF-2UF/FC7693DFB/SM23  | 2        | A/C     |                           |
| PROPELLER     | C3F00270KD      | PHC-C3YF-2UF/FC7693DFB/SM23  | 2        | A/C     |                           |
| BLADE         | FC7693DF        | PCP:BLADE UNIT, ALUM [1,1,1] | 3        | Prop    |                           |
| BLADE         | FC7693DFB       | PCP:BLADE UNIT, ALUMINUM     | 3        | Prop    |                           |
| SPINNER       | D-7267-2P       | SPINNER ASSEMBLY             | 1        | Prop    |                           |
| SPIN MTG KIT  | A-2476-23       | SPINNER - MTG KIT            | 1        | Prop    |                           |
| COUNTERWEIGHT | B-3202H-5       | PCP:COUNTERWEIGHT            | 1        | Blade   | Blade Component           |
| DE-ICER       | 4H1601-14       | DE-ICE BOOT                  | 1        | Blade   | Supersedes 7931-4E1601-14 |
| DE-ICE KIT PR | 7931-5E2748-1   | DE-ICE KIT (ONE PROP)        | 1        | Prop    |                           |
| MTG BOLT/STUD | A-2429-4        | STUD, MOUNTING, 1/2-20       | 6        | Prop    | Use w/E-7167-2 Hub Only   |
| MTG BOLT/STUD | A-2429-7        | STUD, MOUNTING, 1/2-20       | 6        | Prop    | Use w/E-7167-12 Hub Only  |
| OVERHAUL KIT  | PHC-C3YF-2UF*1  | O/H KIT W/O SLIMSERTS        | 1        | Prop    | For aftermarket use only  |
| OVERHAUL KIT  | PHC-C3YF-2UF-OH | O/H KIT                      | 1        | Prop    | For aftermarket use only  |

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**CESSNA**

**Model:** 320E, 320V  
**Trade Name:** SKYKNIGHT  
**Aircraft T.C./STC:** STC-SA2122WE  
**Propeller Model:** HC-E3YR-2ATF  
**Propeller T.C.:**  
**Blade Model(s):** FC8468-6R  
**Prop Diameter:** 80" TO 76"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** 16.0 +-0.1  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number | Description                    | Quantity | Qty Per | Comments        |
|---------------|-------------|--------------------------------|----------|---------|-----------------|
| BLADE         | FC8468-6R   | PCP:BLADE,UNIT, ALUM B-3202H-2 | 3        | Prop    |                 |
| SPINNER       | D-3273      | SPINNER ASSEMBLY               | 1        | Prop    |                 |
| COUNTERWEIGHT | B-3202H-2   | PCP:COUNTERWEIGHT              | 1        | Blade   | Blade Component |
| MTG BOLT/STUD | A-2067      | STUD, MOUNTING, 1/2-20         | 6        | Prop    |                 |

**IDS No.:** 422      **Rev.:** -      **DM Date:** 10/01/1992

**Modifier:** O. S. WYATT, JR.  
**Engine Model:** TIO-540-A2B  
**Power:** 310 HP @ 2575 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** 21.5 +-1.5  
**Feather/High Angle:** 82.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

**CESSNA**

**Model:** P337H, T337G (front)  
**Trade Name:** PRESSURIZED SKYMASTER  
**Aircraft T.C./STC:** SA00080LA  
**Propeller Model:** PHC-G3YF-2UF  
**Propeller T.C.:** P55GL  
  
**Blade Model(s):** FC7663DB-2R  
**Prop Diameter:** 76.0" TO 75.0"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.5 +-0.1  
**Stud Protrusion** 1.450 +-0.030

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number     | Description                  | Quantity | Qty Per | Comments                               |
|---------------|-----------------|------------------------------|----------|---------|--|
| PROPELLER     | G3F00060        | PHC-G3YF-2UF/FC7663DB-2R/SM9 | 2        | A/C     |  |
| BLADE         | FC7663DB-2R     | PCP:BLADE UNIT, ALUMINUM     | 3        | Prop    |  |
| SPINNER       | C-4558-3P       | SPINNER ASSEMBLY             | 1        | Prop    |  |
| SPIN MTG KIT  | A-2476-9        | SPINNER - MTG KIT            | 1        | Prop    |  |
| COUNTERWEIGHT | B-3202H-5       | PCP:COUNTERWEIGHT            | 1        | Blade   | Blade Component                        |
| DE-ICER       | 4H1601-14       | DE-ICE BOOT                  | 1        | Blade   | Supersedes 4H1601-10 & 7931-4E1601-10. |
| DE-ICE KIT PR | 7931-65-595-1   | DE-ICE KIT (ONE PROP)        | 1        | Prop    |  |
| MTG BOLT/STUD | A-2429-4        | STUD, MOUNTING, 1/2-20       | 6        | Prop    |  |
| OVERHAUL KIT  | PHC-G3YF-2UF-OH | O/H KIT                      | 1        | Prop    | For aftermarket use only               |

**IDS No.:** 424      **Rev.:** 4      **IC Date:** 07/16/2015

**Modifier:** SUPER SKYROCKET  
**Engine Model:** TSIO-520-NB  
**Power:** 300 HP @ 2600 RPM  
**Placard/Restr:** Preflight propeller feather/functional checks must be completed above 1450 RPM.

**Notes:**

**Startlock Angle:** 19.0 +-1.5  
**Feather/High Angle:** 80.5 +-0.5  
**Cwt Angle:**

**Non-HPI Governor:**

# HARTZELL

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CESSNA

**Model:** P337H, T337G (rear)  
**Trade Name:** PRESSURIZED SKYMASTER  
**Aircraft T.C./STC:** SA00080LA  
**Propeller Model:** PHC-I3YF-2AL  
**Propeller T.C.:** P33EA

**Blade Model(s):** FLC7663DF-2R  
**Prop Diameter:** 76.0" TO 75.0"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 15.8 +/-0.1  
**Stud Protrusion:** 1.450 +/-0.030

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 425      **Rev.:** 1      **IC Date:** 07/15/2015

**Modifier:** SUPER SKYROCKET  
**Engine Model:** TSIO-520-NB  
**Power:** 300 HP @ 2600 RPM  
**Placard/Restr:** Preflight propeller feather/functional checks must be completed above 1450 RPM.

**Notes:**

**Startlock Angle:** 21.3 +/-1.5  
**Feather/High Angle:** 80.5 +/-0.5  
**Cwt Angle:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>            | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|-------------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | I3F00020           | PHC-I3YF-2AL/FLC7663DF-2R/SM9 | 2               | A/C            |                          |
| BLADE            | FLC7663DF-2R       | PCP:BLADE UNIT, ALUMINUM      | 3               | Prop           |                          |
| SPINNER          | C-4558-2P          | SPINNER ASSEMBLY              | 1               | Prop           |                          |
| SPIN MTG KIT     | A-2476-9           | SPINNER - MTG KIT             | 1               | Prop           |                          |
| COUNTERWEIGHT    | B-3202H-5          | PCP:COUNTERWEIGHT             | 1               | Blade          | Blade Component          |
| MTG BOLT/STUD    | A-2429-4           | STUD, MOUNTING, 1/2-20        | 6               | Prop           |                          |
| OVERHAUL KIT     | PHC-I3YF-2AL-OH    | O/H KIT                       | 1               | Prop           | For aftermarket use only |

**Non-HPI Governor:**

CESSNA

**Model:** 340 (left side)  
**Trade Name:**  
**Aircraft T.C./STC:** STC-SA3923WE  
**Propeller Model:** HC-E3YR-2ATF  
**Propeller T.C.:** P33EA  
**Blade Model(s):** FC8468B-8R  
**Prop Diameter:** 78.0"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 16.0 +/-0.1  
**Stud Protrusion:**

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 1267      **Rev.:** -      **DM Date:** 10/31/2006

**Modifier:** O. S. WYATT, JR.  
**Engine Model:** TIO-540-R2AD  
**Power:** 350 HP @ 2575 RPM  
**Placard/Restr:**

**Notes:**

**Startlock Angle:** 21.5 +/-1.5  
**Feather/High Angle:** 81.0 +/-1.0  
**Cwt Angle:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>             | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|--------------------------------|-----------------|----------------|--------------------------|
| BLADE            | FC8468B-8R         | FC8468-8R BLADE, B-3202H-2 CWT | 3               | Prop           |                          |
| GOVERNOR         | F6-24              | GOVERNOR ASSEMBLY, F-6-( )     | 1               | Prop           | Left Side                |
| COUNTERWEIGHT    | B-3202H-2          | PCP:COUNTERWEIGHT              | 1               | Blade          | Blade Component          |
| DE-ICER          | 4H1188-4           | DE-ICE BOOT                    | 1               | Blade          | Supersedes 7931-4E1188-4 |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20         | 6               | Prop           |                          |

**Non-HPI Governor:**

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CESSNA

**Model:** 340 (right side)  
**Trade Name:**  
**Aircraft T.C./STC:** STC-SA3923WE  
**Propeller Model:** HC-E3YR-2ALTF  
**Propeller T.C.:** P33EA  
**Blade Model(s):** FJC8468B-8R  
**Prop Diameter:** 78.0"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 16.0 +-0.1  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number | Description                | Quantity | Qty Per | Comments        |
|---------------|-------------|----------------------------|----------|---------|-----------------|
| BLADE         | FJC8468B-8R | PCP:BLADE UNIT, ALUMINUM   | 3        | Prop    |                 |
| GOVERNOR      | F8-48L      | GOVERNOR ASSEMBLY, F-8-( ) | 1        | Prop    | Right side      |
| COUNTERWEIGHT | B-3202H-2   | PCP:COUNTERWEIGHT          | 1        | Blade   | Blade Component |
| MTG BOLT/STUD | A-2067      | STUD, MOUNTING, 1/2-20     | 6        | Prop    |                 |

**IDS No.:** 1268      **Rev.:** -      **DM Date:** 01/22/1997

**Modifier:** O. S. WYATT, JR.  
**Engine Model:** LTIO-540-R2AD  
**Power:** 350 HP @ 2575 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** 21.5 +-1.5  
**Feather/High Angle:** 81.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

CESSNA

**Model:** 340  
**Trade Name:**  
**Aircraft T.C./STC:** STC-SA2346SW  
**Propeller Model:** PHC-C3YF-2UF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** FC7663D-2Q  
 FC7663D-2R  
**Prop Diameter:** 76"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 14.0 +-0.1  
**Stud Protrusion** 1.450 +-0.030

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number | Description              | Quantity | Qty Per | Comments        |
|---------------|-------------|--------------------------|----------|---------|-----------------|
| BLADE         | FC7663D-2Q  | PCP:BLADE UNIT, ALUMINUM | 3        | Prop    |                 |
| BLADE         | FC7663D-2R  | PCP:BLADE UNIT, ALUMINUM | 3        | Prop    |                 |
| SPINNER       | C-4558-2P   | SPINNER ASSEMBLY         | 1        | Prop    |                 |
| COUNTERWEIGHT | B-3202H-5   | PCP:COUNTERWEIGHT        | 1        | Blade   | Blade Component |
| MTG BOLT/STUD | A-2429-4    | STUD, MOUNTING, 1/2-20   | 6        | Prop    |                 |

**IDS No.:** 426      **Rev.:** -      **DM Date:** 10/01/1992

**Modifier:** RAM AIRCRAFT CORP.  
**Engine Model:** TSIO-520-NB  
**Power:** 310 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** 19.5 +-1.5  
**Feather/High Angle:** 84.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

# HARTZELL

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CESSNA

IDS No.: 1724 Rev.: 3 IC Date: 07/15/2015

**Model:** 340(A)  
**Trade Name:**  
**Aircraft T.C./STC:** SA09971SC  
**Propeller Model:** PHC-C3YF-2UF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** FC7693DF  
 FC7693DFB  
**Prop Diameter:** 78" to 76"

**Modifier:** RAM AIRCRAFT  
**Engine Model:** TSIO-520-J, K(B), N(B)  
**Power:** 335 HP @ 2700 RPM  
**Placard/Restr:**

**Notes:** Engine Ratings: -J & N(B), 310HP; -K(B), 285HP; -N(B) with STC SE3714SW, 310HP; -NB with STC SE4327SW, 325HP; -NB with STC SE09104SC, 335HP

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.0 +-0.1  
**Stud Protrusion** 1.450 +-0.030

**Startlock Angle:** 18.0 +-1.5

**Feather/High Angle:** 81.1 +-1.0

**Cwt Angle:**

### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| Item Type     | Item Number     | Description                  | Quantity | Qty Per | Comments                  |
|---------------|-----------------|------------------------------|----------|---------|---------------------------|
| PROPELLER     | C3F00260        | PHC-C3YF-2UF/FC7693DF/SM23   | 2        | A/C     |                           |
| PROPELLER     | C3F00260KD      | PHC-C3YF-2UF/FC7693DF/SM23   | 2        | A/C     |                           |
| PROPELLER     | C3F00270        | PHC-C3YF-2UF/FC7693DFB/SM23  | 2        | A/C     |                           |
| PROPELLER     | C3F00270KD      | PHC-C3YF-2UF/FC7693DFB/SM23  | 2        | A/C     |                           |
| PROPELLER     | C3F00270S       | PHC-C3YF-2UF/FC7693DFB/SM23  | 2        | A/C     |                           |
| BLADE         | FC7693DF        | PCP:BLADE UNIT, ALUM [1,1,1] | 3        | Prop    |                           |
| BLADE         | FC7693DFB       | PCP:BLADE UNIT, ALUMINUM     | 3        | Prop    |                           |
| SPINNER       | D-7267-2P       | SPINNER ASSEMBLY             | 1        | Prop    |                           |
| SPIN MTG KIT  | A-2476-23       | SPINNER - MTG KIT            | 1        | Prop    |                           |
| COUNTERWEIGHT | B-3202H-5       | PCP:COUNTERWEIGHT            | 1        | Blade   | Blade Component           |
| DE-ICER       | 4H1601-14       | DE-ICE BOOT                  | 1        | Blade   | Supersedes 7931-4E1601-14 |
| DE-ICE KIT PR | 7931-5E2748-1   | DE-ICE KIT (ONE PROP)        | 1        | Prop    |                           |
| MTG BOLT/STUD | A-2429-4        | STUD, MOUNTING, 1/2-20       | 6        | Prop    | Use w/E-7167-2 Hub Only   |
| MTG BOLT/STUD | A-2429-7        | STUD, MOUNTING, 1/2-20       | 6        | Prop    | Use w/E-7167-12 Hub Only  |
| OVERHAUL KIT  | PHC-C3YF-2UF*1  | O/H KIT W/O SLIMSERTS        | 1        | Prop    | For aftermarket use only  |
| OVERHAUL KIT  | PHC-C3YF-2UF-OH | O/H KIT                      | 1        | Prop    | For aftermarket use only  |

# HARTZELL

## APPLICATION GUIDE

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CESSNA

**Model:** 340A  
**Trade Name:**  
**Aircraft T.C./STC:** STC-SA4241SW  
**Propeller Model:** PHC-C3YF-2UF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** FC7663D-2Q  
FC7663D-2R  
**Prop Diameter:** 76"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 14.0 +-0.1  
**Stud Protrusion:** 1.450 +-0.030

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 427      **Rev.:** -      **DM Date:** 10/01/1992

**Modifier:** RAM AIRCRAFT CORP.  
**Engine Model:** TSIO-520-NB  
**Power:** 310 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** 19.5 +-1.5  
**Feather/High Angle:** 84.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>       | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|--------------------------|-----------------|----------------|-----------------|
| BLADE            | FC7663D-2Q         | PCP:BLADE UNIT, ALUMINUM | 3               | Prop           |                 |
| BLADE            | FC7663D-2R         | PCP:BLADE UNIT, ALUMINUM | 3               | Prop           |                 |
| SPINNER          | C-4558-2P          | SPINNER ASSEMBLY         | 1               | Prop           |                 |
| COUNTERWEIGHT    | B-3202H-5          | PCP:COUNTERWEIGHT        | 1               | Blade          | Blade Component |
| MTG BOLT/STUD    | A-2429-4           | STUD, MOUNTING, 1/2-20   | 6               | Prop           |                 |



# HARTZELL

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CESSNA

IDS No.: 2884 Rev.: 3 IC Date: 07/15/2015

Model: 340, 340A

Modifier: O&N

Trade Name:

Engine Model: 250-B17F

Aircraft T.C./STC: SA03118NY

Power: 400 HP @ 2030 RPM

Propeller Model: HC-B3TF-7A

Placard/Restr:

Propeller T.C.: P15EA

Notes:

Blade Model(s): T9212DNK-7

Prop Diameter: 85"

### Prop Setup:

Ref. Radius: 30

Startlock Angle: NA

Reverse Angle: -10.0 +-0.5

Feather/High Angle: 84.0 +-0.5

Low Pitch Angle: NA

Cwt Angle: 1.5 +-1.0

Stud Protrusion

### Non-HPI Items:

Non-HPI Spinner:

Non-HPI Governor:

### Hartzell Approved Items:

| Item Type                      | Item Number   | Description                    | Quantity | Qty Per | Comments                 |
|--------------------------------|---------------|--------------------------------|----------|---------|--------------------------|
| PROPELLER                      | B3F10110S     | HC-B3TF-7A/T9212DNK-7/835-39EP | 2        | A/C     |                          |
| BLADE                          | T9212DNK-7    | PCP:BLADE UNIT, ALUMINUM       | 3        | Prop    |                          |
| SPINNER                        | 835-39E       | SPINNER ASSEMBLY               | 1        | Prop    |                          |
| SPINNER                        | 835-39EP      | SPINNER ASSEMBLY               | 1        | Prop    |                          |
| SPIN MTG KIT                   | A-3491        | SPINNER - MTG KIT              | 1        | Prop    |                          |
| COUNTERWEIGHT SLUG B-3386-14H  |               | BOLT,3/8-24,HEX HEAD           | 2        | Blade   | Bolt, 3/8-24, hex head   |
| COUNTERWEIGHT SLUG B-3663-3    |               | PCP:SLUG, COUNTERWEIGHT        | 1        | Blade   |                          |
| COUNTERWEIGHT SLUG B-3834-0632 |               | WASHER                         | 2        | Blade   |                          |
| DE-ICER                        | 102663        | DE-ICE BOOT                    | 1        | Blade   |                          |
| DE-ICE KIT PR                  | 102655-1      | DE-ICE KIT (ONE PROP)          | 1        | Prop    |                          |
| MTG BOLT/STUD                  | A-1328-1      | BOLT,MOUNTING,1/2-20,12 POINT  | 6        | Prop    |                          |
| MISC ACCES                     | C-3630-2      | PCP:BETA VALVE - ASSEMBLY      | 1        | Prop    | Beta Valve Assembly      |
| OVERHAUL KIT                   | HC-B3TF-7A-OH | O/H KIT                        | 1        | Prop    | For aftermarket use only |

# HARTZELL

## APPLICATION GUIDE

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CESSNA

**Model:** LC42-550FG  
**Trade Name:** CESSNA 350  
**Aircraft T.C./STC:** Experimental  
**Propeller Model:** PHC-J3YF-1RF  
**Propeller T.C.:** P36EA  
**Blade Model(s):** F7391  
**Prop Diameter:** 75

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** 14.3 +-0.2  
**Stud Protrusion** 1.450 +-0.030

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number     | Description                  | Quantity | Qty Per | Comments                 |
|---------------|-----------------|------------------------------|----------|---------|--------------------------|
| PROPELLER     | J3F07000        | PHC-J3YF-1RF/F7391/SM35      | 1        | A/C     |                          |
| BLADE         | F7391           | PCP:BLADE UNIT, ALUM [6,1,5] | 3        | Prop    |                          |
| SPINNER       | C-6446-1P       | SPINNER ASSEMBLY             | 1        | A/C     |                          |
| SPIN MTG KIT  | A-2476-35       | SPINNER - MTG KIT            | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2429-4        | STUD, MOUNTING, 1/2-20       | 6        | Prop    |                          |
| OVERHAUL KIT  | PHC-J3YF-1RF-OH | O/H KIT                      | 1        | Prop    | For aftermarket use only |

**IDS No.:** 2592      **Rev.:** 1      **IC Date:** 07/16/2015

**Modifier:** HARTZELL PROPELLER INC.  
**Engine Model:** IO-550-N  
**Power:** 310 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:**  
**Feather/High Angle:** 40.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

CESSNA

**Model:** LC42-550FG  
**Trade Name:** CESSNA 350  
**Aircraft T.C./STC:** Experimental  
**Propeller Model:** PHC-J3YF-1RF  
**Propeller T.C.:** P36EA  
**Blade Model(s):** F7693DF-2\*1  
**Prop Diameter:** 76

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** 13.3 +-0.2  
**Stud Protrusion** 1.450 +-0.030

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number     | Description                    | Quantity | Qty Per | Comments                 |
|---------------|-----------------|--------------------------------|----------|---------|--------------------------|
| PROPELLER     | J3F09070        | PHC-J3YF-1RF/F7693DF-2[*1/SM25 | 1        | A/C     |                          |
| BLADE         | F7693DF-2*1     | PCP:BLADE UNIT, ALUM [6,1,1]   | 3        | Prop    |                          |
| SPINNER       | C-6446-1P       | SPINNER ASSEMBLY               | 1        | A/C     |                          |
| SPIN MTG KIT  | A-2476-25       | SPINNER - MTG KIT              | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2429-4        | STUD, MOUNTING, 1/2-20         | 6        | Prop    |                          |
| OVERHAUL KIT  | PHC-J3YF-1RF-OH | O/H KIT                        | 1        | Prop    | For aftermarket use only |

**IDS No.:** 2593      **Rev.:** 1      **IC Date:** 07/16/2015

**Modifier:** HARTZELL PROPELLER INC.  
**Engine Model:** IO-550-N  
**Power:** 310 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:** Verify spinner mounting kit (.250) with customer for production configuration.

**Startlock Angle:**  
**Feather/High Angle:** 40.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

# HARTZELL

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CESSNA

IDS No.: 429      Rev.: 1      D      Date: 01/07/2011

**Model:** 402  
**Trade Name:** BUSINESSLINER  
**Aircraft T.C./STC:** STC-SA2424WE  
**Propeller Model:** HC-B3TF-7  
**Propeller T.C.:** P15EA  
**Blade Model(s):** T10173-11  
    T10173N-11  
**Prop Diameter:** 89.6"

**Modifier:** AMERICAN JET  
**Engine Model:** 250-B17  
**Power:** 400 HP @ 2030 RPM  
**Placard/Restr:**  
**Notes:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** -10.0 +-0.5  
**Low Pitch Angle:** NA  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 86.0 +-0.5  
**Cwt Angle:** Unknown

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u>               | <u>Item Number</u> | <u>Description</u>            | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|--------------------------------|--------------------|-------------------------------|-----------------|----------------|-----------------|
| BLADE                          | T10173-11          | IDS*ITEM, BLADE               | 3               | Prop           |                 |
| BLADE                          | T10173N-11         | IDS ITEM, BLADE               | 3               | Prop           |                 |
| SPINNER                        | A-3640             | SPINNER ASSEMBLY              | 1               | Prop           |                 |
| SPIN MTG KIT                   | A-3648             | SPINNER - MTG KIT             | 1               | Prop           |                 |
| COUNTERWEIGHT SLUG B-3386-14H  |                    | BOLT,3/8-24,HEX HEAD          | 2               | Blade          |                 |
| COUNTERWEIGHT SLUG B-3663      |                    | PCP:SLUG, COUNTERWEIGHT       | 1               | Blade          |                 |
| COUNTERWEIGHT SLUG B-3834-0632 |                    | WASHER                        | 2               | Blade          |                 |
| MTG BOLT/STUD                  | A-1328-1           | BOLT,MOUNTING,1/2-20,12 POINT | 6               | Prop           |                 |

# HARTZELL

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CESSNA

IDS No.: 1944 Rev.: 3 IC Date: 07/15/2015

Model: 402C  
 Trade Name:  
 Aircraft T.C./STC: STC SA09971SC  
 Propeller Model: PHC-C3YF-2UF  
 Propeller T.C.: P25EA  
 Blade Model(s): FC7693DF  
 FC7693DFB  
 Prop Diameter: 78" to 76"

Modifier: RAM AIRCRAFT  
 Engine Model: TSIO-520-VB  
 Power: 325 HP @ 2700 RPM  
 Placard/Restr:  
 Notes:

### Prop Setup:

Ref. Radius: 30  
 Reverse Angle:  
 Low Pitch Angle: 13.0 +-0.1  
 Stud Protrusion 1.450 +- .030

Startlock Angle: 18.0 +-1.5  
 Feather/High Angle: 81.1 +-1.0  
 Cwt Angle:

### Non-HPI Items:

Non-HPI Spinner:

Non-HPI Governor:

### Hartzell Approved Items:

| Item Type     | Item Number     | Description                  | Quantity | Qty Per | Comments                  |
|---------------|-----------------|------------------------------|----------|---------|---------------------------|
| PROPELLER     | C3F00260        | PHC-C3YF-2UF/FC7693DF/SM23   | 2        | A/C     |                           |
| PROPELLER     | C3F00260KD      | PHC-C3YF-2UF/FC7693DF/SM23   | 2        | A/C     |                           |
| PROPELLER     | C3F00270        | PHC-C3YF-2UF/FC7693DFB/SM23  | 2        | A/C     |                           |
| PROPELLER     | C3F00270KD      | PHC-C3YF-2UF/FC7693DFB/SM23  | 2        | A/C     |                           |
| BLADE         | FC7693DF        | PCP:BLADE UNIT, ALUM [1,1,1] | 3        | Prop    |                           |
| BLADE         | FC7693DFB       | PCP:BLADE UNIT, ALUMINUM     | 3        | Prop    |                           |
| SPINNER       | D-7267-2P       | SPINNER ASSEMBLY             | 1        | Prop    |                           |
| SPIN MTG KIT  | A-2476-23       | SPINNER - MTG KIT            | 1        | Prop    |                           |
| COUNTERWEIGHT | B-3202H-5       | PCP:COUNTERWEIGHT            | 1        | Blade   | Blade Component           |
| DE-ICER       | 4H1601-14       | DE-ICE BOOT                  | 1        | Blade   | Supersedes 7931-4E1601-14 |
| DE-ICE KIT PR | 7931-5E2748-1   | DE-ICE KIT (ONE PROP)        | 1        | Prop    |                           |
| MTG BOLT/STUD | A-2429-4        | STUD, MOUNTING, 1/2-20       | 6        | Prop    | Use w/E-7167-2 Hub Only   |
| MTG BOLT/STUD | A-2429-7        | STUD, MOUNTING, 1/2-20       | 6        | Prop    | Use w/E-7167-12 Hub Only  |
| OVERHAUL KIT  | PHC-C3YF-2UF*1  | O/H KIT W/O SLIMSERTS        | 1        | Prop    | For aftermarket use only  |
| OVERHAUL KIT  | PHC-C3YF-2UF-OH | O/H KIT                      | 1        | Prop    | For aftermarket use only  |

# HARTZELL

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**CESSNA**

**Model:** 411  
**Trade Name:**  
**Aircraft T.C./STC:** A7CE  
**Propeller Model:** HC-83VF-2D, HC-A3VF-2D  
**Propeller T.C.:** P6EA  
**Blade Model(s):** V8833  
 V8833N  
**Prop Diameter:** 88.6" TO 86.4"

**IDS No.:** 2167 **Rev.:** - **DM Date:** 11/20/2003

**Modifier:**  
**Engine Model:** GTSIO-520-C  
**Power:** 340 HP @ 2400 RPM  
**Placard/Restr:**  
**Notes:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.9 +-0.1  
**Stud Protrusion**

**Startlock Angle:** 18.5 +-1.5  
**Feather/High Angle:** 85.0 +-1.0  
**Cwt Angle:** Positive

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:** WOODWARD

**Hartzell Approved Items:**

| Item Type                    | Item Number | Description                   | Quantity | Qty Per | Comments |
|------------------------------|-------------|-------------------------------|----------|---------|----------|
| BLADE                        | V8833       | BLADE UNIT                    | 3        | Prop    |          |
| BLADE                        | V8833N      | BLADE UNIT                    | 3        | Prop    |          |
| SPINNER                      | 835-20      | IDS Item                      | 1        | Prop    | Per tc   |
| SPINNER                      | 835-29      | SPINNER ASSEMBLY              | 1        | Prop    |          |
| COUNTERWEIGHT SLUG A-890-9   |             | PCP:SLUG, COUNTERWEIGHT       | 1        | Blade   |          |
| COUNTERWEIGHT SLUG B-3384-3H |             | BOLT, 1/4-28, HEX HEAD        | 2        | Blade   |          |
| MTG BOLT/STUD                | A-1328-1    | BOLT,MOUNTING,1/2-20,12 POINT | 6        | Prop    |          |

**CESSNA**

**Model:** 411  
**Trade Name:**  
**Aircraft T.C./STC:** A7CE  
**Propeller Model:** HC-A3MVF-2D  
**Propeller T.C.:** P6EA  
**Blade Model(s):** MV8833N  
**Prop Diameter:** 88.6" TO 86.4"

**IDS No.:** 431 **Rev.:** 2 **IC Date:** 07/07/2015

**Modifier:**  
**Engine Model:** GTSIO-520-C  
**Power:** 340 HP @ 2400 RPM  
**Placard/Restr:**  
**Notes:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.9 +-0.1  
**Stud Protrusion**

**Startlock Angle:** 18.5 +-1.5  
**Feather/High Angle:** 85.0 +-1.0  
**Cwt Angle:** Positive

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:** WOODWARD

**Hartzell Approved Items:**

| Item Type                    | Item Number    | Description                   | Quantity | Qty Per | Comments                 |
|------------------------------|----------------|-------------------------------|----------|---------|--------------------------|
| PROPELLER                    | A3F10085       | HC-A3MVF-2D/MV8833N           | 2        | A/C     |                          |
| BLADE                        | MV8833N        | PCP:BLADE UNIT, ALUM [1,1,1]  | 3        | Prop    |                          |
| SPINNER                      | 835-20         | IDS Item                      | 1        | Prop    | Per tc                   |
| SPINNER                      | 835-29         | SPINNER ASSEMBLY              | 1        | Prop    |                          |
| COUNTERWEIGHT SLUG A-890-9   |                | PCP:SLUG, COUNTERWEIGHT       | 1        | Blade   |                          |
| COUNTERWEIGHT SLUG B-3384-3H |                | BOLT, 1/4-28, HEX HEAD        | 2        | Blade   |                          |
| MTG BOLT/STUD                | A-1328-1       | BOLT,MOUNTING,1/2-20,12 POINT | 6        | Prop    |                          |
| OVERHAUL KIT                 | HC-A3MVF-2D-OH | O/H KIT                       | 1        | Prop    | For aftermarket use only |

# HARTZELL

CESSNA

**Model:** 414  
**Trade Name:**  
**Aircraft T.C./STC:** STC-SA2680SW  
**Propeller Model:** HC-F4YR-2  
**Propeller T.C.:** P53GL

**Blade Model(s):** FC7663DB-4R  
FC7663DB-6Q

**Prop Diameter:** 74.5"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.0 +-0.1  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>            | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|-------------------------------|-----------------|----------------|--------------------------|
| BLADE            | FC7663DB-4R        | PCP:BLADE UNIT, ALUMINUM      | 4               | Prop           |                          |
| BLADE            | FC7663DB-6Q        | PCP:BLADE UNIT, ALUM 4H1601-7 | 4               | Prop           |                          |
| SPINNER          | D-4515             | SPINNER ASSEMBLY              | 1               | Prop           |                          |
| COUNTERWEIGHT    | B-3202H-5          | PCP:COUNTERWEIGHT             | 1               | Blade          | Blade Component          |
| DE-ICER          | 4H1601-7           | DE-ICE BOOT                   | 1               | Blade          | Supersedes 7931-4E1601-7 |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20        | 6               | Prop           |                          |

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**IDS No.:** 432      **Rev.:** 1      **D**      **Date:** 02/11/2013

**Modifier:** O.S. WYATT

**Engine Model:** IO-720-B1BD

**Power:** 400 HP @ 2650 RPM

**Placard/Restr:** Avoid continuous ground operation between 2000 and 2300 RPM. Avoid flight above 28" Manifold Pressure between 2250 and 2550 RPM.

### **Notes:**

**Startlock Angle:** 18.5 +-1.5

**Feather/High Angle:** 80.0 +-1.0

**Cwt Angle:**

**Non-HPI Governor:**

# HARTZELL

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CESSNA

**Model:** 414(A)  
**Trade Name:**  
**Aircraft T.C./STC:** STC SA09971SC  
**Propeller Model:** PHC-C3YF-2UF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** FC7693DF  
 FC7693DFB  
**Prop Diameter:** 78

**IDS No.:** 1945      **Rev.:** 2      **IC Date:** 07/15/2015

**Modifier:** RAM AIRCRAFT  
**Engine Model:** TSIO-520-(J, N)(B)  
**Power:** 335 HP @ 2700 RPM  
**Placard/Restr:**

**Notes:** Engine Ratings: -J(B) & -N(B), 310HP; -N(B) with STC SE3714SW, 310HP; -NB with STC SE4327SW, 325HP; -NB with STC SE09261SC, 335HP; -NB with STC SE09104SC, 335HP

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** 13.0 +-0.1  
**Stud Protrusion** 1.450 +- .030

**Startlock Angle:** 18.0 +-1.5  
**Feather/High Angle:** 81.1 +-1.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type     | Item Number     | Description                  | Quantity | Qty Per | Comments                  |
|---------------|-----------------|------------------------------|----------|---------|---------------------------|
| PROPELLER     | C3F00260        | PHC-C3YF-2UF/FC7693DF/SM23   | 2        | A/C     |                           |
| PROPELLER     | C3F00260KD      | PHC-C3YF-2UF/FC7693DF/SM23   | 2        | A/C     |                           |
| PROPELLER     | C3F00270        | PHC-C3YF-2UF/FC7693DFB/SM23  | 2        | A/C     |                           |
| PROPELLER     | C3F00270KD      | PHC-C3YF-2UF/FC7693DFB/SM23  | 2        | A/C     |                           |
| BLADE         | FC7693DF        | PCP:BLADE UNIT, ALUM [1,1,1] | 3        | Prop    |                           |
| BLADE         | FC7693DFB       | PCP:BLADE UNIT, ALUMINUM     | 3        | Prop    |                           |
| SPINNER       | D-7267-2P       | SPINNER ASSEMBLY             | 1        | Prop    |                           |
| SPIN MTG KIT  | A-2476-23       | SPINNER - MTG KIT            | 1        | Prop    |                           |
| COUNTERWEIGHT | B-3202H-5       | PCP:COUNTERWEIGHT            | 1        | Blade   | Blade Component           |
| DE-ICER       | 4H1601-14       | DE-ICE BOOT                  | 1        | Blade   | Supersedes 7931-4E1601-14 |
| DE-ICE KIT PR | 7931-5E2748-1   | DE-ICE KIT (ONE PROP)        | 1        | Prop    |                           |
| MTG BOLT/STUD | A-2429-4        | STUD, MOUNTING, 1/2-20       | 6        | Prop    | Use w/E-7167-2 Hub Only   |
| MTG BOLT/STUD | A-2429-7        | STUD, MOUNTING, 1/2-20       | 6        | Prop    | Use w/E-7167-12 Hub Only  |
| OVERHAUL KIT  | PHC-C3YF-2UF*1  | O/H KIT W/O SLIMSERTS        | 1        | Prop    | For aftermarket use only  |
| OVERHAUL KIT  | PHC-C3YF-2UF-OH | O/H KIT                      | 1        | Prop    | For aftermarket use only  |

# HARTZELL

## APPLICATION GUIDE

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CESSNA

**Model:** 414A  
**Trade Name:**  
**Aircraft T.C./STC:** STC-SA4546SW  
**Propeller Model:** PHC-C3YF-2UF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** FC7663D-2Q  
 FC7663DB-2Q  
**Prop Diameter:** 76"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 14.0 +-0.1  
**Stud Protrusion** 1.450 +-0.030

**IDS No.:** 433      **Rev.:** 2      **IC Date:** 07/15/2015

**Modifier:** RAM AIRCRAFT CORP.  
**Engine Model:** TSIO-520-NB  
**Power:** 325 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** 19.5 +-1.5  
**Feather/High Angle:** 84.0 +-1.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>           | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>                        |
|------------------|--------------------|------------------------------|-----------------|----------------|--|
| PROPELLER        | C3F00190           | PHC-C3YF-2UF/FC7663DB-2Q/SM9 | 2               | A/C            |  |
| PROPELLER        | C3F00190KD         | PHC-C3YF-2UF/FC7663DB-2Q/SM9 | 0               |                |  |
| BLADE            | FC7663D-2Q         | PCP:BLADE UNIT, ALUMINUM     | 3               | Prop           |  |
| BLADE            | FC7663DB-2Q        | PCP:BLADE UNIT, ALUMINUM     | 3               | Prop           |  |
| SPINNER          | C-4558-2P          | SPINNER ASSEMBLY             | 1               | Prop           |  |
| SPIN MTG KIT     | A-2476-9           | SPINNER - MTG KIT            | 1               | Prop           |  |
| COUNTERWEIGHT    | B-3202H-5          | PCP:COUNTERWEIGHT            | 1               | Blade          | Blade Component                        |
| DE-ICER          | 4H1601-14          | DE-ICE BOOT                  | 1               | Blade          | Supersedes 4H1601-10 & 7931-4E1601-10. |
| DE-ICE KIT PR    | 7931-65-420-1      | DE-ICE KIT (ONE PROP)        | 1               | Prop           |  |
| MTG BOLT/STUD    | A-2429-4           | STUD, MOUNTING, 1/2-20       | 6               | Prop           | USE WITH E-7167-2 HUB ONLY             |
| MTG BOLT/STUD    | A-2429-7           | STUD, MOUNTING, 1/2-20       | 6               | Prop           | USE WITH E-7167-12 HUB ONLY            |
| OVERHAUL KIT     | PHC-C3YF-2UF*1     | O/H KIT W/O SLIMSERTS        | 1               | Prop           | For aftermarket use only               |
| OVERHAUL KIT     | PHC-C3YF-2UF-OH    | O/H KIT                      | 1               | Prop           | For aftermarket use only               |



# HARTZELL

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CESSNA

IDS No.: 435      Rev.: -      DM Date: 06/06/2006

**Model:** 421, 421A  
**Trade Name:** GOLDEN EAGLE  
**Aircraft T.C./STC:** STC-SA673CE  
**Propeller Model:** HC-B3WF-2  
**Propeller T.C.:** P2EA  
**Blade Model(s):** W9349N-3R  
**Prop Diameter:** 90.4" TO 88"

**Modifier:** HARTZELL PROPELLER  
**Engine Model:** GTSIO-520-D  
**Power:** 375 HP @ 2267 RPM  
**Placard/Restr:**  
**Notes:**

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 16.9 +-0.1

**Startlock Angle:** 21.5 +-1.5  
**Feather/High Angle:** 84.0 +-1.0  
**Cwt Angle:** Positive

**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>            | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|-------------------------------|-----------------|----------------|-----------------|
| BLADE            | W9349N-3R          | IDS Item                      | 3               | Prop           |                 |
| SPINNER          | 835-29             | SPINNER ASSEMBLY              | 1               | Prop           |                 |
| COUNTERWEIGHT    | 833-11             | IDS Item                      | 1               | Blade          |                 |
| MTG BOLT/STUD    | A-1328-1           | BOLT,MOUNTING,1/2-20,12 POINT | 6               | Prop           |                 |

# HARTZELL

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CESSNA

IDS No.: 437      Rev.: 1      D      Date: 01/07/2011

**Model:** 421B, 421C

**Modifier:** TURBINE CONVERSIONS, INT.

**Trade Name:**

**Engine Model:** LTP-101-600A

**Aircraft T.C./STC:** STC-SA4293WE

**Power:** 600 HP @ 1920 RPM

**Propeller Model:** HC-B3TN-3C

**Placard/Restr:**

**Propeller T.C.:** P15EA

**Notes:**

**Blade Model(s):** T10173-13Q  
T10173E-13Q  
T10173N-13Q  
T10173NE-13Q

**Prop Diameter:** 88"

**Prop Setup:**

**Ref. Radius:** 30

**Startlock Angle:** NA

**Reverse Angle:** -11.0 +-0.4

**Feather/High Angle:** 87.0 +-0.5

**Low Pitch Angle:** 20.2 +-0.1

**Cwt Angle:** Positive

**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u>               | <u>Item Number</u> | <u>Description</u>                | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|--------------------------------|--------------------|-----------------------------------|-----------------|----------------|-----------------|
| BLADE                          | T10173-13Q         | BLADE                             | 3               | Prop           |                 |
| BLADE                          | T10173E-13Q        | IDS*ITEM, BLADE                   | 3               | Prop           |                 |
| BLADE                          | T10173N-13Q        | PCP:BLADE UNIT, ALUMINUM          | 3               | Prop           |                 |
| BLADE                          | T10173NE-13Q       | IDS ITEM, BLADE                   | 3               | Prop           |                 |
| SPINNER                        | C-3065-6P          | SPINNER ASSEMBLY                  | 1               | Prop           |                 |
| COUNTERWEIGHT SLUG A-3039      |                    | SLUG, COUNTERWEIGHT               | 1               | Blade          |                 |
| COUNTERWEIGHT SLUG A-890-8     |                    | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          |                 |
| COUNTERWEIGHT SLUG B-3384-18H  |                    | BOLT, 1/4-28, HEX HEAD            | 2               | Blade          |                 |
| COUNTERWEIGHT SLUG B-3851-0432 |                    | WASHER                            | 2               | Blade          | Optional        |
| COUNTERWEIGHT SLUG B-3851-0463 |                    | WASHER                            | 2               | Blade          | Optional        |
| MTG BOLT/STUD                  | B-3339             | BOLT, MOUNTING, 9/16-18, 12 POINT | 8               | Prop           |                 |

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CESSNA

IDS No.: 1947      Rev.: 1      D      Date: 01/07/2011

**Model:** 421C  
**Trade Name:** GOLDEN EAGLE  
**Aircraft T.C./STC:** SA1361SO  
**Propeller Model:** HC-B3TN-3C  
**Propeller T.C.:** P15EA  
**Blade Model(s):** T10173NB-13Q  
**Prop Diameter:** 88

**Modifier:** RILEY  
**Engine Model:** PT6A-135  
**Power:** 475 HP @ 1900 RPM  
**Placard/Restr:**  
**Notes:**

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** -11.0 +-0.4  
**Low Pitch Angle:** 20.2 +-0.1

**Startlock Angle:** NA  
**Feather/High Angle:** 87.0 +-0.5  
**Cwt Angle:** POSITIVE

**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:** UNKNOWN

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u>               | <u>Item Number</u> | <u>Description</u>                | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|--------------------------------|--------------------|-----------------------------------|-----------------|----------------|--------------------------|
| PROPELLER                      | B3N10254           | HC-B3TN-3C/T10173NB-13Q           | 2               | A/C            |                          |
| BLADE                          | T10173NB-13Q       | PCP:BLADE UNIT, ALUMINUM          | 3               | Prop           |                          |
| COUNTERWEIGHT SLUG A-3039      |                    | SLUG, COUNTERWEIGHT               | 1               | Blade          |                          |
| COUNTERWEIGHT SLUG A-890-8     |                    | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          |                          |
| COUNTERWEIGHT SLUG B-3384-18H  |                    | BOLT, 1/4-28, HEX HEAD            | 2               | Blade          |                          |
| COUNTERWEIGHT SLUG B-3851-0432 |                    | WASHER                            | 2               | Blade          | Optional                 |
| COUNTERWEIGHT SLUG B-3851-0463 |                    | WASHER                            | 2               | Blade          |                          |
| DE-ICER                        | 4H1188-5           | DE-ICE BOOT                       | 1               | Blade          | Supersedes 7931-4E1188-5 |
| MTG BOLT/STUD                  | B-3339             | BOLT, MOUNTING, 9/16-18, 12 POINT | 8               | Prop           |                          |

# HARTZELL

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CESSNA

IDS No.: 1825 Rev.: - DM Date: 08/31/2006

**Model:** 421C  
**Trade Name:** GOLDEN EAGLE  
**Aircraft T.C./STC:** SA10185SC  
**Propeller Model:** HC-C3YN-2UF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** FC9587D-7  
 FC9587DB-7  
**Prop Diameter:** 90"

**Modifier:** RAM  
**Engine Model:** GTSIO-520-L or -N  
**Power:** 375 HP @ 2235 RPM  
**Placard/Restr:**

**Notes:** During assembly, install one A-2246-7 and one B-3834-0632 washer between hub unit and bulkhead.

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 15.8 +-0.2  
**Stud Protrusion** 1.580 +-0.030

**Startlock Angle:** 21.0 +-1.5  
**Feather/High Angle:** 86.2 +-1.0  
**Cwt Angle:**

### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:** WOODWARD

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>          | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>           |
|------------------|--------------------|-----------------------------|-----------------|----------------|---------------------------|
| PROPELLER        | C3N00201           | HC-C3YN-2UF/FC9587D-7/SM45  | 2               | A/C            |                           |
| PROPELLER        | C3N00201S          | HC-C3YN-2UF/FC9587D-7/SM45  | 2               | A/C            |                           |
| PROPELLER        | C3N00205           | HC-C3YN-2UF/FC9587DB-7/SM45 | 2               | A/C            |                           |
| BLADE            | FC9587D-7          | PCP:BLADE UNIT, ALUMINUM    | 3               | Prop           |                           |
| BLADE            | FC9587DB-7         | PCP:BLADE UNIT, ALUMINUM    | 3               | Prop           |                           |
| SPINNER          | D-3273-3P          | SPINNER ASSEMBLY            | 1               | Prop           |                           |
| SPIN MTG KIT     | A-2476-45          | SPINNER - MTG KIT           | 1               | Prop           |                           |
| COUNTERWEIGHT    | B-3202H-6          | PCP:COUNTERWEIGHT           | 1               | Blade          | Blade Component           |
| DE-ICER          | 4H1601-14          | DE-ICE BOOT                 | 1               | Blade          | Supersedes 7931-4E1601-14 |
| DE-ICE KIT PR    | 7931-5E2965-1      | DE-ICE KIT (ONE PROP)       | 1               | Prop           |                           |
| MTG BOLT/STUD    | A-3254             | STUD, MOUNTING, 9/16-18     | 8               | Prop           |                           |

# HARTZELL

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CESSNA

IDS No.: 438      Rev.: 2      D      Date: 01/07/2011

**Model:** 425  
**Trade Name:** CONQUEST I  
**Aircraft T.C./STC:** A7CE  
**Propeller Model:** HC-B3TN-3C  
**Propeller T.C.:** P15EA  
**Blade Model(s):** T10178B-8R  
    T10178NB-8R  
**Prop Diameter:** 93-3/8 to 91 in.

**Modifier:**  
**Engine Model:** PT6A-112  
**Power:** 450 HP @ 1900 RPM  
**Placard/Restr:**  
**Notes:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** -10.9 +/- 0.25  
**Low Pitch Angle:** 20.2 +/-0.1  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 86.7 +/-0.2  
**Cwt Angle:** Positive

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u>               | <u>Item Number</u> | <u>Description</u>                | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>               |
|--------------------------------|--------------------|-----------------------------------|-----------------|----------------|-------------------------------|
| PROPELLER                      | B3N10290           | HC-B3TN-3C/T10178NB-8R/DE-ICE     | 2               | A/C            |                               |
| BLADE                          | T10178B-8R         | BLADE (NO.6), 4E1188-6 BOOT       | 3               | Prop           |                               |
| BLADE                          | T10178NB-8R        | PCP: BLADE UNIT, AL 4H1188-6 BOOT | 3               | Prop           |                               |
| SPINNER                        | D-3434-13P         | SPINNER ASSEMBLY                  | 1               | Prop           |                               |
| COUNTERWEIGHT SLUG A-3039      |                    | SLUG, COUNTERWEIGHT               | 1               | Blade          |                               |
| COUNTERWEIGHT SLUG A-890-10    |                    | PCP:SLUG, COUNTERWEIGHT           | 2               | Blade          | Primary option (w/ A-890-6)   |
| COUNTERWEIGHT SLUG A-890-14    |                    | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          | Secondary option (w/ A-890-8) |
| COUNTERWEIGHT SLUG A-890-6     |                    | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          | Primary option (w/ A-890-10)  |
| COUNTERWEIGHT SLUG A-890-8     |                    | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          | Secondary opt'n (w/ A-890-14) |
| COUNTERWEIGHT SLUG B-3384-34H  |                    | BOLT, 1/4-28, HEX HEAD            | 2               | Blade          |                               |
| COUNTERWEIGHT SLUG B-3851-0432 |                    | WASHER                            | 2               | Blade          | Optional                      |
| COUNTERWEIGHT SLUG B-3851-0463 |                    | WASHER                            | 2               | Blade          |                               |
| DE-ICER                        | 4H1188-6           | DE-ICE BOOT                       | 1               | Blade          | Superaedes 7931-4E1188-6      |
| DE-ICE KIT PR                  | 7931-65-280-1      | DE-ICE KIT (ONE PROP)             | 1               | Prop           |                               |
| MTG BOLT/STUD                  | B-3339             | BOLT, MOUNTING, 9/16-18, 12 POINT | 8               | Prop           |                               |

# HARTZELL

## APPLICATION GUIDE

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CESSNA

IDS No.: 439 Rev.: 3 IC Date: 01/27/2020

**Model:** 441  
**Trade Name:** CONQUEST II  
**Aircraft T.C./STC:** A28CE  
**Propeller Model:** HC-B3TN-5(E,M)  
**Propeller T.C.:** P15EA  
**Blade Model(s):** T10178B-11  
 T10178NB-11  
**Prop Diameter:** 90.5" TO 88.5"

**Modifier:**  
**Engine Model:** TPE331-8-401S, -402S  
**Power:** 750 HP @ 2000 RPM  
**Placard/Restr:**

**Notes:** -5E Propeller is obsolete for new production

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** -8.0 +-0.2  
**Low Pitch Angle:** NA  
**Stud Protrusion**

**Startlock Angle:** 2.0 +-0.1  
**Feather/High Angle:** 87.4 +-0.5  
**Cwt Angle:** 4.5 +-2.5

### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| Item Type                      | Item Number   | Description                       | Quantity | Qty Per | Comments                 |
|--------------------------------|---------------|-----------------------------------|----------|---------|--------------------------|
| PROPELLER                      | B3N10790      | HC-B3TN-5M/T10178NB-11            | 2        | A/C     |                          |
| BLADE                          | T10178B-11    | BLADE, 4E1188-6 BOOT              | 3        | Prop    |                          |
| BLADE                          | T10178NB-11   | PCP:BLADE UNIT, ALUMINUM          | 3        | Prop    |                          |
| SPINNER                        | D-3434-11P    | SPINNER ASSEMBLY                  | 1        | Prop    |                          |
| COUNTERWEIGHT SLUG A-3039      |               | SLUG, COUNTERWEIGHT               | 1        | Blade   |                          |
| COUNTERWEIGHT SLUG A-890-10    |               | PCP:SLUG, COUNTERWEIGHT           | 2        | Blade   |                          |
| COUNTERWEIGHT SLUG A-890-6     |               | PCP:SLUG, COUNTERWEIGHT           | 1        | Blade   |                          |
| COUNTERWEIGHT SLUG B-3384-34H  |               | BOLT, 1/4-28, HEX HEAD            | 2        | Blade   |                          |
| COUNTERWEIGHT SLUG B-3851-0432 |               | WASHER                            | 2        | Blade   | Optional                 |
| COUNTERWEIGHT SLUG B-3851-0463 |               | WASHER                            | 2        | Blade   |                          |
| DE-ICER                        | 4H1188-6      | DE-ICE BOOT                       | 1        | Blade   | Supersedes 7931-4E1188-6 |
| DE-ICE KIT PR                  | 7931-65-155-1 | DE-ICE KIT (ONE PROP)             | 1        | Prop    |                          |
| MTG BOLT/STUD                  | B-3339        | BOLT, MOUNTING, 9/16-18, 12 POINT | 8        | Prop    |                          |
| OVERHAUL KIT                   | HC-B3TN-5M-OH | O/H KIT                           | 1        | Prop    | For aftermarket use only |

# HARTZELL

## APPLICATION GUIDE

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CESSNA

IDS No.: 442      Rev.: -      DM Date: 01/09/2004

**Model:** 441  
**Trade Name:** CONQUEST II  
**Aircraft T.C./STC:** STC-SA4026NM  
**Propeller Model:** HC-B3TN-5E  
**Propeller T.C.:** P15EA  
**Blade Model(s):** T10178-13Q  
T10178N-13Q  
**Prop Diameter:** 88.5"

**Modifier:** AERO AIR  
**Engine Model:** TPE331-8-401S,-402S,-403S,-404S  
**Power:** 750 HP @ 2000 RPM  
**Placard/Restr:**  
**Notes:**

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** -8.0 +-0.5  
**Low Pitch Angle:** 10.0 +-0.2 F.I.  
**Stud Protrusion**

**Startlock Angle:**  
**Feather/High Angle:** 87.4 +-0.5  
**Cwt Angle:** Unknown

### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>                | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|-----------------------------------|-----------------|----------------|-----------------|
| BLADE            | T10178-13Q         | BLADE                             | 3               | Prop           |                 |
| BLADE            | T10178N-13Q        | PCP:BLADE UNIT, ALUMINUM          | 3               | Prop           |                 |
| SPINNER          | D-3434-11P         | SPINNER ASSEMBLY                  | 1               | Prop           |                 |
| MTG BOLT/STUD    | B-3339             | BOLT, MOUNTING, 9/16-18, 12 POINT | 8               | Prop           |                 |

# HARTZELL

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CESSNA

IDS No.: 441      Rev.: 10      |      Date: 01/27/2020

**Model:** 441  
**Trade Name:** CONQUEST II  
**Aircraft T.C./STC:** STC-SA00058AT  
**Propeller Model:** HC-E4N-5A (Replaces Hartzell)  
**Propeller T.C.:** P10NE

**Modifier:** EXECUTIVE WINGS/HARTZELL  
**Engine Model:** TPE331-8-402S, -511S; TPE331-10N  
**Power:** 750 HP @ 2000 RPM  
**Placard/Restr:** Stabilized ground operation is prohibited below 1200 (60%) RPM. The minimum aircraft weight limit is 6300 lbs.

**Blade Model(s):** E8501  
 E8501K  
**Prop Diameter:** 86.0" TO 85.0"

**Notes:** The following items are consumed when performing mod of prop control unit on Garrett engine. Part numbers in ( ) are Honeywell items: 1 ea 103024 (865647-2) Gasket, 1 ea 103026 (856630-3) Gasket, 1 ea 103028 (895459-1) Retainer, 2 ea 103029 (S9418-017) Packing, 2 ea 103031 (895459-2) Retainer, 2 ea 103032 (S9413-012) Packing, 1 ea 103033 (S9418-522) Packing. Ref Garrett Maint Man.

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** -10.0 +-0.5  
**Low Pitch Angle:** NA  
**Stud Protrusion**

**Startlock Angle:** -1.4 +-0.2  
**Feather/High Angle:** 84.7 +-0.5  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type        | Item Number   | Description                    | Quantity | Qty Per | Comments   |
|------------------|---------------|--------------------------------|----------|---------|--|
| PROPELLER        | E4N00210      | HC-E4N-5A/E8501K               | 2        | A/C     |  |
| PROPELLER        | E4N00210S     | HC-E4N-5A/E8501K/D-5319-P      | 2        | A/C     | with PCU parts   |
| PROPELLER        | E4N00210SKD   | HC-E4N-5A/E8501K/D-5319-P      | 2        | A/C     | with PCU parts   |
| PROPELLER        | E4N00210SKDTP | E4N00210S/D-5319-P/DE-ICE/TWIN | 1        | A/C     |  |
| PROPELLER        | E4N00210STP   | E4N00210S/D-5319-P/DE-ICE/TWIN | 1        | A/C     |  |
| PROPELLER        | E4N00214      | HC-E4N-5A/E8501K               | 2        | A/C     | w/o PCU parts  |
| PROPELLER        | E4N00214S     | HC-E4N-5A/E8501K/D-5319-P      | 2        | A/C     | w/o PCU parts  |
| PROPELLER        | E4N00214SKD   | HC-E4N-5A/E8501K/D-5319-P      | 2        | A/C     | w/o PCU parts  |
| BLADE            | E8501         | PCP:BLADE UNIT, ALUM [1,1,1]   | 4        | Prop    |  |
| BLADE            | E8501K        | PCP:BLADE UNIT, ALUM [1,1,1]   | 4        | Prop    |  |
| SPINNER          | D-5319-P      | SPINNER ASSEMBLY               | 1        | Prop    |  |
| SP MT KIT DE-ICE | A-2070-7      | SCREW, 1/4-28, BUTTON HEAD     | 8        | Prop    |  |
| COUNTERWEIGHT    | C-472-1       | PCP:COUNTERWEIGHT              | 1        | Blade   |  |
| DE-ICER          | 4H2271-12     | DE-ICE BOOT                    | 1        | Blade   | Supersedes 4H2271-10   |
| DE-ICE KIT PR    | 106299        | DE-ICE KIT (ONE PROP)          | 1        | Prop    | Supersedes 7931-67-815-1   |
| DE-ICE KIT PR    | 7931-67-815-1 | DE-ICE KIT (ONE PROP)          | 1        | Prop    | Superseded by 106299   |
| DE-ICE KIT A/F   | 7931-67-815-2 | AIRFRAME DE-ICE KIT            | 1        | A/C     |  |
| MTG BOLT/STUD    | B-3339-1      | BOLT,MOUNTING,9/16-18,12 POINT | 8        | Prop    |  |
| MISC ACCES       | 103021        | PACKING                        | 3        | Prop    | Honeywell P/N S9143-013 (included in bag w/ prop)  |
| MISC ACCES       | 103022        | GASKET, FIBER                  | 1        | Prop    | Honeywell P/N 865664-5 (included in bag w/ prop)   |
| MISC ACCES       | 103023-471    | RIVET, 100 DEG FLUSH HEAD      | 8        | Prop    | AN123-471 (included in bag w/ prop) (extra qty's may be included in bag) Part of Honeywell Cam Assembly 865558-26. |
| MISC ACCES       | 103043        | O - RING                       | 1        | Prop    | Honeywell P/N S9143-032 (included in bag w/ prop)  |
| MISC ACCES       | 103045        | O - RING                       | 1        | Prop    | Honeywell P/N S9143-112 (included in bag w/ prop)  |
| MISC ACCES       | 103046        | PLUG, SEAL                     | 1        | Prop    | Honeywell P/N 3103328-1 (included in bag w/ prop)  |



|              |              |                     |   |      |   |
|--------------|--------------|---------------------|---|------|---|
| MISC ACCES   | 103047       | PROPELLER PITCH CAM | 1 | Prop | Honeywell P/N 3108356-1 (included in bag w/ prop) Part of Honeywell Cam Assembly 865558-26. |
| OVERHAUL KIT | HC-E4N-5A-OH | O/H KIT             | 1 | Prop | For aftermarket use only  |

# HARTZELL

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CESSNA

IDS No.: 1145      Rev.: 10      |      Date: 01/27/2020

**Model:** 441  
**Trade Name:** CONQUEST II  
**Aircraft T.C./STC:** STC-SA00058AT  
**Propeller Model:** HC-E4N-5B (Replaces McCauley)  
**Propeller T.C.:** P10NE

**Modifier:** EXECUTIVE WINGS/HARTZELL  
**Engine Model:** TPE331-8-403S, -511S, TPE331-10N  
**Power:** 635 HP @ 2000 RPM  
**Placard/Restr:** Stabilized ground operation is prohibited below 1200 (60%) RPM. Minimum aircraft weight limit is 6300 lbs.

**Blade Model(s):** E8501  
 E8501K  
**Prop Diameter:** 86.0" TO 85.0"

**Notes:** The following items are consumed when performing mod of prop control unit on Garrett engine. Part #s in ( ) are Honeywell items: 1 ea 103024 (865647-2) Gasket, 1 ea 103026 (856630-3) Gasket, 1 ea 103028 (895459-1) Retainer, 2 ea 103029 (S9418-017) Packing, 2 ea 103031 (895459-2) Retainer, 2 ea 103032 (S9413-012) Packing, 1 ea 103033 (S9418-522) Packing. Ref Garrett Maint man.

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** -10.0 +/-0.5  
**Low Pitch Angle:** NA  
**Stud Protrusion**

**Startlock Angle:** -1.4 +/-0.2  
**Feather/High Angle:** 84.7 +/-0.5  
**Cwt Angle:**

### Non-HPI Items:

Non-HPI Spinner:

Non-HPI Governor:

### Hartzell Approved Items:

| Item Type        | Item Number   | Description                    | Quantity | Qty Per | Comments  |
|------------------|---------------|--------------------------------|----------|---------|---|
| PROPELLER        | E4N00260S     | HC-E4N-5B/E8501K/D-5319-P      | 2        | A/C     |   |
| PROPELLER        | E4N00260SKD   | HC-E4N-5B/E8501K/D-5319-P      | 2        | A/C     |   |
| PROPELLER        | E4N00260SKDTP | E4N00260/D-5319-P/DE-ICE/TWIN  | 1        | A/C     |   |
| PROPELLER        | E4N00260STP   | E4N00260/D-5319-P/DE-ICE/TWIN  | 1        | A/C     |   |
| PROPELLER        | E4N00262S     | HC-E4N-5B/E8501K/NO PITCH KIT  | 2        | A/C     |   |
| PROPELLER        | E4N00262SKD   | HC-E4N-5B/E8501K/NO PITCH KIT  | 2        | A/C     |   |
| BLADE            | E8501         | PCP:BLADE UNIT, ALUM [1,1,1]   | 4        | Prop    |   |
| BLADE            | E8501K        | PCP:BLADE UNIT, ALUM [1,1,1]   | 4        | Prop    |   |
| SPINNER          | D-5319-P      | SPINNER ASSEMBLY               | 1        | Prop    |   |
| SP MT KIT DE-ICE | A-2070-7      | SCREW, 1/4-28, BUTTON HEAD     | 8        | Prop    | Included w/67-815-1 kit   |
| COUNTERWEIGHT    | C-472-1       | PCP:COUNTERWEIGHT              | 1        | Blade   |   |
| DE-ICER          | 102643        | DE-ICE BOOT                    | 1        | Blade   | Supersedes 4H2271-12  |
| DE-ICER          | 4H2271-12     | DE-ICE BOOT                    | 1        | Blade   | Supersedes 4H2271-10  |
| DE-ICE KIT PR    | 106299        | DE-ICE KIT (ONE PROP)          | 1        | Prop    | Supersedes 7931-67-815-1  |
| DE-ICE KIT PR    | 7931-67-815-1 | DE-ICE KIT (ONE PROP)          | 1        | Prop    | Superseded by 106299  |
| DE-ICE KIT A/F   | 7931-67-815-2 | AIRFRAME DE-ICE KIT            | 1        | A/C     |   |
| MTG BOLT/STUD    | B-3339-1      | BOLT,MOUNTING,9/16-18,12 POINT | 8        | Prop    |   |
| MISC ACCES       | 103021        | PACKING                        | 3        | Prop    | Included with E4N00260() prop part numbers  |
| MISC ACCES       | 103022        | GASKET, FIBER                  | 1        | Prop    | Included with E4N00260() prop part numbers  |
| MISC ACCES       | 103023-471    | RIVET, 100 DEG FLUSH HEAD      | 8        | Prop    | Included in a bag with every prop on this IDS. (extra qtys may be included in bag) Part of Honeywell Cam Assembly 865558-26 |
| MISC ACCES       | 103043        | O - RING                       | 1        | Prop    | Honeywell P/N S9143-032 (included in bag w/ prop)   |
| MISC ACCES       | 103045        | O - RING                       | 1        | Prop    | Honeywell P/N S9143-112 (included in bag w/ prop)   |
| MISC ACCES       | 103046        | PLUG, SEAL                     | 1        | Prop    | Honeywell P/N 3103328-1 (included in bag w/ prop)   |
| MISC ACCES       | 103047        | PROPELLER PITCH CAM            | 1        | Prop    | Honeywell P/N 3108356-1 (included in bag w/ prop) Part of Honeywell Cam Assembly 865558-26.                                 |

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|              |              |         |   |      |                          |
|--------------|--------------|---------|---|------|--------------------------|
| OVERHAUL KIT | HC-E4N-5B-OH | O/H KIT | 1 | Prop | For aftermarket use only |
|--------------|--------------|---------|---|------|--------------------------|

### CESSNA

IDS No.: 2514      Rev.: 2      IC      Date: 07/16/2015

**Model:** A185E AND A185F  
**Trade Name:** SUPER SKYLANE  
**Aircraft T.C./STC:** SA1443NM  
**Propeller Model:** HC-C3YF-1RF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** F8468A-6R  
F8468A-8R  
**Prop Diameter:** 80.0" TO 77.0"

**Modifier:** HARTZELL PROPELLER  
**Engine Model:** IO-520-D  
**Power:** 300 HP @ 2850 RPM  
**Placard/Restr:**  
**Notes:**

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 10.0 +-0.2  
**Stud Protrusion** 1.450 +-0.030

**Startlock Angle:** NA  
**Feather/High Angle:** 32.0 +-1.0  
**Cwt Angle:**

#### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:**

#### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>           | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|------------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | C3F00050           | HC-C3YF-1RF/F8468A-8R/SM30   | 1               | A/C            |                          |
| PROPELLER        | C3F00050KD         | HC-C3YF-1RF/F8468A-8R/SM30   | 1               | A/C            |                          |
| PROPELLER        | C3F00050SKDTP      | C3F00050/SM30/C-3575-P       | 1               | A/C            |                          |
| PROPELLER        | C3F00050STP        | C3F00050/SM30/C-3575-P       | 1               | A/C            |                          |
| BLADE            | F8468A-6R          | PCP:BLADE UNIT, ALUM [1,1,1] | 3               | Prop           |                          |
| BLADE            | F8468A-8R          | PCP:BLADE UNIT, ALUM [1,1,1] | 3               | Prop           |                          |
| SPINNER          | C-3575             | SPINNER ASSEMBLY             | 1               | Prop           |                          |
| SPINNER          | C-3575-P           | SPINNER ASSEMBLY             | 1               | Prop           |                          |
| SPIN MTG KIT     | A-2476-30          | SPINNER - MTG KIT            | 1               | Prop           |                          |
| MTG BOLT/STUD    | A-2429-4           | STUD, MOUNTING, 1/2-20       | 6               | Prop           |                          |
| OVERHAUL KIT     | HC-C3YF-1RF-OH     | O/H KIT                      | 1               | Prop           | For aftermarket use only |

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CESSNA

IDS No.: 2838 Rev.: - DM Date: 02/13/2009

Model: T210L  
Trade Name: TURBO CENTURION  
Aircraft T.C./STC: SA02319CH-D  
Propeller Model: HC-J3YF-1RF  
Propeller T.C.: P36EA  
Blade Model(s): F7691B+2  
Prop Diameter: 80-78"

Modifier: HARTZELL PROPELLER  
Engine Model: TSIO-520-C, -H  
Power: 285 HP @ 2700 RPM  
Placard/Restr:  
Notes:

### Prop Setup:

Ref. Radius: 30  
Reverse Angle: NA  
Low Pitch Angle: 15.3 +-0.2  
Stud Protrusion 1.450 +-0.030

Startlock Angle: NA  
Feather/High Angle: 32.0 +-1.0  
Cwt Angle:

### Non-HPI Items:

Non-HPI Spinner:

Non-HPI Governor:

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>           | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|------------------------------|-----------------|----------------|-----------------|
| PROPELLER        | J3F00201           | HC-J3YF-1RF/F7691B+2/SM44/DE | 1               | A/C            |                 |
| BLADE            | F7691B+2           | PCP:BLADE UNIT, ALUM [6,1,5] | 3               | Prop           |                 |
| SPINNER          | C-4582-1           | SPINNER ASSEMBLY             | 1               | A/C            |                 |
| SPINNER          | C-4582-1P          | SPINNER ASSEMBLY             | 1               | A/C            |                 |
| SPIN MTG KIT     | A-2476-44          | SPINNER - MTG KIT            | 1               | Prop           |                 |
| DE-ICER          | 102811             | DE-ICE BOOT                  | 1               | Blade          |                 |
| DE-ICE KIT PR    | 102998-1           | DE-ICE KIT (ONE PROP)        | 1               | Prop           |                 |
| DE-ICE KIT A/F   | 102998-2           | AIRFRAME DE-ICE KIT          | 1               | A/C            |                 |
| DE-ICE KIT A/F   | 102998-3           | AIRFRAME DE-ICE KIT          | 1               | A/C            |                 |
| MTG BOLT/STUD    | A-2429-4           | STUD, MOUNTING, 1/2-20       | 6               | Prop           |                 |

# HARTZELL

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CESSNA

IDS No.: 2512      Rev.: 3      IC      Date: 07/16/2015

**Model:** T207  
**Trade Name:** SKYWAGON  
**Aircraft T.C./STC:** SA696AL  
**Propeller Model:** PHC-C3YF-1RF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** F8468A-6R  
**Prop Diameter:** 80.0" TO 78.0"

**Modifier:** HARTZELL PROPELLER  
**Engine Model:** TSIO-520-G  
**Power:** 300 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 11.7 +-0.1  
**Stud Protrusion** 1.450 +-0.030

**Startlock Angle:** NA  
**Feather/High Angle:** 31.0 +-1.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>           | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>                            |
|------------------|--------------------|------------------------------|-----------------|----------------|--|
| PROPELLER        | C3F00139           | PHC-C3YF-1RF/F8468A-6R/SM30  | 1               | A/C            |  |
| PROPELLER        | C3F00139KD         | PHC-C3YF-1RF/F8468A-6R/SM30  | 1               | A/C            |  |
| PROPELLER        | C3F00139SKDTP      | C3F00139/SM30/A-2295-1P      | 1               | A/C            |  |
| PROPELLER        | C3F00139STP        | C3F00139/SM30/A-2295-1P      | 1               | A/C            |  |
| BLADE            | F8468A-6R          | PCP:BLADE UNIT, ALUM [1,1,1] | 3               | Prop           |  |
| SPINNER          | A-2295-1           | SPINNER ASSEMBLY             | 1               | Prop           |  |
| SPINNER          | A-2295-1P          | SPINNER ASSEMBLY             | 1               | Prop           |  |
| SPIN MTG KIT     | A-2476-30          | SPINNER - MTG KIT            | 1               | Prop           |  |
| MTG BOLT/STUD    | A-2429-4           | STUD, MOUNTING, 1/2-20       | 6               | Prop           | Use w/E-7154-2R Hub Only                   |
| MTG BOLT/STUD    | A-2429-7           | STUD, MOUNTING, 1/2-20       | 6               | Prop           | Use with E-7154-12R & E-7154-42R hubs only |
| OVERHAUL KIT     | PHC-C3YF-1RF*1     | O/H KIT W/O SLIMSERTS        | 1               | Prop           | For aftermarket use only                   |
| OVERHAUL KIT     | PHC-C3YF-1RF-OH    | O/H KIT                      | 1               | Prop           | For aftermarket use only                   |

# HARTZELL

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CESSNA

**Model:** 206, P206(A), U206(A-G), TP206A, TU206(A-F)

**Trade Name:** Super Skylane

**Aircraft T.C./STC:** STC SA02752CH-D

**Propeller Model:** HC-C3YF-1RF

**Propeller T.C.:** P25EA

**Blade Model(s):** F8468A-2R\*1

F8468A-4R\*1

F8468AR\*1

**Prop Diameter:** F8468AR:86"-85"/ 68A-

**Prop Setup:** 2R:84"to78"/ 68A-4R:82"to78"

**Ref. Radius:** 30

**Reverse Angle:**

**Low Pitch Angle:** 11.2 +-0.2

**Stud Protrusion** 1.450 +-0.030

**IDS No.:** 2747 **Rev.:** 2 **IC Date:** 07/16/2015

**Modifier:** HARTZELL PROPELLER

**Engine Model:** IO-520-(A, F), TSIO-520-C

**Power:** 285 HP @ 2700 RPM

**Placard/Restr:** For propellers with 86"-85" diameters - Continuous operation is prohibited above 26" manifold pressure between 2250-2450 RPM.

**Notes:**

**Startlock Angle:**

**Feather/High Angle:** 30.0 +-1.0

**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type     | Item Number    | Description                    | Quantity | Qty Per | Comments                 |
|---------------|----------------|--------------------------------|----------|---------|--------------------------|
| PROPELLER     | C3F00042       | HC-C3YF-1RF/F8468A-2R[*1]/SM30 | 0        |         |                          |
| PROPELLER     | C3F00042KD     | HC-C3YF-1RF/F8468A-2R[*1]/SM30 | 0        |         |                          |
| PROPELLER     | C3F00043       | HC-C3YF-1RF/F8468AR[*1]/SM30   | 0        |         |                          |
| PROPELLER     | C3F00043KD     | HC-C3YF-1RF/F8468AR[*1]/SM30   | 0        |         |                          |
| PROPELLER     | C3F00046       | HC-C3YF-1RF/F8468A-4R[*1]/SM30 | 1        | A/C     |                          |
| PROPELLER     | C3F00046KD     | HC-C3YF-1RF/F8468A-4R[*1]/SM30 | 1        | A/C     |                          |
| BLADE         | F8468A-2R*1    | PCP:BLADE UNIT, ALUM [6,1,1]   | 3        | Prop    |                          |
| BLADE         | F8468A-4R*1    | PCP:BLADE UNIT, ALUM [6,1,1]   | 3        | Prop    |                          |
| BLADE         | F8468AR*1      | PCP:BLADE UNIT, ALUM [3,1,1]   | 3        | Prop    |                          |
| SPINNER       | A-2295-1       | SPINNER ASSEMBLY               | 1        | A/C     |                          |
| SPINNER       | A-2295-1P      | SPINNER ASSEMBLY               | 1        | A/C     |                          |
| SPIN MTG KIT  | A-2476-30      | SPINNER - MTG KIT              | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2429-4       | STUD, MOUNTING, 1/2-20         | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-C3YF-1RF-OH | O/H KIT                        | 1        | Prop    | For aftermarket use only |

# HARTZELL

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CESSNA

IDS No.: 2900 Rev.: 1 IC Date: 07/16/2015

**Model:** 206, U206U206A, TU206A-TU206F s/n  
U206)2199, P206A, and TP206A (some)

**Modifier:** Vitatoe Aviation LLC

**Trade Name:** Super Skywagon, Stationair, Turbo  
Stationair

**Engine Model:** IO-520-A, TSIO-520-C

**Aircraft T.C./STC:** SA02735CH

**Power:** 285 HP @ 2700 RPM

**Propeller Model:** HC-C3YF-1RF

**Placard/Restr:**

**Propeller T.C.:** P25EA

**Notes:**

**Blade Model(s):** F7693DF+2\*1

**Prop Diameter:** 80" - 78"

**Prop Setup:**

**Ref. Radius:** 30

**Startlock Angle:**

**Reverse Angle:**

**Feather/High Angle:** 32.0 + - 1.0

**Low Pitch Angle:** 12.1 + - 0.2

**Cwt Angle:**

**Stud Protrusion:** 1.450 + - .030

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>             | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|--------------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | C3F06100           | HC-C3YF-1RF/F7693DF+2*[1]/SM30 | 1               | A/C            |                          |
| PROPELLER        | C3F06100KD         | HC-C3YF-1RF/F7693DF+2*[1]/SM30 | 1               | A/C            |                          |
| BLADE            | F7693DF+2*1        | PCP:BLADE UNIT, ALUM [6,16,11] | 3               | Prop           |                          |
| SPINNER          | A-2295-1           | SPINNER ASSEMBLY               | 1               | Prop           |                          |
| SPINNER          | A-2295-1P          | SPINNER ASSEMBLY               | 1               | Prop           |                          |
| SPIN MTG KIT     | A-2476-30          | SPINNER - MTG KIT              | 1               | Prop           |                          |
| MTG BOLT/STUD    | A-2429-4           | STUD, MOUNTING, 1/2-20         | 6               | Prop           |                          |
| OVERHAUL KIT     | HC-C3YF-1RF-OH     | O/H KIT                        | 1               | Prop           | For aftermarket use only |

# HARTZELL

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CESSNA

IDS No.: 2978 Rev.: 2 IC Date: 07/16/2015

**Model:** 206, U206U206A, TU206A-TU206F s/n  
U206)2199, P206A, and TP206A (some)

**Modifier:** Hartzell Propeller

**Trade Name:** Super Skywagon, Stationair, Turbo  
Stationair

**Engine Model:** IO-520-A, TSIO-520-C

**Aircraft T.C./STC:** SA02821CH

**Propeller Model:** HC-C3YF-1RF

**Power:** 285 HP @ 2700 RPM

**Propeller T.C.:** P25EA

**Placard/Restr:**

**Blade Model(s):** F7693DF+2\*1

**Notes:**

**Prop Diameter:** 80" - 78"

**Prop Setup:**

**Ref. Radius:** 30

**Startlock Angle:**

**Reverse Angle:**

**Feather/High Angle:** 32.0 + - 1.0

**Low Pitch Angle:** 12.1 + - 0.2

**Cwt Angle:**

**Stud Protrusion:** 1.450 + - .030

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>             | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|--------------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | C3F06100           | HC-C3YF-1RF/F7693DF+2*[1]/SM30 | 1               | A/C            |                          |
| PROPELLER        | C3F06100KD         | HC-C3YF-1RF/F7693DF+2*[1]/SM30 | 1               | A/C            |                          |
| BLADE            | F7693DF+2*1        | PCP:BLADE UNIT, ALUM [6,16,11] | 3               | Prop           |                          |
| SPINNER          | A-2295-1           | SPINNER ASSEMBLY               | 1               | Prop           |                          |
| SPINNER          | A-2295-1P          | SPINNER ASSEMBLY               | 1               | Prop           |                          |
| SPIN MTG KIT     | A-2476-30          | SPINNER - MTG KIT              | 1               | Prop           |                          |
| MTG BOLT/STUD    | A-2429-4           | STUD, MOUNTING, 1/2-20         | 6               | Prop           |                          |
| OVERHAUL KIT     | HC-C3YF-1RF-OH     | O/H KIT                        | 1               | Prop           | For aftermarket use only |



# HARTZELL

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CESSNA

IDS No.: 2560 Rev.: 3 IC Date: 07/16/2015

Model: U206(B-G)  
 Trade Name: SUPER SKYLANE  
 Aircraft T.C./STC: STC-SA685AL  
 Propeller Model: PHC-C3YF-1RF  
 Propeller T.C.: P25EA  
 Blade Model(s): F8468A-6R  
 F8468A-8R  
 Prop Diameter: 80.0" TO 77.0"

Modifier: HARTZELL PROPELLER  
 Engine Model: IO-520-F  
 Power: 300 HP @ 2850 RPM  
 Placard/Restr:  
 Notes: Eligible for U206G up to S/N 4074; Install spinner mounting kit per instructions in STC

**Prop Setup:**

Ref. Radius: 30  
 Reverse Angle: NA  
 Low Pitch Angle: 10.0 +-0.2  
 Stud Protrusion 1.450 +-0.030

Startlock Angle: NA  
 Feather/High Angle: 32.0 +-1.0  
 Cwt Angle:

**Non-HPI Items:**

Non-HPI Spinner:

Non-HPI Governor:

**Hartzell Approved Items:**

| Item Type     | Item Number     | Description                  | Quantity | Qty Per | Comments                                   |
|---------------|-----------------|------------------------------|----------|---------|--|
| PROPELLER     | C3F00119        | PHC-C3YF-1RF/F8468A-6R/SM30  | 1        | A/C     |  |
| PROPELLER     | C3F00119KD      | PHC-C3YF-1RF/F8468A-6R/SM30  | 1        | A/C     |  |
| PROPELLER     | C3F00119SKDTP*1 | C3F00119/SM30/A-2295-1P      | 1        | A/C     |  |
| PROPELLER     | C3F00119STP*1   | C3F00119/SM30/A-2295-1P      | 1        | A/C     |  |
| PROPELLER     | C3F00131SKDTP   | C3F00131/SM30/A-2295-1P      | 1        | A/C     |  |
| PROPELLER     | C3F00131STP     | C3F00131/SM30/A-2295-1P      | 1        | A/C     |  |
| BLADE         | F8468A-6R       | PCP:BLADE UNIT, ALUM [1,1,1] | 3        | Prop    |  |
| BLADE         | F8468A-8R       | PCP:BLADE UNIT, ALUM [1,1,1] | 3        | Prop    |  |
| SPINNER       | A-2295-1        | SPINNER ASSEMBLY             | 1        | Prop    |  |
| SPINNER       | A-2295-1P       | SPINNER ASSEMBLY             | 1        | Prop    |  |
| SPIN MTG KIT  | A-2476-30       | SPINNER - MTG KIT            | 1        | Prop    |  |
| MTG BOLT/STUD | A-2429-4        | STUD, MOUNTING, 1/2-20       | 6        | Prop    | Use w/E-7154-2R Hub Only                   |
| MTG BOLT/STUD | A-2429-7        | STUD, MOUNTING, 1/2-20       | 6        | Prop    | Use with E-7154-12R & E-7154-42R hubs only |
| OVERHAUL KIT  | PHC-C3YF-1RF*1  | O/H KIT W/O SLIMSERTS        | 1        | Prop    | For aftermarket use only                   |
| OVERHAUL KIT  | PHC-C3YF-1RF-OH | O/H KIT                      | 1        | Prop    | For aftermarket use only                   |

# HARTZELL

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### CHAMPION

Model: see BELLANCA

Trade Name:  
Aircraft T.C./STC:  
Propeller Model:

Propeller T.C.:  
Blade Model(s):  
Prop Diameter:

#### Prop Setup:

Ref. Radius:  
Reverse Angle:  
Low Pitch Angle:  
Stud Protrusion

#### Non-HPI Items:

Non-HPI Spinner:

#### Hartzell Approved Items:

IDS No.: 443      Rev.: -      DM Date: 10/01/1992

Modifier:  
Engine Model:  
Power:      HP @      RPM  
Placard/Restr:  
Notes:

Startlock Angle:  
Feather/High Angle:  
Cwt Angle:

Non-HPI Governor:

### CHRISTEN

Model: see AVIAT

Trade Name:  
Aircraft T.C./STC:  
Propeller Model:

Propeller T.C.:  
Blade Model(s):  
Prop Diameter:

#### Prop Setup:

Ref. Radius:  
Reverse Angle:  
Low Pitch Angle:  
Stud Protrusion

#### Non-HPI Items:

Non-HPI Spinner:

#### Hartzell Approved Items:

IDS No.: 444      Rev.: -      DM Date: 10/01/1992

Modifier:  
Engine Model:  
Power:      HP @      RPM  
Placard/Restr:  
Notes:

Startlock Angle:  
Feather/High Angle:  
Cwt Angle:

Non-HPI Governor:

Cirrus

IDS No.: 3771      Rev.: 1      IC      Date: 08/03/2020

**Model:** SR22  
**Trade Name:** SR22  
**Aircraft T.C./STC:** SA04468CH  
**Propeller Model:** 4C1-F650A1  
**Propeller T.C.:** P00019CH  
**Blade Model(s):** 76C04-0.6  
                           76C04-0.6\*1  
                           76C04B-0.6  
                           76C04B-0.6\*1

**Modifier:** Hartzell Propeller, Inc  
**Engine Model:** IO-550-N  
**Power:** 310 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Prop Diameter:** 78"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** N/A  
**Low Pitch Angle:** 11.6 +/- 0.2  
**Stud Protrusion** 1.450 +/- .030

**Startlock Angle:** N/A  
**Feather/High Angle:** 37.0 +/- 1.0  
**Cwt Angle:** N/A

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type     | Item Number  | Description                    | Quantity | Qty Per | Comments |
|---------------|--------------|--------------------------------|----------|---------|----------|
| PROPELLER     | 4CF00150     | 4C1-F650A1/76C04-0.6/BULK      | 1        | A/C     |          |
| PROPELLER     | 4CF00150AFM  | 4C1-F650A1/76C04-0.6/BULK      | 1        | A/C     |          |
| PROPELLER     | 4CF00150KD   | 4C1-F650A1/76C04-0.6/BULK      | 1        | A/C     |          |
| PROPELLER     | 4CF00152     | 4C1-F650A1/76C04-0.6*1/BULK    | 1        | A/C     |          |
| PROPELLER     | 4CF00152AFM  | 4C1-F650A1/76C04-0.6*1/BULK    | 1        | A/C     |          |
| PROPELLER     | 4CF00152KD   | 4C1-F650A1/76C04-0.6*1/BULK    | 1        | A/C     |          |
| PROPELLER     | 4CF00155     | 4C1-F650A1/76C04B-0.6/BULK     | 1        | A/C     |          |
| PROPELLER     | 4CF00155AFM  | 4C1-F650A1/76C04B-0.6/BULK     | 1        | A/C     |          |
| PROPELLER     | 4CF00155KD   | 4C1-F650A1/76C04B-0.6/BULK     | 1        | A/C     |          |
| PROPELLER     | 4CF00157     | 4C1-F650A1/76C04B-0.6*1/BULK   | 1        | A/C     |          |
| PROPELLER     | 4CF00157AFM  | 4C1-F650A1/76C04B-0.6*1/BULK   | 1        | A/C     |          |
| PROPELLER     | 4CF00157KD   | 4C1-F650A1/76C04B-0.6*1/BULK   | 1        | A/C     |          |
| BLADE         | 76C04-0.6    | PCP: BLADE ASSEMBLY, COMPOSITE | 4        | Prop    |          |
| BLADE         | 76C04-0.6*1  | PCP:BLADE ASSY, COMP [3,24,19] | 4        | Prop    |          |
| BLADE         | 76C04B-0.6   | PCP:BLADE ASSEMBLY, COMPOSITE  | 4        | Prop    |          |
| BLADE         | 76C04B-0.6*1 | PCP:BLADE ASSY, COMP [3,24,19] | 4        | Prop    |          |
| SPINNER       | 107593       | SPINNER ASSEMBLY               | 1        | Prop    |          |
| SPINNER       | 107593P      | SPINNER ASSEMBLY               | 1        | Prop    |          |
| GOVERNOR      | S-1-90       | GOVERNOR ASSEMBLY, S-1-90      | 1        | A/C     |          |
| SPIN MTG KIT  | A-2476-70    | SPINNER - MTG KIT              | 1        | Prop    |          |
| DE-ICER       | C-2131-15    | BOOT, ANTI-ICING               | 1        | Blade   |          |
| DE-ICE KIT PR | 107638       | ANTI-ICE KIT (ONE PROP)        | 1        | Prop    |          |
| MTG BOLT/STUD | A-2429-4     | STUD, MOUNTING, 1/2-20         | 6        | Prop    |          |

# HARTZELL

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Cirrus

IDS No.: 3717      Rev.: 4      IC      Date: 03/12/2020

**Model:** SR22T  
**Trade Name:** SR22T  
**Aircraft T.C./STC:** SA04440CH  
**Propeller Model:** 4C1-F650A1  
**Propeller T.C.:** P00019CH  
**Blade Model(s):** 76C04-0.6  
                           76C04-0.6\*1  
                           76C04B-0.6  
                           76C04B-0.6\*1

**Modifier:** Hartzell Propeller, Inc  
**Engine Model:** TSIO-550-K  
**Power:** 315 HP @ 2500 RPM  
**Placard/Restr:** None

**Notes:**

**Prop Diameter:** 78"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** 14.7 +- 0.2  
**Stud Protrusion** 1.450 +- .030

**Startlock Angle:**  
**Feather/High Angle:** 39.0 +- 1.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>             | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>  |
|------------------|--------------------|--------------------------------|-----------------|----------------|--|
| PROPELLER        | 4CF00140           | 4C1-F650A1/76C04-0.6/BULK      | 1               | A/C            | On Cirrus Prop carts, blades w/ white tip                  |
| PROPELLER        | 4CF00140AFM        | 4C1-F650A1/76C04-0.6/BULK      | 1               | A/C            | Pkg fully assembled, blades w/ white tip                   |
| PROPELLER        | 4CF00140KD         | 4C1-F650A1/76C04-0.6/BULK      | 1               | A/C            | KD pkg like 4-way Turbine, blades w/ white tip             |
| PROPELLER        | 4CF00142           | 4C1-F650A1/76C04-0.6*1/BULK    | 1               | A/C            | On Cirrus Prop carts, blades w/ silver tip                 |
| PROPELLER        | 4CF00142AFM        | 4C1-F650A1/76C04-0.6*1/BULK    | 1               | A/C            | Pkg fully assembled, blades with silver tip                |
| PROPELLER        | 4CF00142KD         | 4C1-F650A1/76C04-0.6*1/BULK    | 1               | A/C            | KD pkg like 4-way Turbine, blades w/ silver tip            |
| PROPELLER        | 4CF00145           | 4C1-F650A1/76C04B-0.6/BULK     | 1               | A/C            | On Cirrus Prop carts, anti-iced blades w/ white tip        |
| PROPELLER        | 4CF00145AFM        | 4C1-F650A1/76C04B-0.6/BULK     | 1               | A/C            | Pkg fully assembled, blades w/ white tip                   |
| PROPELLER        | 4CF00145KD         | 4C1-F650A1/76C04B-0.6/BULK     | 1               | A/C            | KD pkg like 4-way Turbine, blades w/ white tip             |
| PROPELLER        | 4CF00147           | 4C1-F650A1/76C04B-0.6*1/BULK   | 1               | A/C            | On Cirrus Prop carts, anti-iced, blades w/ silver tip      |
| PROPELLER        | 4CF00147AFM        | 4C1-F650A1/76C04B-0.6*1/BULK   | 1               | A/C            | Pkg fully assembled, anti-iced, blades with silver tip     |
| PROPELLER        | 4CF00147KD         | 4C1-F650A1/76C04B-0.6*1/BULK   | 1               | A/C            | KD pkg like 4-way Turbine, anti-iced, blades w/ silver tip |
| BLADE            | 76C04-0.6          | PCP: BLADE ASSEMBLY, COMPOSITE | 4               | Prop           |  |
| BLADE            | 76C04-0.6*1        | PCP:BLADE ASSY, COMP [3,24,19] | 4               | Prop           |  |
| BLADE            | 76C04B-0.6         | PCP:BLADE ASSEMBLY, COMPOSITE  | 4               | Prop           |  |
| BLADE            | 76C04B-0.6*1       | PCP:BLADE ASSY, COMP [3,24,19] | 4               | Prop           |  |
| SPINNER          | 107593             | SPINNER ASSEMBLY               | 1               | Prop           |  |
| SPINNER          | 107593P            | SPINNER ASSEMBLY               | 1               | Prop           |  |
| GOVERNOR         | S-1-44F            | GOVERNOR ASSEMBLY, S-1-( )F    | 1               | A/C            |  |
| SPIN MTG KIT     | A-2476-70          | SPINNER - MTG KIT              | 1               | Prop           |  |
| DE-ICER          | C-2131-15          | BOOT, ANTI-ICING               | 1               | Blade          |  |
| DE-ICE KIT PR    | 107638             | ANTI-ICE KIT (ONE PROP)        | 1               | Prop           |  |
| MTG BOLT/STUD    | A-2429-4           | STUD, MOUNTING, 1/2-20         | 6               | Prop           |  |

# HARTZELL

## APPLICATION GUIDE

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CIRRUS DESIGN CORP.

IDS No.: 3479      Rev.: 6      IC      Date: 03/05/2018

**Model:** SR20

**Trade Name:**

**Aircraft T.C./STC:** A00009CH

**Propeller Model:** 3C1-R919A1

**Propeller T.C.:** P00016CH

**Blade Model(s):** 76C03-2  
76C03-2\*2

**Prop Diameter:** 74"

### Prop Setup:

**Ref. Radius:** 30"

**Reverse Angle:**

**Low Pitch Angle:** 11.9 +/- 0.2

**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**Modifier:**

**Engine Model:** IO-390-C3B6

**Power:** 215 HP @ 2700 RPM

**Placard/Restr:** None.

**Notes:**

**Startlock Angle:**

**Feather/High Angle:** 30.0 +/- 1.0

**Cwt Angle:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>                | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|-----------------------------------|-----------------|----------------|-----------------|
| PROPELLER        | 3CR00001           | 3C1-R919A1/76C03-2/SM7            | 1               | A/C            |                 |
| PROPELLER        | 3CR00001AFM        | 3C1-R919A1/76C03-2/SM7            | 1               | A/C            |                 |
| PROPELLER        | 3CR00004           | 3C1-R919A1/76C03-2*2/SM7          | 1               | A/C            |                 |
| BLADE            | 76C03-2            | PCP:BLADE ASSEMBLY, COMPOSITE     | 3               | Prop           |                 |
| BLADE            | 76C03-2*2          | PCP:BLADE ASSEMBLY, COMP [3,24,1] | 3               | Prop           |                 |
| SPINNER          | 105890             | SPINNER ASSEMBLY                  | 1               | Prop           |                 |
| SPINNER          | 105890P            | SPINNER ASSEMBLY                  | 1               | Prop           |                 |
| GOVERNOR         | S-1-21             | GOVERNOR ASSEMBLY, S-1-21         | 1               | Prop           |                 |
| SPIN MTG KIT     | A-2476-7           | SPINNER - MTG KIT                 | 1               | Prop           |                 |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20            | 6               | Prop           |                 |

# HARTZELL

## APPLICATION GUIDE 159

CIRRUS DESIGN CORP.

IDS No.: 3483      Rev.: 5      IC      Date: 03/10/2017

**Model:** SR20  
**Trade Name:** SR20L  
**Aircraft T.C./STC:** A00009CH  
**Propeller Model:** HC-E3YR-1RF  
**Propeller T.C.:** P33EA  
**Blade Model(s):** F7392S-1  
                           F7392S-1\*1  
                           F7392S-1\*2  
**Prop Diameter:** 74"-73"

**Modifier:**  
**Engine Model:** IO-390-C3B6  
**Power:** 215 HP @ 2700 RPM  
**Placard/Restr:** None

**Notes:** The following prop p/n's do not get standard packaging, instead they are shipped on the customer's cart: E3R00023

**Prop Setup:**

**Ref. Radius:** 30"  
**Reverse Angle:**  
**Low Pitch Angle:** 13.4 +/- 0.2  
**Stud Protrusion**

**Startlock Angle:**  
**Feather/High Angle:** 30.0 +/- 1.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>            | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|-------------------------------|-----------------|----------------|-----------------|
| PROPELLER        | E3R00023           | HC-E3YR-1RF/F7392S-1*1/SM7    | 1               | A/C            |                 |
| PROPELLER        | E3R00023AFM        | HC-E3YR-1RF/F7392S-1*1/SM7    | 1               | A/C            |                 |
| PROPELLER        | E3R00024           | HC-E3YR-1RF/F7392S-1/SM7      | 1               | A/C            |                 |
| PROPELLER        | E3R00026           | HC-E3YR-1RF/F7392S-1*2/SM7    | 1               | A/C            |                 |
| BLADE            | F7392S-1           | PCP:BLADE UNIT, ALUM [1,1,1]  | 3               | Prop           |                 |
| BLADE            | F7392S-1*1         | PCP:BLADE UNIT, ALUM [3,1,1]  | 3               | Prop           |                 |
| BLADE            | F7392S-1*2         | PCP:BLADE UNIT, ALUM [3,24,1] | 3               | Prop           |                 |
| SPINNER          | A-2295-1           | SPINNER ASSEMBLY              | 1               | A/C            |                 |
| SPINNER          | A-2295-1P          | SPINNER ASSEMBLY              | 1               | A/C            |                 |
| GOVERNOR         | S-1-21             | GOVERNOR ASSEMBLY, S-1-21     | 1               | A/C            |                 |
| SPIN MTG KIT     | A-2476-7           | SPINNER - MTG KIT             | 1               | Prop           |                 |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20        | 6               | Prop           |                 |

# HARTZELL

## APPLICATION GUIDE

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CIRRUS DESIGN CORP.

IDS No.: 1486 Rev.: - DM Date: 08/18/2004

**Model:** SR20, SRV  
**Trade Name:** CIRRUS  
**Aircraft T.C./STC:** A00009CH  
**Propeller Model:** BHC-J2YF-1BF  
**Propeller T.C.:** P37EA  
  
**Blade Model(s):** F7694  
F7694\*2  
**Prop Diameter:** 76" TO 73"

**Modifier:**  
**Engine Model:** IO-360-ES  
**Power:** 200 HP @ 2700 RPM  
**Placard/Restr:** "Do not operate above 24 inches of manifold pressure between 1900 and 2200 RPM"  
**Notes:** SRV model is the same as the SR20, but without a nosewheel fairing and equipped for VFR-only operation. Marketing model only.

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 14.6 +-0.1  
**Stud Protrusion** 1.210 +-0.015

**Startlock Angle:** NA  
**Feather/High Angle:** 35.0 +-1.0  
**Cwt Angle:**

### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>           | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>    |
|------------------|--------------------|------------------------------|-----------------|----------------|--------------------|
| PROPELLER        | J2F00014           | BHC-J2YF-1BF/F7694/SM19      | 1               | A/C            |                    |
| PROPELLER        | J2F00800           | BHC-J2YF-1BF/F7694[*2]/SM19  | 1               | A/C            |                    |
| BLADE            | F7694              | PCP:BLADE UNIT, ALUM [1,1,1] | 2               | Prop           |                    |
| BLADE            | F7694*2            | PCP:BLADE UNIT, ALUM [3,1,1] | 2               | Prop           |                    |
| SPINNER          | A-2295-P           | SPINNER ASSEMBLY             | 1               | Prop           | Standard packaging |
| SPIN MTG KIT     | A-2476-19          | SPINNER - MTG KIT            | 1               | Prop           |                    |
| MTG BOLT/STUD    | A-2429-5           | STUD, MOUNTING, 1/2-20       | 6               | Prop           |                    |

# HARTZELL

## APPLICATION GUIDE

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CIRRUS DESIGN CORP.

IDS No.: 1419      Rev.: 1      IC      Date: 07/16/2015

**Model:** SR20, SRV  
**Trade Name:** CIRRUS  
**Aircraft T.C./STC:** A00009CH  
**Propeller Model:** PHC-J3YF-1MF  
**Propeller T.C.:** P36EA  
**Blade Model(s):** F7392-1  
**Prop Diameter:** 74" TO 72"

**Modifier:**  
**Engine Model:** IO-360-ES  
**Power:** 200 HP @ 2700 RPM  
**Placard/Restr:**

**Notes:** SRV model is the same as the SR20, but without a nosewheel fairing and equipped for VFR-only operation. Marketing model only.

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 14.1 +-0.1  
**Stud Protrusion** 1.210 +-0.015

**Startlock Angle:** NA  
**Feather/High Angle:** 35.0 +-1.0  
**Cwt Angle:**

### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>           | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|------------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | J3F00677           | PHC-J3YF-1MF/F7392-1/SM7     | 1               | A/C            |                          |
| PROPELLER        | J3F00677KD         | PHC-J3YF-1MF/F7392-1/SM7     | 1               | A/C            |                          |
| BLADE            | F7392-1            | PCP:BLADE UNIT, ALUM [1,1,1] | 3               | Prop           |                          |
| SPINNER          | A-2295-1P          | SPINNER ASSEMBLY             | 1               | Prop           |                          |
| SPIN MTG KIT     | A-2476-7           | SPINNER - MTG KIT            | 1               | Prop           |                          |
| MTG BOLT/STUD    | A-2429-5           | STUD, MOUNTING, 1/2-20       | 6               | Prop           |                          |
| OVERHAUL KIT     | PHC-J3YF-1MF-OH    | O/H KIT                      | 1               | Prop           | For aftermarket use only |



# HARTZELL

## APPLICATION GUIDE

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CIRRUS DESIGN CORP.

IDS No.: 1752 Rev.: 2 IC Date: 05/30/2017

**Model:** SR20

**Trade Name:** SR20, SR20 G3, SR20 GTS, SRV, SRV G3

**Aircraft T.C./STC:** A00009CH

**Propeller Model:** PHC-J3YF-1RF

**Propeller T.C.:** P36EA

**Blade Model(s):** F7392-1  
F7392-1\*1

**Prop Diameter:** 74" TO 72"

**Modifier:**

**Engine Model:** IO-360-ES

**Power:** 200 HP @ 2700 RPM

**Placard/Restr:**

**Notes:** SRV model is the same as the SR20, but without a nosewheel fairing and equipped for VFR-only operation. Marketing model only; The following prop p/n's do not get standard packaging, instead they are shipped on the customer's cart: J3F10600.

### Prop Setup:

**Ref. Radius:** 30

**Reverse Angle:** NA

**Low Pitch Angle:** 13.9 +-0.1

**Stud Protrusion** 1.210 +-0.015

**Startlock Angle:** NA

**Feather/High Angle:** 35.0 +-1.0

**Cwt Angle:**

### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| Item Type     | Item Number     | Description                  | Quantity | Qty Per | Comments                     |
|---------------|-----------------|------------------------------|----------|---------|------------------------------|
| PROPELLER     | J3F00026        | PHC-J3YF-1RF/F7392-1/SM7     | 1        | A/C     |                              |
| PROPELLER     | J3F00026KD      | PHC-J3YF-1RF/F7392-1/SM7     | 1        | A/C     |                              |
| PROPELLER     | J3F10600        | PHC-J3YF-1RF/F7392-1[*1]/SM7 | 1        | A/C     | Pkg-Customer Cart-OEM Prop   |
| PROPELLER     | J3F10600AFM     | PHC-J3YF-1RF/F7392-1[*1]/SM7 | 1        | A/C     | Std Pkg-box-aftermarket prop |
| PROPELLER     | J3F10600AFMKD   | PHC-J3YF-1RF/F7392-1[*1]/SM7 | 1        | A/C     |                              |
| PROPELLER     | J3F10600KD      | PHC-J3YF-1RF/F7392-1[*1]/SM7 | 1        | A/C     |                              |
| BLADE         | F7392-1         | PCP:BLADE UNIT, ALUM [1,1,1] | 3        | Prop    |                              |
| BLADE         | F7392-1*1       | PCP:BLADE UNIT, ALUM [3,1,1] | 3        | Prop    |                              |
| SPINNER       | A-2295-1P       | SPINNER ASSEMBLY             | 1        | Prop    | Standard Packaging           |
| GOVERNOR      | S-1-19          | GOVERNOR ASSEMBLY, S-1-19    | 1        | A/C     |                              |
| GOVERNOR      | S-1-8           | GOVERNOR ASSEMBLY, S-1-8     | 1        | A/C     |                              |
| SPIN MTG KIT  | A-2476-7        | SPINNER - MTG KIT            | 1        | Prop    |                              |
| MTG BOLT/STUD | A-2429-5        | STUD, MOUNTING, 1/2-20       | 6        | Prop    |                              |
| OVERHAUL KIT  | PHC-J3YF-1RF-OH | O/H KIT                      | 1        | Prop    | For aftermarket use only     |

# HARTZELL

## APPLICATION GUIDE

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CIRRUS DESIGN CORP.

IDS No.: 2423 Rev.: 5 IC Date: 06/06/2019

**Model:** SR22  
**Trade Name:** SR22, SR22 G3, SR22 GTS  
**Aircraft T.C./STC:** A00009CH  
**Propeller Model:** PHC-J3YF-1RF  
**Propeller T.C.:** P36EA  
**Blade Model(s):** F7693DF\*2  
 F7693DF\*3  
 F7693DF\*4  
 F7693DF\*5  
 F7693DF\*6  
 F7693DF\*7  
 F7693DFB  
 F7693DFB\*1  
 F7693DFB\*2  
 F7693DFB\*3  
 F7693DFB\*4  
 F7693DFB\*5  
 F7693DFB\*6  
 F7693DFB\*7

**Modifier:**  
**Engine Model:** IO(F)-550-N  
**Power:** 310 HP @ 2700 RPM  
**Placard/Restr:**

**Notes:** Boots only; The following prop p/n's do not get standard packaging, instead they are shipped on the customer's cart:  
 J3F00051, J3F00052, J3F09140, J3F09150, J3F09160, J3F09170, J3F10660, J3F10661, J3F10665, J3F10666, J3F10670; IOF-550-N engine installed per STC SA10675SC.

**Prop Diameter:** 78"-76"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.9 +-0.1  
**Stud Protrusion** 1.450 +-0.030

**Startlock Angle:** NA  
**Feather/High Angle:** 40.0 +-1.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type | Item Number   | Description                    | Quantity | Qty Per | Comments  |
|-----------|---------------|--------------------------------|----------|---------|---|
| PROPELLER | J3F00050      | PHC-J3YF-1RF/F7693DF[*3]/SM7   | 1        | A/C     | Pkg-Customer Cart-OEM Prop  |
| PROPELLER | J3F00051      | PHC-J3YF-1RF/F7693DF[*2]/SM7   | 1        | A/C     | Pkg-Customer Cart-OEM Prop  |
| PROPELLER | J3F00051AFM   | PHC-J3YF-1RF/F7693DF[*2]/SM7   | 1        | A/C     | Std Pkg-box-aftermarket prop  |
| PROPELLER | J3F00051KD    | PHC-J3YF-1RF/F7693DF[*2]/SM7   | 1        | A/C     |   |
| PROPELLER | J3F00052      | PHC-J3YF-1RF/F7693DFB/SM7      | 1        | A/C     | Pkg-Customer Cart-OEM Prop  |
| PROPELLER | J3F00052AFM   | PHC-J3YF-1RF/F7693DFB/SM7      | 1        | A/C     | Std Pkg-box-aftermarket prop  |
| PROPELLER | J3F00052KD    | PHC-J3YF-1RF/F7693DFB/SM7      | 1        | A/C     | Knockdown packaging   |
| PROPELLER | J3F00054      | PHC-J3YF-1RF/F7693DFB[*1]/SM7  | 1        | A/C     | Std Pkg - box   |
| PROPELLER | J3F00063      | PHC-J3YF-1RF/F7693DFB[*2]/SM7  | 1        | A/C     | Std Pkg - box   |
| PROPELLER | J3F00064      | PHC-J3YF-1RF/F7693DFB[*3]/SM7  | 1        | A/C     | Pkg-Customer Cart-OEM Prop  |
| PROPELLER | J3F09140      | PHC-J3YF-1RF/F7693DF[*4]/SM7   | 1        | A/C     | Pkg-Customer Cart-OEM Prop  |
| PROPELLER | J3F09140AFM   | PHC-J3YF-1RF/F7693DF[*4]/SM7   | 1        | A/C     | Std Pkg-box-aftermarket prop  |
| PROPELLER | J3F09150      | PHC-J3YF-1RF/F7693DF[*5]/SM7   | 1        | A/C     | Pkg-Customer Cart-OEM Prop  |
| PROPELLER | J3F09150AFM   | PHC-J3YF-1RF/F7693DF[*5]/SM7   | 1        | A/C     | Std Pkg-box-aftermarket prop  |
| PROPELLER | J3F09160      | PHC-J3YF-1RF/F7693DF[*6]/SM7   | 1        | A/C     | Pkg-Customer Cart-OEM Prop  |
| PROPELLER | J3F09160AFM   | PHC-J3YF-1RF/F7693DF[*6]/SM7   | 1        | A/C     | Std Pkg-box-aftermarket prop  |
| PROPELLER | J3F09170      | PHC-J3YF-1RF/F7693DF[*7]/SM7   | 1        | A/C     |   |
| PROPELLER | J3F09170AFM   | PHC-J3YF-1RF/F7693DF[*7]/SM7   | 1        | A/C     |   |
| PROPELLER | J3F09170AFMKD | PHC-J3YF-1RF/F7693DF[*7]/SM7   | 1        | A/C     |   |
| PROPELLER | J3F10660      | PHC-J3YF-1RF/F7693DFB[*4]/SM7  | 1        | A/C     | Pkg-Customer Cart-OEM Prop  |
| PROPELLER | J3F10660AFM   | PHC-J3YF-1RF/F7693DFB[*4]/SM7  | 1        | A/C     | Std Pkg-box-aftermarket prop  |
| PROPELLER | J3F10661      | PHC-J3YF-1RF/F7693DFB[*4]/SM34 | 1        | A/C     | Pkg-Customer Cart-OEM Prop. This prop is for use with 102870 Spinner    |
| PROPELLER | J3F10661AFM   | PHC-J3YF-1RF/F7693DFB[*4]/SM34 | 1        | A/C     | Std Pkg-box-aftermarket prop. This prop is for use with 102870 Spinner. |
| PROPELLER | J3F10665      | PHC-J3YF-1RF/F7693DFB[*5]/SM7  | 1        | A/C     | Pkg-Customer Cart-OEM Prop  |
| PROPELLER | J3F10665AFM   | PHC-J3YF-1RF/F7693DFB[*5]/SM7  | 1        | A/C     | Std Pkg-box-aftermarket prop  |

|               |                 |                                |   |       |   |
|---------------|-----------------|--------------------------------|---|-------|---|
| PROPELLER     | J3F10666        | PHC-J3YF-1RF/F7693DFB[*6]/SM7  | 1 | A/C   | Pkg-Customer Cart-OEM Prop                |
| PROPELLER     | J3F10666AFM     | PHC-J3YF-1RF/F7693DFB[*6]/SM7  | 1 | A/C   | Std Pkg-box-aftermarket prop              |
| PROPELLER     | J3F10670        | PHC-J3YF-1RF/F7693DFB[*7]/SM7  | 1 | A/C   |   |
| PROPELLER     | J3F10670AFM     | PHC-J3YF-1RF/F7693DFB[*7]/SM7  | 1 | A/C   |   |
| PROPELLER     | J3F10670AFMKD   | PHC-J3YF-1RF/F7693DFB[*7]/SM7  | 1 | A/C   |   |
| BLADE         | F7693DF*2       | PCP:BLADE UNIT,ALUM [11,15,11] | 3 | Prop  |   |
| BLADE         | F7693DF*3       | PCP:BLADE UNIT, ALUM [6,18,11] | 3 | Prop  |   |
| BLADE         | F7693DF*4       | PCP:BLADE UNIT, ALUM [3,20,11] | 3 | Prop  |   |
| BLADE         | F7693DF*5       | PCP:BLADE UNIT, ALUM [3,1,11]  | 3 | Prop  |   |
| BLADE         | F7693DF*6       | PCP:BLADE UNIT, ALUM [3,21,11] | 3 | Prop  |   |
| BLADE         | F7693DF*7       | PCP:BLADE UNIT, ALUM [3,24,11] | 3 | Prop  |   |
| BLADE         | F7693DFB        | PCP:BLADE UNIT,ALUM [11,15,11] | 3 | Prop  |   |
| BLADE         | F7693DFB*1      | PCP:BLADE UNIT, ALUM [6,18,11] | 3 | Prop  |   |
| BLADE         | F7693DFB*2      | PCP:BLADE UNIT,ALUM [12,17,12] | 3 | Prop  |   |
| BLADE         | F7693DFB*3      | PCP:BLADE UNIT,ALUM [3,19,11]  | 3 | Prop  |   |
| BLADE         | F7693DFB*4      | PCP:BLADE UNIT,ALUM [3,1,11]   | 3 | Prop  |   |
| BLADE         | F7693DFB*5      | PCP:BLADE UNIT, ALUM [3,20,11] | 3 | Prop  |   |
| BLADE         | F7693DFB*6      | PCP:BLADE UNIT, ALUM [3,21,11] | 3 | Prop  |   |
| BLADE         | F7693DFB*7      | PCP:BLADE UNIT,ALUM [3,24,11]  | 3 | Prop  |   |
| SPINNER       | 102870          | SPINNER ASSEMBLY, COMPOSITE    | 1 | Prop  | For use with prop item # J3F10661         |
| SPINNER       | A-2295-1        | SPINNER ASSEMBLY               | 1 | A/C   | Standard packaging                        |
| SPINNER       | A-2295-1P       | SPINNER ASSEMBLY               | 1 | A/C   | Standard packaging                        |
| GOVERNOR      | S-1-19          | GOVERNOR ASSEMBLY, S-1-19      | 1 | A/C   |   |
| GOVERNOR      | S-1-20          | GOVERNOR ASSEMBLY, S-1-20      | 1 | Prop  |   |
| GOVERNOR      | S-1-8           | GOVERNOR ASSEMBLY, S-1-8       | 1 | A/C   |   |
| SPIN MTG KIT  | A-2476-34       | SPINNER - MTG KIT              | 1 | Prop  | For use with composite spinner P/N 102870 |
| SPIN MTG KIT  | A-2476-7        | SPINNER - MTG KIT              | 1 | Prop  |   |
| DE-ICER       | C-2131-10       | BOOT, ANTI-ICING               | 1 | Blade |   |
| MTG BOLT/STUD | A-2429-4        | STUD, MOUNTING, 1/2-20         | 6 | Prop  |   |
| OVERHAUL KIT  | PHC-J3YF-1RF-OH | O/H KIT                        | 1 | Prop  | For aftermarket use only                  |

# HARTZELL

## APPLICATION GUIDE

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CIRRUS DESIGN CORP.

IDS No.: 1662 Rev.: 2 IC Date: 07/16/2015

**Model:** SR22, SR22 G3, SR22 GTS

**Trade Name:** CIRRUS

**Aircraft T.C./STC:** A00009CH

**Propeller Model:** PHC-J3YF-1RF

**Propeller T.C.:** P36EA

**Blade Model(s):** F7694  
F7694\*1  
F7694\*3  
F7694B

**Prop Diameter:** 78" TO 76"

**Prop Setup:**

**Ref. Radius:** 30

**Reverse Angle:** NA

**Low Pitch Angle:** 14.1 +-0.1

**Stud Protrusion** 1.450 +-0.030

**Modifier:**

**Engine Model:** IO(F)-550-N

**Power:** 310 HP @ 2700 RPM

**Placard/Restr:**

**Notes:** IOF-550-N engine installed per STC SA10675SC.

**Startlock Angle:** NA

**Feather/High Angle:** 35.0 +-1.0

**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>             | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>   |
|------------------|--------------------|--------------------------------|-----------------|----------------|---|
| PROPELLER        | J3F00029           | PHC-J3YF-1RF/F7694/SM7         | 1               | A/C            | Prop without anti-ice boots. Blades painted gray on camber, black on face.  |
| PROPELLER        | J3F00029KD         | PHC-J3YF-1RF/F7694/SM7         | 1               | A/C            | Prop without anti-ice boots. Blades painted gray on camber, black on face.  |
| PROPELLER        | J3F00029S          | PHC-J3YF-1RF/F7694B/SM7/DE-ICE | 1               | A/C            | Prop with anti-ice boots, and including spinner. Blades painted gray on camber, black on face.                                  |
| PROPELLER        | J3F00029SKD        | PHC-J3YF-1RF/F7694B/SM7/DE-ICE | 1               | A/C            | Prop with anti-ice boots, and including spinner. Prop dis-assembled for shipping. Blades painted gray on camber, black on face. |
| PROPELLER        | J3F00350           | PHC-J3YF-1RF/F7694B/SM7        | 1               | A/C            | Prop with anti-ice boots. Blades painted gray on camber, black on face.   |
| PROPELLER        | J3F00350KD         | PHC-J3YF-1RF/F7694B/SM7        | 1               | A/C            | Prop with anti-ice boots, dis-assembled for shipping. Blades painted gray on camber, black on face.                             |
| PROPELLER        | J3F10000           | PHC-J3YF-1RF/F7694[*1]/SM7     | 1               | A/C            | Prop without anti-ice boots. Blades painted cream on camber, black on face  |
| PROPELLER        | J3F10005           | PHC-J3YF-1RF/F7694[*3]/SM7     | 1               | A/C            | Prop without anti-ice boots. Blades painted white on camber, black on face.   |
| BLADE            | F7694              | PCP:BLADE UNIT, ALUM [1,1,1]   | 3               | Prop           | Blade painted gray on camber, black on face.  |
| BLADE            | F7694*1            | PCP:BLADE UNIT,ALUM [12,17,12] | 3               | Prop           | Blade painted cream on camber, black on face  |
| BLADE            | F7694*3            | PCP:BLADE UNIT,ALUM [11,17,12] | 3               | Prop           | Blade painted white on camber, black on face  |
| BLADE            | F7694B             | PCP:BLADE UNIT, ALUM [1,1,1]   | 3               | Prop           | Blade including anti-ice boot. Blade painted gray on camber, black on face.   |
| SPINNER          | A-2295-1           | SPINNER ASSEMBLY               | 1               | Prop           | Spinner configured without anti-ice. Buffed surface finish (suitable for painting)  |
| SPINNER          | A-2295-1P          | SPINNER ASSEMBLY               | 1               | Prop           | Polished spinner configured without anti-ice  |
| SPINNER          | A-2295-8           | SPINNER ASSEMBLY               | 1               | Prop           | Spinner configured for anti-ice. Buffed surface finish (suitable for painting)  |

|               |                 |                        |   |       |  |
|---------------|-----------------|------------------------|---|-------|--|
| SPINNER       | A-2295-8P       | SPINNER ASSEMBLY       | 1 | Prop  | Polished spinner configured for anti-ice |
| SPIN MTG KIT  | A-2476-7        | SPINNER - MTG KIT      | 1 | Prop  |  |
| DE-ICER       | C-2131-8        | BOOT, ANTI-ICING       | 1 | Blade | Blade Component                          |
| DE-ICE KIT PR | D-4695-1        | ANTI-ICE - INSTL KIT   | 1 | Prop  |  |
| MTG BOLT/STUD | A-2429-4        | STUD, MOUNTING, 1/2-20 | 6 | Prop  |  |
| OVERHAUL KIT  | PHC-J3YF-1RF-OH | O/H KIT                | 1 | Prop  | For aftermarket use only                 |

#### CIRRUS DESIGN CORP.

**Model:** SR22, SR22 G3, SR22 GTS

**Trade Name:** CIRRUS

**Aircraft T.C./STC:** A00009CH

**Propeller Model:** PHC-J3YF-1RF

**Propeller T.C.:** P36EA

**Blade Model(s):** F7694B\*1

**Prop Diameter:** 78" TO 76"

**IDS No.:** 2519

**Rev.:** 1

**IC Date:** 07/16/2015

**Modifier:**

**Engine Model:** IO(F)-550-N

**Power:** 310 HP @ 2700 RPM

**Placard/Restr:**

**Notes:** Prop Spare Configuration, Linen paint scheme, TKS Anti-Ice; IOF-550-N engine installed per STC SA10675SC.

#### Prop Setup:

**Ref. Radius:** 30

**Reverse Angle:** NA

**Low Pitch Angle:** 14.1 +-0.1

**Stud Protrusion** 1.450 +-0.030

**Startlock Angle:** NA

**Feather/High Angle:** 35.0 +-1.0

**Cwt Angle:**

#### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:**

#### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>             | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|--------------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | J3F10010           | PHC-J3YF-1RF/F7694B[*1]/SM7    | 1               | A/C            |                          |
| BLADE            | F7694B*1           | PCP:BLADE UNIT,ALUM [12,17,12] | 3               | Prop           |                          |
| SPINNER          | A-2295-1           | SPINNER ASSEMBLY               | 1               | Prop           |                          |
| SPINNER          | A-2295-1P          | SPINNER ASSEMBLY               | 1               | Prop           |                          |
| SPINNER          | A-2295-8           | SPINNER ASSEMBLY               | 1               | Prop           |                          |
| SPINNER          | A-2295-8P          | SPINNER ASSEMBLY               | 1               | Prop           |                          |
| SPIN MTG KIT     | A-2476-7           | SPINNER - MTG KIT              | 1               | Prop           |                          |
| DE-ICER          | C-2131-10          | BOOT, ANTI-ICING               | 1               | Blade          |                          |
| DE-ICE KIT PR    | D-4695-1           | ANTI-ICE - INSTL KIT           | 1               | Prop           |                          |
| MTG BOLT/STUD    | A-2429-4           | STUD, MOUNTING, 1/2-20         | 6               | Prop           |                          |
| MTG BOLT/STUD    | A-2429-4           | STUD, MOUNTING, 1/2-20         | 6               | Prop           |                          |
| OVERHAUL KIT     | PHC-J3YF-1RF-OH    | O/H KIT                        | 1               | Prop           | For aftermarket use only |

CIRRUS DESIGN CORP.

IDS No.: 2798      Rev.: 6      IC      Date: 08/03/2015

**Model:** SR22  
**Trade Name:** SR22 (G3, GTS, Turbo, Turbo GTS)  
**Aircraft T.C./STC:** A00009CH  
**Propeller Model:** PHC-J3Y1F-1N  
**Propeller T.C.:** P36EA  
**Blade Model(s):** N7605  
                          N7605\*1  
                          N7605\*2  
                          N7605\*3  
                          N7605B  
                          N7605B\*1  
                          N7605B\*2  
                          N7605B\*3  
                          N7605C\*3  
**Prop Diameter:** 78

**Modifier:**  
**Engine Model:** IO(F)-550-N  
**Power:** 310 HP @ 2700 RPM  
**Placard/Restr:**

**Notes:** This propeller installation has been approved for bird impact capability; IOF-550-N engine installed per STC SA10675SC. Turbonormalizer installed per STCs SA10588SC and SE10589SC.

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** 12.2 +/- 0.2  
**Stud Protrusion** 1.450 +-0.030

**Startlock Angle:**  
**Feather/High Angle:** 35.0 +-1.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type | Item Number   | Description                    | Quantity | Qty Per | Comments                               |
|-----------|---------------|--------------------------------|----------|---------|--|
| PROPELLER | J3F30000      | PHC-J3Y1F-1N/N7605/SM7         | 1        | A/C     | Pkg-Customer Cart-OEM Prop             |
| PROPELLER | J3F30000AFM   | PHC-J3Y1F-1N/N7605/SM7         | 1        | A/C     | Pkg-Aftermarket Prop                   |
| PROPELLER | J3F30001      | PHC-J3Y1F-1N/N7605[*1]/SM7     | 1        | A/C     | Pkg-Customer Cart-OEM Prop             |
| PROPELLER | J3F30001AFM   | PHC-J3Y1F-1N/N7605[*1]/SM7     | 1        | A/C     | Pkg-Aftermarket Prop                   |
| PROPELLER | J3F30005      | PHC-J3Y1F-1N/N7605[*2]/SM7     | 0        |         |  |
| PROPELLER | J3F30006AFM   | PHC-J3Y1F-1N/N7605[*3]/SM7     | 1        | A/C     | Pkg-Aftermarket Prop                   |
| PROPELLER | J3F30010      | PHC-J3Y1F-1N/N7605/SM34        | 1        | A/C     |  |
| PROPELLER | J3F30010AFM   | PHC-J3Y1F-1N/N7605/SM34        | 1        | A/C     | Pkg-Aftermarket Prop                   |
| PROPELLER | J3F30020      | PHC-J3Y1F-1N/N7605[*2]/SM34    | 1        | A/C     |  |
| PROPELLER | J3F30500      | PHC-J3Y1F-1N/N7605B/SM7        | 1        | A/C     | Pkg-Customer Cart-OEM Prop             |
| PROPELLER | J3F30500AFM   | PHC-J3Y1F-1N/N7605B/SM7        | 1        | A/C     | Pkg-Aftermarket Prop                   |
| PROPELLER | J3F30500AFMKD | PHC-J3Y1F-1N/N7605B/SM7        | 1        | A/C     | Pkg-Aftermarket Prop                   |
| PROPELLER | J3F30501      | PHC-J3Y1F-1N/N7605B[*1]/SM7    | 1        | A/C     | Pkg-Customer Cart-OEM Prop             |
| PROPELLER | J3F30501AFM   | PHC-J3Y1F-1N/N7605B[*1]/SM7    | 1        | A/C     | Pkg-Aftermarket Prop                   |
| PROPELLER | J3F30502      | PHC-J3Y1F-1N/N7605B[*3]/SM7    | 1        | A/C     | Pkg-Customer Cart-OEM Prop             |
| PROPELLER | J3F30502AFM   | PHC-J3Y1F-1N/N7605B[*3]/SM7    | 1        | A/C     | Pkg-Aftermarket Prop                   |
| PROPELLER | J3F30505      | PHC-J3Y1F-1N/N7605B[*2]/SM7    | 0        |         |  |
| PROPELLER | J3F30510      | PHC-J3Y1F-1N/N7605B/SM34       | 1        | A/C     |  |
| PROPELLER | J3F30510AFM   | PHC-J3Y1F-1N/N7605B/SM34       | 1        | A/C     |  |
| PROPELLER | J3F30520      | PHC-J3Y1F-1N/N7605B[*2]/SM34   | 1        | A/C     |  |
| PROPELLER | J3F90010      | PHC-J3Y1F-1N/N7605C[*3]/SM34   | 1        | A/C     |  |
| PROPELLER | J3F90010AFM   | PHC-J3Y1F-1N/N7605C[*3]/SM34   | 1        | A/C     |  |
| BLADE     | N7605         | PCP:BLADE ASSY, COMPOSITE      | 3        | Prop    |  |
| BLADE     | N7605*1       | PCP:BLADE ASSY, COMP [3,21,1]  | 3        | Prop    |  |
| BLADE     | N7605*2       | PCP:BLADE ASSY, COMP. [3,20,1] | 3        | Prop    |  |
| BLADE     | N7605*3       | PCP:BLADE ASSY, COMP [3,27,16] | 3        | Prop    | Blade with 1" mid blade stripe on face |
| BLADE     | N7605B        | PCP:BLADE ASSY, COMP. [3,1,1]  | 3        | Prop    |  |
| BLADE     | N7605B*1      | PCP:BLADE ASSY, COMP. [3,19,1] | 3        | Prop    |  |
| BLADE     | N7605B*2      | PCP:BLADE ASSY, COMP. [3,20,1] | 3        | Prop    |  |
| BLADE     | N7605B*3      | PCP:BLADE ASSY, COMP. [3,21,1] | 3        | Prop    |  |
| BLADE     | N7605C*3      | PCP:BLADE ASSY, COMP. [3,24,1] | 3        | Prop    |  |
| SPINNER   | 102870        | SPINNER ASSEMBLY, COMPOSITE    | 1        | Prop    |  |
| SPINNER   | A-2295-11     | SPINNER ASSEMBLY               | 1        | A/C     | Standard packaging                     |

|               |            |                                |   |       |                              |
|---------------|------------|--------------------------------|---|-------|------------------------------|
| SPINNER       | A-2295-11P | SPINNER ASSEMBLY               | 1 | A/C   | Standard packaging           |
| GOVERNOR      | S-1-20     | GOVERNOR ASSEMBLY, S-1-20      | 1 | Prop  |                              |
| SPIN MTG KIT  | A-2476-34  | SPINNER - MTG KIT              | 1 | Prop  | SMK used with 102870 spinner |
| SPIN MTG KIT  | A-2476-7   | SPINNER - MTG KIT              | 1 | Prop  |                              |
| DE-ICER       | C-2131-9   | BOOT, ANTI-ICING               | 1 | Blade |                              |
| MTG BOLT/STUD | A-2429-4   | STUD, MOUNTING, 1/2-20         | 6 | Prop  |                              |
| MISC ACCES    | A-6741-158 | EROSION TAPE, 2" WIDE, 108' RL | 0 | Blade | Included in blade BOM (12")  |

# HARTZELL

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CIRRUS DESIGN CORP.

IDS No.: 2954 Rev.: 6 IC Date: 08/03/2015

**Model:** SR22T  
**Trade Name:** SR22T  
**Aircraft T.C./STC:** A00009CH  
**Propeller Model:** PHC-J3Y1F-1N  
**Propeller T.C.:** P36EA  
**Blade Model(s):** N7605  
                   N7605\*1  
                   N7605\*2  
                   N7605\*3  
                   N7605B  
                   N7605B\*1  
                   N7605B\*2  
                   N7605B\*3  
                   N7605C\*3  
**Prop Diameter:** 78

**Modifier:**  
**Engine Model:** TSIO-550K  
**Power:** 315 HP @ 2500 RPM  
**Placard/Restr:**  
**Notes:** This propeller installation has been approved for bird impact capability.

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** 12.2 +/- 0.2  
**Stud Protrusion** 1.450 +-0.030

**Startlock Angle:**  
**Feather/High Angle:** 35.0 +-1.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type | Item Number   | Description                    | Quantity | Qty Per | Comments                               |
|-----------|---------------|--------------------------------|----------|---------|--|
| PROPELLER | J3F30000      | PHC-J3Y1F-1N/N7605/SM7         | 1        | A/C     | Pkg-Customer Cart-OEM Prop             |
| PROPELLER | J3F30000AFM   | PHC-J3Y1F-1N/N7605/SM7         | 1        | A/C     | Pkg-Aftermarket Prop                   |
| PROPELLER | J3F30001      | PHC-J3Y1F-1N/N7605[*1]/SM7     | 1        | A/C     | Pkg-Customer Cart-OEM Prop             |
| PROPELLER | J3F30001AFM   | PHC-J3Y1F-1N/N7605[*1]/SM7     | 1        | A/C     | Pkg-Aftermarket Prop                   |
| PROPELLER | J3F30005      | PHC-J3Y1F-1N/N7605[*2]/SM7     | 0        |         |  |
| PROPELLER | J3F30006AFM   | PHC-J3Y1F-1N/N7605[*3]/SM7     | 1        | A/C     |  |
| PROPELLER | J3F30010      | PHC-J3Y1F-1N/N7605/SM34        | 1        | A/C     |  |
| PROPELLER | J3F30010AFM   | PHC-J3Y1F-1N/N7605/SM34        | 1        | A/C     | Pkg-Aftermarket Prop                   |
| PROPELLER | J3F30020      | PHC-J3Y1F-1N/N7605[*2]/SM34    | 1        | A/C     |  |
| PROPELLER | J3F30500      | PHC-J3Y1F-1N/N7605B/SM7        | 1        | A/C     | Pkg-Customer Cart-OEM Prop             |
| PROPELLER | J3F30500AFM   | PHC-J3Y1F-1N/N7605B/SM7        | 1        | A/C     | Pkg-Aftermarket Prop                   |
| PROPELLER | J3F30500AFMKD | PHC-J3Y1F-1N/N7605B/SM7        | 1        | A/C     | Pkg-Aftermarket Prop                   |
| PROPELLER | J3F30501      | PHC-J3Y1F-1N/N7605B[*1]/SM7    | 1        | A/C     | Pkg-Customer Cart-OEM Prop             |
| PROPELLER | J3F30501AFM   | PHC-J3Y1F-1N/N7605B[*1]/SM7    | 1        | A/C     | Pkg-Aftermarket Prop                   |
| PROPELLER | J3F30502      | PHC-J3Y1F-1N/N7605B[*3]/SM7    | 1        | A/C     | Pkg-Customer Cart-OEM Prop             |
| PROPELLER | J3F30502AFM   | PHC-J3Y1F-1N/N7605B[*3]/SM7    | 1        | A/C     | Pkg-Aftermarket Prop                   |
| PROPELLER | J3F30505      | PHC-J3Y1F-1N/N7605B[*2]/SM7    | 0        |         |  |
| PROPELLER | J3F30510      | PHC-J3Y1F-1N/N7605B/SM34       | 1        | A/C     |  |
| PROPELLER | J3F30510AFM   | PHC-J3Y1F-1N/N7605B/SM34       | 1        | A/C     |  |
| PROPELLER | J3F30520      | PHC-J3Y1F-1N/N7605B[*2]/SM34   | 1        | A/C     |  |
| PROPELLER | J3F90010      | PHC-J3Y1F-1N/N7605C[*3]/SM34   | 1        | A/C     |  |
| PROPELLER | J3F90010AFM   | PHC-J3Y1F-1N/N7605C[*3]/SM34   | 1        | A/C     |  |
| BLADE     | N7605         | PCP:BLADE ASSY, COMPOSITE      | 3        | Prop    |  |
| BLADE     | N7605*1       | PCP:BLADE ASSY, COMP [3,21,1]  | 3        | Prop    |  |
| BLADE     | N7605*2       | PCP:BLADE ASSY, COMP. [3,20,1] | 3        | Prop    |  |
| BLADE     | N7605*3       | PCP:BLADE ASSY, COMP [3,27,16] | 3        | Prop    | Blade with 1" mid blade stripe on face |
| BLADE     | N7605B        | PCP:BLADE ASSY, COMP. [3,1,1]  | 3        | Prop    |  |
| BLADE     | N7605B*1      | PCP:BLADE ASSY, COMP. [3,19,1] | 3        | Prop    |  |
| BLADE     | N7605B*2      | PCP:BLADE ASSY, COMP. [3,20,1] | 3        | Prop    |  |
| BLADE     | N7605B*3      | PCP:BLADE ASSY, COMP. [3,21,1] | 3        | Prop    |  |
| BLADE     | N7605C*3      | PCP:BLADE ASSY, COMP. [3,24,1] | 3        | Prop    |  |
| SPINNER   | 102870        | SPINNER ASSEMBLY, COMPOSITE    | 1        | Prop    |  |
| SPINNER   | A-2295-11     | SPINNER ASSEMBLY               | 1        | A/C     | Standard packaging                     |



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|               |            |                                |   |       |                              |
|---------------|------------|--------------------------------|---|-------|------------------------------|
| SPINNER       | A-2295-11P | SPINNER ASSEMBLY               | 1 | A/C   | Standard packaging           |
| GOVERNOR      | S-1-44F    | GOVERNOR ASSEMBLY, S-1-( )F    | 1 | A/C   |                              |
| SPIN MTG KIT  | A-2476-34  | SPINNER - MTG KIT              | 1 | Prop  | SMK used with 102870 spinner |
| SPIN MTG KIT  | A-2476-7   | SPINNER - MTG KIT              | 1 | Prop  |                              |
| DE-ICER       | C-2131-9   | BOOT, ANTI-ICING               | 1 | Blade |                              |
| MTG BOLT/STUD | A-2429-4   | STUD, MOUNTING, 1/2-20         | 6 | Prop  |                              |
| MISC ACCES    | A-6741-158 | EROSION TAPE, 2" WIDE, 108' RL | 0 | Blade | Included in blade BOM (12")  |

### CIRRUS DESIGN CORP.

**Model:** SR22  
**Trade Name:** SR22  
**Aircraft T.C./STC:** SA10588SC  
**Propeller Model:** PHC-J3YF-1N  
**Propeller T.C.:** P36EA  
**Blade Model(s):** N7605  
**Prop Diameter:** 78"

**IDS No.:** 2803      **Rev.:** 2      **IC**      **Date:** 07/16/2015

**Modifier:** ENGINE TECHNOLOGIES  
**Engine Model:** IO-550-N  
**Power:** 310 HP @ 2700 RPM  
**Placard/Restr:**

**Notes:** This propeller installation has been approved for bird impact capability; Turbonormalizer installed per STCs SA10588SC and SE10589SC.

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** 12.2 +/- 0.2  
**Stud Protrusion** 1.450 +/-0.030

**Startlock Angle:**  
**Feather/High Angle:** 35.0 +/-1.0  
**Cwt Angle:**

### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| Item Type     | Item Number    | Description                    | Quantity | Qty Per | Comments                    |
|---------------|----------------|--------------------------------|----------|---------|-----------------------------|
| PROPELLER     | J3F20000       | PHC-J3YF-1N/N7605/SM7          | 1        | A/C     |                             |
| BLADE         | N7605          | PCP:BLADE ASSY, COMPOSITE      | 3        | Prop    |                             |
| SPINNER       | A-2295-11      | SPINNER ASSEMBLY               | 1        | A/C     |                             |
| SPINNER       | A-2295-11P     | SPINNER ASSEMBLY               | 1        | A/C     |                             |
| SPIN MTG KIT  | A-2476-7       | SPINNER - MTG KIT              | 1        | Prop    |                             |
| MTG BOLT/STUD | A-2429-4       | STUD, MOUNTING, 1/2-20         | 6        | Prop    |                             |
| MISC ACCES    | A-6741-158     | EROSION TAPE, 2" WIDE, 108' RL | 0        | Blade   | Included in blade BOM (12") |
| OVERHAUL KIT  | PHC-J3YF-1N-OH | O/H KIT                        | 1        | Prop    | For aftermarket use only    |

CIRRUS DESIGN CORP.

IDS No.: 3121      Rev.: 4      IC      Date: 12/07/2017

**Model:** SR22  
**Trade Name:** SR22 (G3, GTS, Turbo, Turbo GTS)  
**Aircraft T.C./STC:** A00009CH  
**Propeller Model:** PHC-J3Y1F-1N  
**Propeller T.C.:** P36EA  
**Blade Model(s):** N7605C  
                           N7605CB  
                           N7605CB\*2  
**Prop Diameter:** 78"

**Modifier:**  
**Engine Model:** IO(F)-550-N  
**Power:** 310 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:** This propeller installation has been approved for bird impact capability; IOF-550-N engine installed per STC SA10675SC or turbonormalizer installed per STCs SA10588SC and SE10589SC.

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** 12.2 +/- 0.2  
**Stud Protrusion:** 1.450 +/-0.030

**Startlock Angle:**  
**Feather/High Angle:** 35.0 +/-1.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type     | Item Number   | Description                    | Quantity | Qty Per | Comments                     |
|---------------|---------------|--------------------------------|----------|---------|------------------------------|
| PROPELLER     | J3F90000      | PHC-J3Y1F-1N/N7605C/SM7        | 1        | A/C     |                              |
| PROPELLER     | J3F90000AFM   | PHC-J3Y1F-1N/N7605C/SM7        | 1        | A/C     |                              |
| PROPELLER     | J3F90000AFMKD | PHC-J3Y1F-1N/N7605C/SM7        | 1        | A/C     |                              |
| PROPELLER     | J3F90500      | PHC-J3Y1F-1N/N7605CB/SM7       | 1        | A/C     |                              |
| PROPELLER     | J3F90500AFM   | PHC-J3Y1F-1N/N7605CB/SM7       | 1        | A/C     |                              |
| PROPELLER     | J3F90500AFMKD | PHC-J3Y1F-1N/N7605CB/SM7       | 1        | A/C     |                              |
| PROPELLER     | J3F90510      | PHC-J3Y1F-1N/N7605CB/SM34      | 1        | A/C     |                              |
| PROPELLER     | J3F90510AFM   | PHC-J3Y1F-1N/N7605CB/SM34      | 1        | A/C     |                              |
| PROPELLER     | J3F90550      | PHC-J3Y1F-1N/N7605CB[*2]/SM7   | 1        | A/C     |                              |
| PROPELLER     | J3F90550AFM   | PHC-J3Y1F-1N/N7605CB[*2]/SM7   | 1        | A/C     |                              |
| BLADE         | N7605C        | PCP:BLADE ASSY, COMPOSITE      | 3        | Prop    |                              |
| BLADE         | N7605CB       | PCP:BLADE ASSY, COMPOSITE      | 3        | Prop    |                              |
| BLADE         | N7605CB*2     | PCP:BLADE ASSY, COMP[3,24,1]   | 3        | Prop    |                              |
| SPINNER       | 102870        | SPINNER ASSEMBLY, COMPOSITE    | 1        | Prop    |                              |
| SPINNER       | A-2295-11     | SPINNER ASSEMBLY               | 1        | Prop    |                              |
| SPINNER       | A-2295-11P    | SPINNER ASSEMBLY               | 1        | Prop    |                              |
| GOVERNOR      | S-1-20        | GOVERNOR ASSEMBLY, S-1-20      | 1        | A/C     |                              |
| SPIN MTG KIT  | A-2476-34     | SPINNER - MTG KIT              | 1        | Prop    | SMK used with 102870 spinner |
| SPIN MTG KIT  | A-2476-7      | SPINNER - MTG KIT              | 1        | Prop    |                              |
| DE-ICER       | C-2131-9      | BOOT, ANTI-ICING               | 1        | Blade   |                              |
| MTG BOLT/STUD | A-2429-4      | STUD, MOUNTING, 1/2-20         | 6        | Prop    |                              |
| MISC ACCES    | A-6741-158    | EROSION TAPE, 2" WIDE, 108' RL | 0        |         | Included in blade BOM (12")  |

# HARTZELL

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CIRRUS DESIGN CORP.

IDS No.: 3122 Rev.: 5 IC Date: 12/07/2017

Model: SR22T  
 Trade Name: SR22T  
 Aircraft T.C./STC: A00009CH  
 Propeller Model: PHC-J3Y1F-1N  
 Propeller T.C.: P36EA  
 Blade Model(s): N7605C  
 N7605C\*1  
 N7605CB  
 N7605CB\*1  
 N7605CB\*2

Modifier:  
 Engine Model: TSIO-550-K  
 Power: 315 HP @ 2500 RPM  
 Placard/Restr:

Notes: This propeller installation has been approved for bird impact capability.

Prop Diameter: 78"

### Prop Setup:

Ref. Radius: 30  
 Reverse Angle:  
 Low Pitch Angle: 12.2 +/- 0.2  
 Stud Protrusion 1.450 +-0.030

Startlock Angle:  
 Feather/High Angle: 35.0 +-1.0  
 Cwt Angle:

### Non-HPI Items:

Non-HPI Spinner:

Non-HPI Governor:

### Hartzell Approved Items:

| Item Type     | Item Number   | Description                    | Quantity | Qty Per | Comments                     |
|---------------|---------------|--------------------------------|----------|---------|------------------------------|
| PROPELLER     | J3F90000      | PHC-J3Y1F-1N/N7605C/SM7        | 1        | A/C     |                              |
| PROPELLER     | J3F90000AFM   | PHC-J3Y1F-1N/N7605C/SM7        | 1        | A/C     |                              |
| PROPELLER     | J3F90000AFMKD | PHC-J3Y1F-1N/N7605C/SM7        | 1        | A/C     |                              |
| PROPELLER     | J3F90002AFM   | PHC-J3Y1F-1N/N7605C[*1]/SM7    | 1        | A/C     |                              |
| PROPELLER     | J3F90500      | PHC-J3Y1F-1N/N7605CB/SM7       | 1        | A/C     |                              |
| PROPELLER     | J3F90500AFM   | PHC-J3Y1F-1N/N7605CB/SM7       | 1        | A/C     |                              |
| PROPELLER     | J3F90501AFM   | PHC-J3Y1F-1N/N7605CB[*1]/SM7   | 1        | A/C     |                              |
| PROPELLER     | J3F90510      | PHC-J3Y1F-1N/N7605CB/SM34      | 1        | A/C     |                              |
| PROPELLER     | J3F90510AFM   | PHC-J3Y1F-1N/N7605CB/SM34      | 1        | A/C     |                              |
| PROPELLER     | J3F90511      | PHC-J3Y1F-1N/N7605CB[*1]/SM34  | 1        | A/C     |                              |
| PROPELLER     | J3F90511AFM   | PHC-J3Y1F-1N/N7605CB[*1]/SM34  | 1        | A/C     |                              |
| PROPELLER     | J3F90550      | PHC-J3Y1F-1N/N7605CB[*2]/SM7   | 1        | A/C     |                              |
| PROPELLER     | J3F90550AFM   | PHC-J3Y1F-1N/N7605CB[*2]/SM7   | 1        | A/C     |                              |
| BLADE         | N7605C        | PCP:BLADE ASSY, COMPOSITE      | 3        | Prop    |                              |
| BLADE         | N7605C*1      | PCP:BLADE ASSY, COMP [13,18,5] | 3        | Prop    |                              |
| BLADE         | N7605CB       | PCP:BLADE ASSY, COMPOSITE      | 3        | Prop    |                              |
| BLADE         | N7605CB*1     | PCP:BLADE ASSY, COMP [13,18,5] | 3        | Prop    |                              |
| BLADE         | N7605CB*2     | PCP:BLADE ASSY, COMP[3,24,1]   | 3        | Prop    |                              |
| SPINNER       | 102870        | SPINNER ASSEMBLY, COMPOSITE    | 1        | Prop    |                              |
| SPINNER       | A-2295-11     | SPINNER ASSEMBLY               | 1        | Prop    | Standard packaging           |
| SPINNER       | A-2295-11P    | SPINNER ASSEMBLY               | 1        | Prop    | Standard packaging           |
| GOVERNOR      | S-1-44F       | GOVERNOR ASSEMBLY, S-1-( )F    | 1        | A/C     |                              |
| SPIN MTG KIT  | A-2476-34     | SPINNER - MTG KIT              | 1        | Prop    | SMK used with 102870 spinner |
| SPIN MTG KIT  | A-2476-7      | SPINNER - MTG KIT              | 1        | Prop    |                              |
| DE-ICER       | C-2131-9      | BOOT, ANTI-ICING               | 1        | Blade   |                              |
| MTG BOLT/STUD | A-2429-4      | STUD, MOUNTING, 1/2-20         | 6        | Prop    |                              |
| MISC ACCES    | A-6741-158    | EROSION TAPE, 2" WIDE, 108' RL | 0        | Blade   | Included in blade BOM (12")  |

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CIRRUS DESIGN CORP.

IDS No.: 2556 Rev.: 3 IC Date: 07/16/2015

**Model:** SR22  
**Trade Name:** SR22 (G3, GTS, Turbo, Turbo GTS)  
**Aircraft T.C./STC:** A00009CH  
**Propeller Model:** PHC-J3YF-1N  
**Propeller T.C.:** P36EA  
**Blade Model(s):** N7605  
 N7605\*1  
 N7605B  
 N7605B\*1  
 N7605B\*2  
 N7605B\*3

**Modifier:**  
**Engine Model:** IO(F)-550-N  
**Power:** 310 HP @ 2700 RPM  
**Placard/Restr:**

**Notes:** This propeller installation has been approved for bird impact capability; IOF-550-N engine installed per STC SA10675SC. Or turbonormalizer installed per STCs SA10588SC and SE10589SC.

**Prop Diameter:** 78"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** 12.2 +/- 0.2  
**Stud Protrusion** 1.450 +-0.030

**Startlock Angle:**  
**Feather/High Angle:** 35.0 +-1.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type     | Item Number    | Description                    | Quantity | Qty Per | Comments                    |
|---------------|----------------|--------------------------------|----------|---------|-----------------------------|
| PROPELLER     | J3F20000       | PHC-J3YF-1N/N7605/SM7          | 1        | A/C     | Pkg-Customer Cart-OEM Prop  |
| PROPELLER     | J3F20000AFM    | PHC-J3YF-1N/N7605/SM7          | 1        | A/C     | Pkg-Aftermarket Prop        |
| PROPELLER     | J3F20002       | PHC-J3YF-1N/N7605[*1]/SM7      | 1        | A/C     | Pkg-Customer Cart-OEM Prop  |
| PROPELLER     | J3F20002AFM    | PHC-J3YF-1N/N7605[*1]/SM7      | 1        | A/C     | Pkg-Aftermarket Prop        |
| PROPELLER     | J3F20500       | PHC-J3YF-1N/N7605B/SM7         | 1        | A/C     | Pkg-Customer Cart-OEM Prop  |
| PROPELLER     | J3F20500AFM    | PHC-J3YF-1N/N7605B/SM7         | 1        | A/C     | Pkg-Aftermarket Prop        |
| PROPELLER     | J3F20501       | PHC-J3YF-1N/N7605B[*1]/SM7     | 1        | A/C     | Pkg-Customer Cart-EOM Prop  |
| PROPELLER     | J3F20501AFM    | PHC-J3YF-1N/N7605B[*1]/SM7     | 1        | A/C     | Pkg-Aftermarket Prop        |
| PROPELLER     | J3F20502       | PHC-J3YF-1N/N7605B[*2]/SM7     | 1        | A/C     | Pkg-Customer Cart-OEM Prop  |
| PROPELLER     | J3F20502AFM    | PHC-J3YF-1N/N7605B[*2]/SM7     | 1        | A/C     | Pkg-Aftermarket Prop        |
| PROPELLER     | J3F20503       | PHC-J3YF-1N/N7605B[*3]/SM7     | 1        | A/C     | Pkg-Customer Cart-OEM Prop  |
| PROPELLER     | J3F20503AFM    | PHC-J3YF-1N/N7605B[*3]/SM7     | 1        | A/C     | Pkg-Aftermarket Prop        |
| BLADE         | N7605          | PCP:BLADE ASSY, COMPOSITE      | 3        | Prop    |                             |
| BLADE         | N7605*1        | PCP:BLADE ASSY, COMP [3,21,1]  | 3        | Prop    |                             |
| BLADE         | N7605B         | PCP:BLADE ASSY, COMP. [3,1,1]  | 3        | Prop    |                             |
| BLADE         | N7605B*1       | PCP:BLADE ASSY, COMP. [3,19,1] | 3        | Prop    |                             |
| BLADE         | N7605B*2       | PCP:BLADE ASSY, COMP. [3,20,1] | 3        | Prop    |                             |
| BLADE         | N7605B*3       | PCP:BLADE ASSY, COMP. [3,21,1] | 3        | Prop    |                             |
| SPINNER       | A-2295-11      | SPINNER ASSEMBLY               | 1        | A/C     | Standard packaging          |
| SPINNER       | A-2295-11P     | SPINNER ASSEMBLY               | 1        | A/C     | Standard packaging          |
| GOVERNOR      | S-1-20         | GOVERNOR ASSEMBLY, S-1-20      | 1        | Prop    |                             |
| SPIN MTG KIT  | A-2476-7       | SPINNER - MTG KIT              | 1        | Prop    |                             |
| DE-ICER       | C-2131-9       | BOOT, ANTI-ICING               | 1        | Blade   |                             |
| MTG BOLT/STUD | A-2429-4       | STUD, MOUNTING, 1/2-20         | 6        | Prop    |                             |
| MISC ACCES    | A-6741-158     | EROSION TAPE, 2" WIDE, 108' RL | 0        | Blade   | Included in blade BOM (12") |
| OVERHAUL KIT  | PHC-J3YF-1N-OH | O/H KIT                        | 1        | Prop    | For aftermarket use only    |

# HARTZELL

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### CLASSIC SPORT

**Model:** S-18(T)  
**Trade Name:**  
**Aircraft T.C./STC:** Experimental  
**Propeller Model:** HC-C2YR-1BF  
**Propeller T.C.:** P-920

**Blade Model(s):** F7666A-4  
**Prop Diameter:** 72"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** 13.0 +-0.1  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 2477      **Rev.:** 1      **IC Date:** 07/07/2015

**Modifier:**

**Engine Model:** (I)O-360

**Power:** 180 HP @ 2700 RPM

**Placard/Restr:** Avoid continuous operation between 2000 and 2250 RPM

**Notes:**

**Startlock Angle:**

**Feather/High Angle:** 29.0 +-1.0

**Cwt Angle:**

**Non-HPI Governor:**

#### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>       | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|--------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | C2R00690           | HC-C2YR-1BF/F7666A-4/SM8 | 1               | A/C            |                          |
| BLADE            | F7666A-4           | PCP:BLADE UNIT, ALUMINUM | 2               | Prop           |                          |
| SPINNER          | 836-60             | SPINNER ASSEMBLY         | 1               | A/C            |                          |
| SP MT KIT DE-ICE | A-2476-8           | SPINNER - MTG KIT        | 1               | Prop           |                          |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20   | 6               | Prop           |                          |
| OVERHAUL KIT     | HC-C2YR-1BF-OH     | O/H KIT                  | 1               | Prop           | For aftermarket use only |

### CLASSIC SPORT

**Model:** S-18  
**Trade Name:** THORP  
**Aircraft T.C./STC:** Experimental  
**Propeller Model:** HC-C2YL-1BF  
**Propeller T.C.:** P-920  
**Blade Model(s):** F7663A-4  
**Prop Diameter:** 72

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** 13.0 +-0.2  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 2438      **Rev.:** 1      **IC Date:** 07/07/2015

**Modifier:**

**Engine Model:** O-320-D1A

**Power:** 160 HP @ 2700 RPM

**Placard/Restr:**

**Notes:**

**Startlock Angle:**

**Feather/High Angle:** 30.0 +-0.5

**Cwt Angle:**

**Non-HPI Governor:**

#### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>               | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|----------------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | C2L00048           | HC-C2YL-1BF/F7663A-4             | 1               | A/C            |                          |
| BLADE            | F7663A-4           | PCP:BLADE UNIT, ALUMINUM         | 2               | Prop           |                          |
| MTG BOLT/STUD    | A-2247-1           | STUD, MOUNTING, 7/16-20, DRILLED | 6               | Prop           |                          |
| OVERHAUL KIT     | HC-C2YL-1BF-OH     | O/H KIT                          | 1               | Prop           | For aftermarket use only |

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### CLASSIC SPORT AIRCRAFT

**Model:** S/T-18  
**Trade Name:**  
**Aircraft T.C./STC:** Experimental  
**Propeller Model:** HC-F2YL-1F  
**Propeller T.C.:** P27EA  
**Blade Model(s):** F7663A-4  
**Prop Diameter:** 72" NO CUT OFF

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.0 +-0.1  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

#### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>             | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|--------------------------------|-----------------|----------------|-----------------|
| BLADE            | F7663A-4           | PCP:BLADE UNIT, ALUMINUM       | 2               | Prop           |                 |
| MTG BOLT/STUD    | A-2247-1           | STUD, MOUNTING,7/16-20,DRILLED | 6               | Prop           |                 |

**IDS No.:** 1859      **Rev.:** -      **DM Date:** 04/14/2004

**Modifier:**  
**Engine Model:** O-320, IO-320  
**Power:** 160 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 26.5 +-1.5  
**Cwt Angle:**

**Non-HPI Governor:** WOODWARD

### CLASSIC SPORT AIRCRAFT

**Model:** S/T-18  
**Trade Name:**  
**Aircraft T.C./STC:** Experimental  
**Propeller Model:** HC-F2YR-1F  
**Propeller T.C.:** P27EA  
**Blade Model(s):** F7068-2  
**Prop Diameter:** 68.0" TO 67.0"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** 12.0 +-0.1  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

#### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>       | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|--------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | F2R00074           | HC-F2YR-1F/F7068-2       | 1               | A/C            |                          |
| BLADE            | F7068-2            | PCP:BLADE UNIT, ALUMINUM | 2               | Prop           |                          |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20   | 6               | Prop           |                          |
| OVERHAUL KIT     | HC-F2YR-1F-OH      | O/H KIT                  | 1               | Prop           | For aftermarket use only |

**IDS No.:** 1861      **Rev.:** 1      **IC Date:** 07/07/2015

**Modifier:**  
**Engine Model:** (I)O-360 SERIES  
**Power:** 200 HP @ 2700 RPM  
**Placard/Restr:** Refer to TCDS P27EA note 9  
**Notes:**

**Startlock Angle:**  
**Feather/High Angle:** 32.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

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### CLASSIC SPORT AIRCRAFT

**Model:** S/T-18

**Trade Name:**

**Aircraft T.C./STC:** Experimental

**Propeller Model:** HC-F2YR-1F

**Propeller T.C.:** P27EA

**Blade Model(s):** F7666A-4

**Prop Diameter:** 72" NO CUT OFF

#### Prop Setup:

**Ref. Radius:** 30

**Reverse Angle:** NA

**Low Pitch Angle:** 13.0 +-0.1

**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 1860

**Rev.:** 1

**IC Date:** 07/07/2015

**Modifier:**

**Engine Model:** (I)O-360

**Power:** 180 HP @ 2700 RPM

**Placard/Restr:** Avoid continuous operation between 2000 and 2350 RPM

**Notes:**

**Startlock Angle:** NA

**Feather/High Angle:** 29.0 +-1.0

**Cwt Angle:**

**Non-HPI Governor:**

#### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>         | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|----------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | F2R00039           | HC-F2YR-1F/F7666A-4        | 1               | A/C            |                          |
| BLADE            | F7666A-4           | PCP:BLADE UNIT, ALUMINUM   | 2               | Prop           |                          |
| GOVERNOR         | F2-7A              | GOVERNOR ASSEMBLY, F-2-( ) | 1               | A/C            |                          |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20     | 6               | Prop           |                          |
| OVERHAUL KIT     | HC-F2YR-1F-OH      | O/H KIT                    | 1               | Prop           | For aftermarket use only |

### CLASSIC SPORT AIRCRAFT

**Model:** S/T-18

**Trade Name:**

**Aircraft T.C./STC:** Experimental

**Propeller Model:** HC-C2YR-1BF

**Propeller T.C.:** P-920

**Blade Model(s):** F7496-2

**Prop Diameter:** 72"

#### Prop Setup:

**Ref. Radius:** 30

**Reverse Angle:**

**Low Pitch Angle:** 12.0 +- .2

**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 2020

**Rev.:** -

**DM Date:** 06/14/2007

**Modifier:**

**Engine Model:** XP360

**Power:** 180 HP @ 2700 RPM

**Placard/Restr:**

**Notes:**

**Startlock Angle:**

**Feather/High Angle:** 35.0 +-1.0

**Cwt Angle:**

**Non-HPI Governor:**

#### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>            | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|-------------------------------|-----------------|----------------|-----------------|
| PROPELLER        | C2R00653           | HC-C2YR-1BF/F7496-2           | 1               | A/C            |                 |
| BLADE            | F7496-2            | PCP:BLADE UNIT, ALUM [6,1,11] | 2               | Prop           |                 |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20        | 6               | Prop           |                 |

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### CLASSIC SPORT AIRCRAFT

**Model:** S/T-18  
**Trade Name:**  
**Aircraft T.C./STC:** Experimental  
**Propeller Model:** HC-C2YR-1BFP  
**Propeller T.C.:** P-920

**Blade Model(s):** F7496-2  
**Prop Diameter:** 72"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** 12.0 +-0.2  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

#### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>            | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|-------------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | C2R10402           | HC-C2YR-1BFP/F7496-2          | 1               | A/C            |                          |
| BLADE            | F7496-2            | PCP:BLADE UNIT, ALUM [6,1,11] | 2               | Prop           |                          |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20        | 6               | Prop           |                          |
| OVERHAUL KIT     | HC-C2YR-1BF-OH     | O/H KIT                       | 1               | Prop           | For aftermarket use only |

**IDS No.:** 2574      **Rev.:** 1      **IC Date:** 07/07/2015

**Modifier:**  
**Engine Model:** XP360  
**Power:** 180 HP @ 2700 RPM  
**Placard/Restr:** Continuous operation is prohibited above 22" manifold pressure between 2050 and 2200 RPM.

#### **Notes:**

**Startlock Angle:**  
**Feather/High Angle:** 35.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

### COLONIAL (REVO)

**Model:** C1  
**Trade Name:** COLONIAL SKIMMER  
**Aircraft T.C./STC:** 1A13  
**Propeller Model:** HC-82XL-6L  
**Propeller T.C.:**  
**Blade Model(s):** L8046-6  
**Prop Diameter:** 74" TO 72.5"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 11.7 +-0.2  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

#### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>        | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|---------------------------|-----------------|----------------|-----------------|
| BLADE            | L8046-6            | IDS ITEM, BLADE, HARTZITE | 2               | Prop           |                 |
| SPINNER          | 835-30             | SPINNER ASSEMBLY          | 1               | Prop           |                 |

**IDS No.:** 445      **Rev.:** -      **DM Date:** 10/01/1992

**Modifier:**  
**Engine Model:** O-320-A2A  
**Power:** 150 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 20.0 +-0.5  
**Cwt Angle:**

**Non-HPI Governor:** WOODWARD



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COLONIAL (REVO)

IDS No.: 2168      Rev.: -      DM Date: 11/20/2003

**Model:** C1  
**Trade Name:** COLONIAL SKIMMER  
**Aircraft T.C./STC:** 1A13  
**Propeller Model:** HC-82VL-6L, HC-A2VL-6L  
**Propeller T.C.:**  
**Blade Model(s):**  
**Prop Diameter:** 74" TO 72.5"

**Modifier:**  
**Engine Model:** O-320-A2A  
**Power:** 150 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 11.7 +/-0.2  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 20.0 +/-0.5  
**Cwt Angle:**

### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:** WOODWARD

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u> | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|--------------------|-----------------|----------------|-----------------|
| SPINNER          | 835-30             | SPINNER ASSEMBLY   | 1               | Prop           |                 |

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### COMMANDER

**Model:** 114, 114A  
**Trade Name:**  
**Aircraft T.C./STC:** SA00326BO  
**Propeller Model:** HC-C3YR-1RF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** F7693F\*2  
 F7693F-1\*2  
**Prop Diameter:** 78" to 76"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** 12.0 +/- 0.2  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 3184      **Rev.:** 7      **IC Date:** 08/08/2022

**Modifier:** Aerodyme Corp  
**Engine Model:** IO-540-T4A5D, T4B5D, T4B5  
**Power:** 260 HP @ 2700 RPM  
**Placard/Restr:** None.  
**Notes:**

**Startlock Angle:**  
**Feather/High Angle:** 31.0 +/- 1.0  
**Cwt Angle:**

**Non-HPI Governor:**

#### Hartzell Approved Items:

| Item Type     | Item Number    | Description                   | Quantity | Qty Per | Comments                 |
|---------------|----------------|-------------------------------|----------|---------|--------------------------|
| PROPELLER     | C3R01306       | HC-C3YR-1RF/F7693F[*2]/SM35   | 1        | A/C     | Superseded by C3R01309   |
| PROPELLER     | C3R01306KD     | HC-C3YR-1RF/F7693F[*2]/SM35   | 1        | A/C     |                          |
| PROPELLER     | C3R01309       | HC-C3YR-1RF/F7693F[*2]/SM7    | 1        | A/C     | Uses C-3575-1P Spinner   |
| PROPELLER     | C3R01375       | HC-C3YR-1RF/F7693F-1[*2]/SM35 | 1        | A/C     | Superseded by C3R01378   |
| PROPELLER     | C3R01375KD     | HC-C3YR-1RF/F7693F-1[*2]/SM35 | 1        | A/C     | Superseded by C3R01378KD |
| PROPELLER     | C3R01378       | HC-C3YR-1RF/F7693F-1[*2]/SM7  | 1        | A/C     | Uses C-3575-1P Spinner   |
| PROPELLER     | C3R01378KD     | HC-C3YR-1RF/F7693F-1[*2]/SM7  | 1        | A/C     | Uses C-3575-1P Spinner   |
| BLADE         | F7693F*2       | PCP:BLADE UNIT, ALUM [6,1,1]  | 3        | Prop    |                          |
| BLADE         | F7693F-1*2     | PCP:BLADE UNIT, ALUM [6,1,1]  | 3        | Prop    |                          |
| SPINNER       | C-3575-1P      | SPINNER ASSEMBLY              | 1        | Prop    | Use A-2476-7 SMK         |
| SPINNER       | D-7709         | SPINNER ASSEMBLY              | 1        | Prop    | Use A-2476-35 SMK        |
| SPINNER       | D-7709P        | SPINNER ASSEMBLY              | 1        | Prop    | Use A-2476-35 SMK        |
| GOVERNOR      | S-1-55         | GOVERNOR ASSEMBLY, S-1-55     | 1        | A/C     |                          |
| SPIN MTG KIT  | A-2476-35      | SPINNER - MTG KIT             | 1        | Prop    | For use with D-7709(P)   |
| SPIN MTG KIT  | A-2476-7       | SPINNER - MTG KIT             | 1        | Prop    | For use with C-3575-1(P) |
| MTG BOLT/STUD | A-2067         | STUD, MOUNTING, 1/2-20        | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-C3YR-1RF-OH | O/H KIT                       | 1        | Prop    | For aftermarket use only |

# HARTZELL

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### COMMANDER

**Model:** see AERO COMMANDER

**Trade Name:**

**Aircraft T.C./STC:**

**Propeller Model:**

**Propeller T.C.:**

**Blade Model(s):**

**Prop Diameter:**

#### Prop Setup:

**Ref. Radius:**

**Reverse Angle:**

**Low Pitch Angle:**

**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

#### Hartzell Approved Items:

**IDS No.:** 447

**Rev.:** -

**DM Date:** 10/01/1992

**Modifier:**

**Engine Model:**

**Power:** HP @ RPM

**Placard/Restr:**

**Notes:**

**Startlock Angle:**

**Feather/High Angle:**

**Cwt Angle:**

**Non-HPI Governor:**

### COMMANDER

**Model:** 114, 114(A,B)

**Trade Name:** Commander

**Aircraft T.C./STC:** SA00326BO

**Propeller Model:** HC-M3YR-1RF

**Propeller T.C.:** P31EA

**Blade Model(s):** F7693F  
F7693F-1

**Prop Diameter:** 78"-76"

#### Prop Setup:

**Ref. Radius:** 30

**Reverse Angle:**

**Low Pitch Angle:** 12.0 +-0.2

**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

#### Hartzell Approved Items:

**IDS No.:** 3871

**Rev.:** -

**IC Date:** 08/15/2022

**Modifier:** Aerodyme Corp.

**Engine Model:** IO-540-T4A5D,T4B5D,T4B5

**Power:** 260 HP @ 2700 RPM

**Placard/Restr:** None

**Notes:**

**Startlock Angle:**

**Feather/High Angle:** 31.0 +-1.0

**Cwt Angle:**

**Non-HPI Governor:**

| Item Type     | Item Number | Description                  | Quantity | Qty Per | Comments                 |
|---------------|-------------|------------------------------|----------|---------|--------------------------|
| PROPELLER     | M3R00210    | HC-M3YR-1RF/F7693F/SM35      | 1        | A/C     |                          |
| PROPELLER     | M3R00210KD  | HC-M3YR-1RF/F7693F/SM35      | 1        | A/C     |                          |
| PROPELLER     | M3R00215    | HC-M3YR-1RF/F7693F-1/SM35    | 1        | A/C     |                          |
| PROPELLER     | M3R00215KD  | HC-M3YR-1RF/F7693F-1/SM35    | 1        | A/C     |                          |
| BLADE         | F7693F      | PCP:BLADE UNIT, ALUM [1,1,1] | 3        | Prop    |                          |
| BLADE         | F7693F-1    | PCP:BLADE UNIT, ALUM [1,1,1] | 3        | Prop    |                          |
| SPINNER       | C-3575-1    | SPINNER ASSEMBLY             | 1        | Prop    | Use A-2476-7 SMK         |
| SPINNER       | C-3575-1P   | SPINNER ASSEMBLY             | 1        | Prop    | Use A-2476-7 SMK         |
| SPINNER       | D-7709      | SPINNER ASSEMBLY             | 1        | Prop    | Use A-2476-35 SMK        |
| SPINNER       | D-7709P     | SPINNER ASSEMBLY             | 1        | Prop    | Use A-2476-35 SMK        |
| GOVERNOR      | S-1-55      | GOVERNOR ASSEMBLY, S-1-55    | 1        | A/C     |                          |
| SPIN MTG KIT  | A-2476-35   | SPINNER - MTG KIT            | 1        | Prop    | For use with D-7709(P)   |
| SPIN MTG KIT  | A-2476-7    | SPINNER - MTG KIT            | 1        | Prop    | For use with C-3575-1(P) |
| MTG BOLT/STUD | A-2067      | STUD, MOUNTING, 1/2-20       | 6        | Prop    |                          |

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### COMMANDER

**Model:** 114, 114(A,B,TC)  
**Trade Name:**  
**Aircraft T.C./STC:** SA00241BO  
**Propeller Model:** HC-M3YR-1RF  
**Propeller T.C.:** P31EA  
**Blade Model(s):** F7693F  
 F7693F\*2  
**Prop Diameter:** 78"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** 13.3 +-0.2  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

#### Hartzell Approved Items:

**IDS No.:** 2635      **Rev.:** 1      **D**      **Date:** 07/18/2013

**Modifier:** Aerodyme Corp.  
**Engine Model:** IO-580-B1A  
**Power:** 315 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:**  
**Feather/High Angle:** 31.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>           | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>        |
|------------------|--------------------|------------------------------|-----------------|----------------|------------------------|
| PROPELLER        | M3R00200           | HC-M3YR-1RF/F7693F[*2]/SM35  | 1               | A/C            |                        |
| PROPELLER        | M3R00200KD         | HC-M3YR-1RF/F7693F[*2]/SM35  | 1               | A/C            |                        |
| BLADE            | F7693F             | PCP:BLADE UNIT, ALUM [1,1,1] | 3               | Prop           | Superseded by F7693F*2 |
| BLADE            | F7693F*2           | PCP:BLADE UNIT, ALUM [6,1,1] | 3               | Prop           | Supersedes F7693F      |
| SPINNER          | D-7709             | SPINNER ASSEMBLY             | 1               | Prop           |                        |
| SPINNER          | D-7709P            | SPINNER ASSEMBLY             | 1               | Prop           |                        |
| GOVERNOR         | V-5-11             | GOVERNOR ASSEMBLY, V-5-( )   | 1               | A/C            |                        |
| SPIN MTG KIT     | A-2476-35          | SPINNER - MTG KIT            | 1               | Prop           |                        |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20       | 6               | Prop           |                        |

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### COMMANDER

**Model:** 114, 114(A,B,TC)  
**Trade Name:**  
**Aircraft T.C./STC:** SA00241BO  
**Propeller Model:** HC-C3YR-1RF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** F7693F\*2  
**Prop Diameter:** 78"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** 13.3 +-0.2  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 2549      **Rev.:** 1      **IC Date:** 07/16/2015

**Modifier:** Aerodyme Corp.  
**Engine Model:** IO-580-B1A  
**Power:** 315 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:**  
**Feather/High Angle:** 31.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

#### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>           | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|------------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | C3R00048           | HC-C3YR-1RF/F7693F[*2]/SM35  | 1               | A/C            |                          |
| PROPELLER        | C3R00048KD         | HC-C3YR-1RF/F7693F[*2]/SM35  | 1               | A/C            |                          |
| BLADE            | F7693F*2           | PCP:BLADE UNIT, ALUM [6,1,1] | 3               | Prop           |                          |
| SPINNER          | D-7709             | SPINNER ASSEMBLY             | 1               | Prop           |                          |
| SPINNER          | D-7709P            | SPINNER ASSEMBLY             | 1               | Prop           |                          |
| GOVERNOR         | V-5-11             | GOVERNOR ASSEMBLY, V-5-( )   | 1               | A/C            |                          |
| SPIN MTG KIT     | A-2476-35          | SPINNER - MTG KIT            | 1               | Prop           |                          |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20       | 6               | Prop           |                          |
| OVERHAUL KIT     | HC-C3YR-1RF-OH     | O/H KIT                      | 1               | Prop           | For aftermarket use only |

### CONSOLIDATED

**Model:** see LAKE  
**Trade Name:**  
**Aircraft T.C./STC:**  
**Propeller Model:**  
**Propeller T.C.:**  
**Blade Model(s):**  
**Prop Diameter:**

#### Prop Setup:

**Ref. Radius:**  
**Reverse Angle:**  
**Low Pitch Angle:**  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 448      **Rev.:** -      **DM Date:** 10/01/1992

**Modifier:**  
**Engine Model:**  
**Power:** HP @ RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:**  
**Feather/High Angle:**  
**Cwt Angle:**

**Non-HPI Governor:**

#### Hartzell Approved Items:

# HARTZELL

## APPLICATION GUIDE 159

### CROPLEASE

**Model:** see NORMAN AEROPLANE  
**Trade Name:**  
**Aircraft T.C./STC:**  
**Propeller Model:**  
**Propeller T.C.:**  
**Blade Model(s):**  
**Prop Diameter:**

#### Prop Setup:

**Ref. Radius:**  
**Reverse Angle:**  
**Low Pitch Angle:**  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

#### Hartzell Approved Items:

**IDS No.:** 449      **Rev.:** -      **DM Date:** 10/01/1992

**Modifier:**  
**Engine Model:**  
**Power:** HP @ RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:**  
**Feather/High Angle:**  
**Cwt Angle:**

**Non-HPI Governor:**

### CubCrafters

**Model:** CC19-180  
**Trade Name:** Xcub  
**Aircraft T.C./STC:** A00053SE  
**Propeller Model:** HC-C2YR-1N  
**Propeller T.C.:** P-920  
**Blade Model(s):** NG8301-5  
**Prop Diameter:** 78"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** 9.8 +/- 0.1  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

#### Hartzell Approved Items:

**IDS No.:** 3443      **Rev.:** 3      **IC Date:** 02/14/2020

**Modifier:**  
**Engine Model:** O-360-C1G  
**Power:** 180 HP @ 2700 RPM  
**Placard/Restr:** None.  
**Notes:**

**Startlock Angle:**  
**Feather/High Angle:** 29.5 +/- 0.5  
**Cwt Angle:**

**Non-HPI Governor:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>          | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>            |
|------------------|--------------------|-----------------------------|-----------------|----------------|----------------------------|
| PROPELLER        | C2R40750           | HC-C2YR-1N/NG8301-5/SM14    | 1               | A/C            |                            |
| BLADE            | NG8301-5           | PCP:BLADE ASSY, COMPOSITE   | 2               | Prop           |                            |
| SPINNER          | 106040             | SPINNER ASSEMBLY, COMPOSITE | 1               | Prop           | primed                     |
| SPINNER          | 106040F1           | SPINNER ASSEMBLY, COMPOSITE | 1               | Prop           | painted white              |
| SPINNER          | 106040F2           | SPINNER ASSEMBLY, COMPOSITE | 1               | Prop           | painted silver             |
| GOVERNOR         | S-1-73             | GOVERNOR ASSEMBLY, S-1-73   | 1               | A/C            |                            |
| SPIN MTG KIT     | A-2476-14          | SPINNER - MTG KIT           | 1               | Prop           | use with 106040( ) spinner |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20      | 6               | Prop           |                            |

# HARTZELL

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CubCrafters

**Model:** CCEX3/FX3  
**Trade Name:** Carbon Cub EX3/FX3  
**Aircraft T.C./STC:** Experimental  
**Propeller Model:** HC-C2YR-1NW  
**Propeller T.C.:** P-920  
**Blade Model(s):** NG8301W  
**Prop Diameter:** 83"

**IDS No.:** 3542      **Rev.:** 1      **IC Date:** 02/14/2020

**Modifier:**  
**Engine Model:** CC363i  
**Power:** 185 HP @ 2700 RPM  
**Placard/Restr:** None.  
**Notes:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** 11.0 +/- 0.2  
**Stud Protrusion**

**Startlock Angle:**  
**Feather/High Angle:** 30 +/- 1.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type     | Item Number | Description                 | Quantity | Qty Per | Comments                   |
|---------------|-------------|-----------------------------|----------|---------|----------------------------|
| PROPELLER     | C2R80110    | HC-C2YR-1NW/NG8301W/SM14    | 1        | A/C     |                            |
| BLADE         | NG8301W     | PCP:BLADE ASSY, COMPOSITE   | 2        | Prop    |                            |
| SPINNER       | 106040      | SPINNER ASSEMBLY, COMPOSITE | 1        | Prop    | primed                     |
| SPINNER       | 106040F1    | SPINNER ASSEMBLY, COMPOSITE | 1        | Prop    | painted white              |
| SPINNER       | 106040F2    | SPINNER ASSEMBLY, COMPOSITE | 1        | Prop    | painted silver             |
| GOVERNOR      | S-1-73      | GOVERNOR ASSEMBLY, S-1-73   | 1        | Prop    |                            |
| SPIN MTG KIT  | A-2476-14   | SPINNER - MTG KIT           | 1        | Prop    | use with 106040( ) spinner |
| MTG BOLT/STUD | A-2067      | STUD, MOUNTING, 1/2-20      | 6        | Prop    |                            |

CubCrafters

**Model:** CCEX3/FX3  
**Trade Name:** Carbon Cub EX3/FX3  
**Aircraft T.C./STC:** Experimental  
**Propeller Model:** HC-C2YR-1NW  
**Propeller T.C.:** P-920  
**Blade Model(s):** NG8301W-3  
**Prop Diameter:** 80"

**IDS No.:** 3537      **Rev.:** 1      **IC Date:** 02/14/2020

**Modifier:**  
**Engine Model:** CC363i  
**Power:** 185 HP @ 2700 RPM  
**Placard/Restr:** None  
**Notes:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** 11.5 +/- 0.2  
**Stud Protrusion**

**Startlock Angle:**  
**Feather/High Angle:** 30 +/- 1.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type     | Item Number | Description                 | Quantity | Qty Per | Comments                   |
|---------------|-------------|-----------------------------|----------|---------|----------------------------|
| PROPELLER     | C2R80120    | HC-C2YR-1NW/NG8301W-3/SM14  | 1        | A/C     |                            |
| BLADE         | NG8301W-3   | PCP:BLADE ASSY, COMPOSITE   | 2        | Prop    |                            |
| SPINNER       | 106040      | SPINNER ASSEMBLY, COMPOSITE | 1        | Prop    | primed                     |
| SPINNER       | 106040F1    | SPINNER ASSEMBLY, COMPOSITE | 1        | Prop    | painted white              |
| SPINNER       | 106040F2    | SPINNER ASSEMBLY, COMPOSITE | 1        | Prop    | painted silver             |
| GOVERNOR      | S-1-73      | GOVERNOR ASSEMBLY, S-1-73   | 1        | Prop    |                            |
| SPIN MTG KIT  | A-2476-14   | SPINNER - MTG KIT           | 1        | Prop    | use with 106040( ) spinner |
| MTG BOLT/STUD | A-2067      | STUD, MOUNTING, 1/2-20      | 6        | Prop    |                            |

# HARTZELL

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CubCrafters

IDS No.: 3760 Rev.: - IC Date: 06/24/2020

Model: CCX-2300  
 Trade Name: Carbon Cub (EX, FX)  
 Aircraft T.C./STC: Experimental  
 Propeller Model: 3C1-R430A1W  
 Propeller T.C.: P00016CH  
 Blade Model(s): 80C01W-4  
 Prop Diameter: 76"

Modifier:  
 Engine Model: IO-390-D3B6 (CC393i)  
 Power: 215 HP @ 2700 RPM  
 Placard/Restr: None  
 Notes:

**Prop Setup:**

Ref. Radius: 30  
 Reverse Angle:  
 Low Pitch Angle: 10.9 +/- 0.2  
 Stud Protrusion

Startlock Angle:  
 Feather/High Angle: 27.5 +/- 0.5  
 Cwt Angle:

**Non-HPI Items:**

Non-HPI Spinner:

Non-HPI Governor:

**Hartzell Approved Items:**

| Item Type     | Item Number | Description                   | Quantity | Qty Per | Comments |
|---------------|-------------|-------------------------------|----------|---------|----------|
| PROPELLER     | 3CR00422    | 3C1-R430A1W/80C01W-4/SM17     | 1        | A/C     |          |
| BLADE         | 80C01W-4    | PCP:BLADE ASSEMBLY, COMPOSITE | 3        | Prop    |          |
| SPINNER       | 107974      | SPINNER ASSEMBLY, COMPOSITE   | 1        | A/C     | Primer   |
| SPINNER       | 107974F1    | SPINNER ASSEMBLY, COMPOSITE   | 1        | A/C     | White    |
| SPINNER       | 107974F2    | SPINNER ASSEMBLY, COMPOSITE   | 1        | A/C     | Silver   |
| GOVERNOR      | S-1-73      | GOVERNOR ASSEMBLY, S-1-73     | 1        | A/C     |          |
| SPIN MTG KIT  | A-2476-17   | SPINNER - MTG KIT             | 1        | Prop    |          |
| MTG BOLT/STUD | A-2067      | STUD, MOUNTING, 1/2-20        | 6        | Prop    |          |

CubCrafters

IDS No.: 3762 Rev.: - IC Date: 06/24/2020

Model: CCX-2300  
 Trade Name: Carbon Cub (EX, FX)  
 Aircraft T.C./STC: Experimental  
 Propeller Model: 3C1-R430A1W  
 Propeller T.C.: P00016CH  
 Blade Model(s): 80C01W  
 Prop Diameter: 80"

Modifier:  
 Engine Model: IO-390-D3B6 (CC393i)  
 Power: 215 HP @ 2700 RPM  
 Placard/Restr: None  
 Notes:

**Prop Setup:**

Ref. Radius: 30  
 Reverse Angle:  
 Low Pitch Angle: 10.9 +/- 0.2  
 Stud Protrusion

Startlock Angle:  
 Feather/High Angle: 27.5 +/- 0.5  
 Cwt Angle:

**Non-HPI Items:**

Non-HPI Spinner:

Non-HPI Governor:

**Hartzell Approved Items:**

| Item Type     | Item Number | Description                   | Quantity | Qty Per | Comments |
|---------------|-------------|-------------------------------|----------|---------|----------|
| PROPELLER     | 3CR00424    | 3C1-R430A1W/80C01W/SM17       | 1        | A/C     |          |
| BLADE         | 80C01W      | PCP:BLADE ASSEMBLY, COMPOSITE | 3        | Prop    |          |
| SPINNER       | 107974      | SPINNER ASSEMBLY, COMPOSITE   | 1        | A/C     | Primer   |
| SPINNER       | 107974F1    | SPINNER ASSEMBLY, COMPOSITE   | 1        | A/C     | White    |
| SPINNER       | 107974F2    | SPINNER ASSEMBLY, COMPOSITE   | 1        | A/C     | Silver   |
| GOVERNOR      | S-1-73      | GOVERNOR ASSEMBLY, S-1-73     | 1        | A/C     |          |
| SPIN MTG KIT  | A-2476-17   | SPINNER - MTG KIT             | 1        | Prop    |          |
| MTG BOLT/STUD | A-2067      | STUD, MOUNTING, 1/2-20        | 6        | Prop    |          |



# HARTZELL

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CubCrafters

**Model:** EX-3/FX-3  
**Trade Name:** Carbon Cub  
**Aircraft T.C./STC:** Experimental  
**Propeller Model:** HC-C2YR-1NW  
**Propeller T.C.:**  
**Blade Model(s):**  
**Prop Diameter:** 76"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** 12.8 +/- 0.2  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**IDS No.:** 3736 **Rev.:** - **IC** **Date:** 02/14/2020

**Modifier:**  
**Engine Model:** IO-390-D3B6 (CC393i)  
**Power:** 215 HP @ 2700 RPM  
**Placard/Restr:** None  
**Notes:**

**Startlock Angle:**  
**Feather/High Angle:** 29.5 +/- 0.5  
**Cwt Angle:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type     | Item Number | Description                 | Quantity | Qty Per | Comments |
|---------------|-------------|-----------------------------|----------|---------|----------|
| #Error        | NG8301W-7   | PCP: BLADE ASSY, COMPOSITE  | 2        | Prop    |          |
| #Error        | S-1-73      | GOVERNOR ASSEMBLY, S-1-73   | 1        | A/C     |          |
| PROPELLER     | C2R80130    | HC-C2YR-1NW/NG8301W-7/SM14  | 1        | A/C     |          |
| SPINNER       | 106040      | SPINNER ASSEMBLY, COMPOSITE | 1        | Prop    |          |
| SPINNER       | 106040F1    | SPINNER ASSEMBLY, COMPOSITE | 1        | Prop    |          |
| SPINNER       | 106040F2    | SPINNER ASSEMBLY, COMPOSITE | 1        | Prop    |          |
| SPIN MTG KIT  | A-2476-14   | SPINNER - MTG KIT           | 1        | Prop    |          |
| MTG BOLT/STUD | A-2067      | STUD, MOUNTING, 1/2-20      | 6        | Prop    |          |

CubCrafters

**Model:** EX-3/FX-3  
**Trade Name:** Carbon Cub  
**Aircraft T.C./STC:** Experimental  
**Propeller Model:** 3C1-R430A1X  
**Propeller T.C.:**  
**Blade Model(s):** 80C01-4X  
**Prop Diameter:** 76"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** 10.9 +/- 0.2  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**IDS No.:** 3737 **Rev.:** - **IC** **Date:** 02/14/2020

**Modifier:**  
**Engine Model:** IO-390-D3B6 (CC393i)  
**Power:** 215 HP @ 2700 RPM  
**Placard/Restr:** None  
**Notes:** Remove TC, PC and assembly S/N from hub. Remove PC from blades.

**Startlock Angle:**  
**Feather/High Angle:** 27.5 +/- 0.5  
**Cwt Angle:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type     | Item Number | Description                   | Quantity | Qty Per | Comments |
|---------------|-------------|-------------------------------|----------|---------|----------|
| PROPELLER     | 3CR00420X   | 3C1-R430A1X/80C01-4X/SM17     | 1        | A/C     |          |
| BLADE         | 80C01-4X    | PCP:BLADE ASSEMBLY, COMPOSITE | 3        | Prop    |          |
| SPINNER       | 107974X     | SPINNER ASSEMBLY, COMPOSITE   | 1        | Prop    |          |
| GOVERNOR      | S-1-73      | GOVERNOR ASSEMBLY, S-1-73     | 1        | A/C     |          |
| SPIN MTG KIT  | A-2476-17   | SPINNER - MTG KIT             | 1        | Prop    |          |
| MTG BOLT/STUD | A-2067      | STUD, MOUNTING, 1/2-20        | 6        | Prop    |          |

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# HARTZELL

D.F.L HOLDINGS

**Model:** TANGO  
**Trade Name:**  
**Aircraft T.C./STC:** Experimental  
**Propeller Model:** HC-C2YR-1BF  
**Propeller T.C.:** P-920

**Blade Model(s):** F7666A  
**Prop Diameter:** 76"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.0 +-0.1  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>           | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|------------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | C2R00019           | HC-C2YR-1BF/F7666A/SM4       | 1               | A/C            |                          |
| BLADE            | F7666A             | PCP:BLADE UNIT, ALUM [1,1,1] | 2               | Prop           |                          |
| SPINNER          | C-3568-P           | SPINNER ASSEMBLY             | 1               | Prop           |                          |
| SPIN MTG KIT     | A-2476-4           | SPINNER - MTG KIT            | 1               | Prop           |                          |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20       | 6               | Prop           |                          |
| OVERHAUL KIT     | HC-C2YR-1BF-OH     | O/H KIT                      | 1               | Prop           | For aftermarket use only |

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**IDS No.:** 1197      **Rev.:** 1      **IC**      **Date:** 07/07/2015

**Modifier:**  
**Engine Model:** O-360-A1A  
**Power:** 180 HP @ 2700 RPM  
**Placard/Restr:** Avoid continuous operation between 2000 and 2350 RPM.

### **Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 31.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

# HARTZELL

## APPLICATION GUIDE 159

Daher

IDS No.: 3770      Rev.: 6      IC      Date: 07/26/2022

**Model:** TBM 700  
**Trade Name:** TBM 960  
**Aircraft T.C./STC:** A60EU  
**Propeller Model:** 5D31-NK366B1  
**Propeller T.C.:** P00015CH  
**Blade Model(s):** 86DB01B  
**Prop Diameter:** 91"

**Modifier:**  
**Engine Model:** PT6E-66XT  
**Power:** 895 HP @ 1925 RPM  
**Placard/Restr:**  
**Notes:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** -9.3° +/- 0.5°  
**Low Pitch Angle:** 19.5° +/- 0.1°  
**Stud Protrusion**

**Startlock Angle:**  
**Feather/High Angle:** 86.1° +/- 0.5°  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u>            | <u>Item Number</u> | <u>Description</u>                     | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>           |
|-----------------------------|--------------------|--|-----------------|----------------|---------------------------|
| PROPELLER                   | 5DN01125S          | 5D31-NK366B1/86DB01B/SPIN              | 1               | A/C            |                           |
| PROPELLER                   | 5DN01125SKD        | 5D31-NK366B1/86DB01B/SPIN              | 1               | A/C            |                           |
| BLADE                       | 86DB01B            | PCP:BLADE ASSY,COMP. [3,1,20]          | 5               | Prop           |                           |
| SPINNER                     | 108167             | SPINNER ASSEMBLY                       | 1               | Prop           |                           |
| SPINNER                     | 108167P            | SPINNER ASSEMBLY                       | 1               | Prop           |                           |
| SP MT KIT DE-ICE            | A-2070-11          | SCREW, 1/4-28, BUTTON HEAD             | 10              | Prop           |                           |
| COUNTERWEIGHT               | 105425             | PCP:COUNTERWEIGHT                      | 1               | Blade          |                           |
| COUNTERWEIGHT SLUG A-1712   |                    | BOLT,3/8-24,HEX HEAD                   | 1               | Blade          |                           |
| COUNTERWEIGHT SLUG A-1713   |                    | PCP: SLUG, COUNTERWEIGHT               | 2               | Blade          |                           |
| COUNTERWEIGHT SLUG A-2043-1 |                    | NUT,3/8-24,HEX,SELF-LOCKING            | 1               | Blade          |                           |
| DE-ICER                     | 102197-1           | DE-ICE BOOT                            | 1               | Blade          |                           |
| DE-ICE KIT PR               | 107570             | DE-ICE KIT (ONE PROP)                  | 1               | Prop           |                           |
| DE-ICE KIT A/F              | 105068             | AIRFRAME DE-ICE KIT                    | 1               | A/C            |                           |
| MTG BOLT/STUD               | 107957             | NUT, MOUNTING, CRES, 9/16-18, 12-POINT | 8               | Prop           | SUPERCEDES 107585 MTG NUT |

# HARTZELL

## APPLICATION GUIDE 159

Daher Kodiak Aircraft Engineering

IDS No.: 3698 Rev.: 9 IC Date: 08/22/2022

**Model:** Kodiak 200  
**Trade Name:** Kodiak 900  
**Aircraft T.C./STC:** A00007SE  
**Propeller Model:** HC-E5W-3(Y)  
**Propeller T.C.:** P20NE

**Modifier:**  
**Engine Model:** PT6A-140A  
**Power:** 900 HP @ 1900 RPM  
**Placard/Restr:** Stabilized ground operation is prohibited between 400 and 1150 RPM

**Blade Model(s):** NC9405B  
 NC9405B\*1

**Notes:**

**Prop Diameter:** 97.0

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** -10.0 +/- 0.5  
**Low Pitch Angle:** 18.5 +/- 0.1  
**Stud Protrusion:** 1.400 +/- .020 (with 106943 mgt spacer installed)

**Startlock Angle:** 1.6 +/- 0.1 (-3Y ONLY)

**Feather/High Angle:** 88.6 +/- 0.5

**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type     | Item Number | Description                      | Quantity | Qty Per | Comments                             |
|---------------|-------------|----------------------------------|----------|---------|--------------------------------------|
| PROPELLER     | E5W00205S   | HC-E5W-3/NC9405B*1/106940-1P     | 1        | A/C     |                                      |
| PROPELLER     | E5W00205SKD | HC-E5W-3/NC9405B*1/106940-1P     | 1        | A/C     |                                      |
| PROPELLER     | E5W00210S   | HC-E5W-3/NC9405B/106940P         | 1        | A/C     |                                      |
| PROPELLER     | E5W00210SKD | HC-E5W-3/NC9405B/106940P         | 1        | A/C     |                                      |
| PROPELLER     | E5W00212S   | HC-E5W-3Y/NC9405B/106940P        | 1        | A/C     |                                      |
| PROPELLER     | E5W00212SKD | HC-E5W-3Y/NC9405B/106940P        | 1        | A/C     |                                      |
| BLADE         | NC9405B     | PCP: BLADE ASSEMBLY, COMPOSITE   | 5        | Prop    | For use with anti-iced propeller     |
| BLADE         | NC9405B*1   | PCP: BLADE ASSEMBLY, COMPOSITE   | 5        | Prop    |                                      |
| SPINNER       | 106940      | SPINNER ASSEMBLY                 | 1        | Prop    | For use with anti-iced propeller     |
| SPINNER       | 106940-1    | SPINNER ASSEMBLY                 | 1        | Prop    | For use with NON anti-iced propeller |
| SPINNER       | 106940-1P   | SPINNER ASSEMBLY                 | 1        | Prop    | For use with NON anti-iced propeller |
| SPINNER       | 106940P     | SPINNER ASSEMBLY                 | 1        | Prop    | For use with anti-iced propeller     |
| SPIN MTG KIT  | B-3384-7H   | BOLT, 1/4-28, HEX HEAD           | 10       | Prop    |                                      |
| SPIN MTG KIT  | B-3851-0432 | WASHER                           | 10       | Prop    |                                      |
| COUNTERWEIGHT | 105604      | PCP:COUNTERWEIGHT                | 1        | Blade   |                                      |
| DE-ICER       | 107081      | BOOT, ANTI-ICING                 | 1        | Blade   |                                      |
| DE-ICER       | 108452      | FAIRING, RUBBER                  | 1        | Blade   |                                      |
| DE-ICE KIT PR | 107016      | ANTI-ICE KIT (ONE PROP)          | 1        | Prop    |                                      |
| MTG BOLT/STUD | 104720      | STUD, MOUNTING, 9/16-18          | 8        | Prop    |                                      |
| MTG BOLT/STUD | C-6006      | NUT, MOUNTING, 9/16-18, 12 POINT | 8        | Prop    |                                      |

# HARTZELL

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DE HAVILLAND

**Model:** DH104  
**Trade Name:** DOVE  
**Aircraft T.C./STC:** STC-SA168SO  
**Propeller Model:** HC-A3VK-2A  
**Propeller T.C.:** P6EA  
**Blade Model(s):** V8433-4R  
V8433N-4R  
**Prop Diameter:** 80.6"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.0 +-0.1  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 2169      **Rev.:** -      **DM Date:** 11/20/2003

**Modifier:** RILEY TURBOSTREAM  
**Engine Model:** IO-720-A1A  
**Power:** 400 HP @ 2650 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 82.0 +-1.0  
**Cwt Angle:** Positive

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>            | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|-------------------------------|-----------------|----------------|-----------------|
| BLADE            | V8433-4R           | BLADE                         | 3               | Prop           |                 |
| BLADE            | V8433N-4R          | BLADE                         | 3               | Prop           |                 |
| SPINNER          | C-2513-2P          | SPINNER ASSEMBLY              | 1               | Prop           |                 |
| GOVERNOR         | F6-4               | IDS Item                      | 1               | Prop           |                 |
| MTG BOLT/STUD    | A-1328             | BOLT,MOUNTING,1/2-20,12 POINT | 3               | Prop           |                 |
| MTG BOLT/STUD    | A-1333-3           | BOLT,MOUNTING,1/2-20,HEX HEAD | 3               | Prop           |                 |

DE HAVILLAND

**Model:** DH104  
**Trade Name:** DOVE  
**Aircraft T.C./STC:** STC-SA168SO  
**Propeller Model:** HC-A3MVK-2A  
**Propeller T.C.:** P6EA  
**Blade Model(s):** MV8433N-4R  
**Prop Diameter:** 80.6"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.0 +-0.1  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 453      **Rev.:** 1      **D Date:** 01/07/2011

**Modifier:** RILEY TURBOSTREAM  
**Engine Model:** IO-720-A1A  
**Power:** 400 HP @ 2650 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 82.0 +-1.0  
**Cwt Angle:** Positive

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>            | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|-------------------------------|-----------------|----------------|-----------------|
| BLADE            | MV8433N-4R         | PCP:BLADE UNIT, ALUMINUM      | 3               | Prop           |                 |
| SPINNER          | C-2513-2P          | SPINNER ASSEMBLY              | 1               | Prop           |                 |
| GOVERNOR         | F6-4               | IDS Item                      | 2               | A/C            |                 |
| MTG BOLT/STUD    | A-1328             | BOLT,MOUNTING,1/2-20,12 POINT | 3               | Prop           |                 |
| MTG BOLT/STUD    | A-1333-3           | BOLT,MOUNTING,1/2-20,HEX HEAD | 3               | Prop           |                 |

# HARTZELL

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DE HAVILLAND

**Model:** DH114  
**Trade Name:** HERON  
**Aircraft T.C./STC:** STC-SA816WE  
**Propeller Model:** not procurable  
**Propeller T.C.:**  
**Blade Model(s):**  
**Prop Diameter:** 76.6"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.7 +/-0.1  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 455      **Rev.:** -      **DM Date:** 05/16/1998

**Modifier:** CHARLES SCHACHLE  
**Engine Model:** GYPSY QUEEN 30MK-2  
**Power:** 250 HP @ 2500 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 83.0 +/-1.0  
**Cwt Angle:** Positive

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u> | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|--------------------|-----------------|----------------|-----------------|
| SPINNER          | 836-35LS           | IDS Item           | 1               | Prop           |                 |

DE HAVILLAND

**Model:** DH114  
**Trade Name:** HERON  
**Aircraft T.C./STC:** STC-SA629SO  
**Propeller Model:** HC-83XK-2A, HC-A3XK-2A  
**Propeller T.C.:** P6EA  
**Blade Model(s):** 8433-7  
**Prop Diameter:** 74.6"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 14.0 +/-0.1  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 2170      **Rev.:** -      **DM Date:** 11/20/2003

**Modifier:** RILEY TURBOSTREAM  
**Engine Model:** IO-540-G1B5  
**Power:** 290 HP @ 2575 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 79.5 +/-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>            | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|-------------------------------|-----------------|----------------|-----------------|
| BLADE            | 8433-7             | BLADE                         | 3               | Prop           |                 |
| SPINNER          | C-2513-2P          | SPINNER ASSEMBLY              | 1               | Prop           |                 |
| GOVERNOR         | F6-4               | IDS Item                      | 1               | Prop           |                 |
| MTG BOLT/STUD    | A-1328             | BOLT,MOUNTING,1/2-20,12 POINT | 3               | Prop           |                 |
| MTG BOLT/STUD    | A-1333-3           | BOLT,MOUNTING,1/2-20,HEX HEAD | 3               | Prop           |                 |

# HARTZELL

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DE HAVILLAND

**Model:** DH114  
**Trade Name:** HERON  
**Aircraft T.C./STC:** STC-SA629SO  
**Propeller Model:** HC-83VK-2A, HC-A3VK-2A  
**Propeller T.C.:** P6EA  
**Blade Model(s):** V8433-7  
V8433N-7  
**Prop Diameter:** 74.6"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 14.0 +-0.1  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 2171      **Rev.:** -      **DM Date:** 11/20/2003

**Modifier:** RILEY TURBOSTREAM  
**Engine Model:** IO-540-G1B5  
**Power:** 290 HP @ 2575 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 79.5 +-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>            | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|-------------------------------|-----------------|----------------|-----------------|
| BLADE            | V8433-7            | BLADE                         | 3               | Prop           |                 |
| BLADE            | V8433N-7           | BLADE                         | 3               | Prop           |                 |
| SPINNER          | C-2513-2P          | SPINNER ASSEMBLY              | 1               | Prop           |                 |
| GOVERNOR         | F6-4               | IDS Item                      | 1               | Prop           |                 |
| MTG BOLT/STUD    | A-1328             | BOLT,MOUNTING,1/2-20,12 POINT | 3               | Prop           |                 |
| MTG BOLT/STUD    | A-1333-3           | BOLT,MOUNTING,1/2-20,HEX HEAD | 3               | Prop           |                 |

DE HAVILLAND

**Model:** DH114  
**Trade Name:** HERON  
**Aircraft T.C./STC:** STC-SA629SO  
**Propeller Model:** HC-A3MVK-2A  
**Propeller T.C.:** P6EA  
**Blade Model(s):** MV8433N-7  
**Prop Diameter:** 74.6"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 14.0 +-0.1  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 454      **Rev.:** 1      **D Date:** 01/07/2011

**Modifier:** RILEY TURBOSTREAM  
**Engine Model:** IO-540-G1B5  
**Power:** 290 HP @ 2575 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 79.5 +-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>            | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|-------------------------------|-----------------|----------------|-----------------|
| BLADE            | MV8433N-7          | PCP:BLADE UNIT, ALUMINUM      | 3               | Prop           |                 |
| SPINNER          | C-2513-2P          | SPINNER ASSEMBLY              | 1               | Prop           |                 |
| GOVERNOR         | F6-4               | IDS Item                      | 2               | A/C            |                 |
| MTG BOLT/STUD    | A-1328             | BOLT,MOUNTING,1/2-20,12 POINT | 3               | Prop           |                 |
| MTG BOLT/STUD    | A-1333-3           | BOLT,MOUNTING,1/2-20,HEX HEAD | 3               | Prop           |                 |



# HARTZELL

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**DE HAVILLAND**

**Model:** DH114  
**Trade Name:** HERON (MODIFIED)  
**Aircraft T.C./STC:** Unknown  
**Propeller Model:** HC-B3TN-3DY  
**Propeller T.C.:** P15EA  
**Blade Model(s):** T10178B-11\*3  
 T10178NB-11\*3  
**Prop Diameter:** 90.5"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** -11.0 +-0.5  
**Low Pitch Angle:** 19.0 +-0.1  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type                      | Item Number   | Description                       | Quantity | Qty Per | Comments  |
|--------------------------------|---------------|-----------------------------------|----------|---------|-----------|
| BLADE                          | T10178B-11*3  | IDS ITEM, BLADE                   | 3        | Prop    |           |
| BLADE                          | T10178NB-11*3 | IDS ITEM, BLADE                   | 3        | Prop    |           |
| SPINNER                        | C-3065-1P     | SPINNER ASSEMBLY                  | 1        | Prop    |           |
| COUNTERWEIGHT SLUG A-3039      |               | SLUG, COUNTERWEIGHT               | 1        | Blade   |           |
| COUNTERWEIGHT SLUG A-890-6     |               | PCP:SLUG, COUNTERWEIGHT           | 1        | Blade   | Primary   |
| COUNTERWEIGHT SLUG A-890-8     |               | PCP:SLUG, COUNTERWEIGHT           | 1        | Blade   | Alternate |
| COUNTERWEIGHT SLUG A-890-9     |               | PCP:SLUG, COUNTERWEIGHT           | 1        | Blade   | Alternate |
| COUNTERWEIGHT SLUG B-3384-21H  |               | BOLT, 1/4-28, HEX HEAD            | 2        | Blade   |           |
| COUNTERWEIGHT SLUG B-3851-0432 |               | WASHER                            | 2        | Blade   | Optional  |
| COUNTERWEIGHT SLUG B-3851-0463 |               | WASHER                            | 2        | Blade   | Optional  |
| MTG BOLT/STUD                  | B-3339        | BOLT, MOUNTING, 9/16-18, 12 POINT | 8        | Prop    |           |

**IDS No.:** 457      **Rev.:** 2      **D**      **Date:** 06/04/2013

**Modifier:** SAUNDERS (ST-27)  
**Engine Model:** PT6A-27  
**Power:** 620 HP @ 2200 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** 0.5 +-0.5  
**Feather/High Angle:** 85.5 +-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:**

**DE HAVILLAND**

**Model:** DH114  
**Trade Name:** HERON (MODIFIED)  
**Aircraft T.C./STC:** Unknown  
**Propeller Model:** HC-B4TN-3A  
**Propeller T.C.:** P40EA  
**Blade Model(s):** T10173F-12.5  
 T10173FN-12.5  
**Prop Diameter:** 90"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** -11.0 +-0.5  
**Low Pitch Angle:** 19.0 +-0.1  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number   | Description                       | Quantity | Qty Per | Comments |
|---------------|---------------|-----------------------------------|----------|---------|----------|
| BLADE         | T10173F-12.5  | BLADE                             | 4        | Prop    |          |
| BLADE         | T10173FN-12.5 | PCP:BLADE UNIT, ALUMINUM          | 4        | Prop    |          |
| SPINNER       | C-3425        | SPINNER ASSEMBLY                  | 1        | Prop    |          |
| MTG BOLT/STUD | B-3339        | BOLT, MOUNTING, 9/16-18, 12 POINT | 8        | Prop    |          |

**IDS No.:** 458      **Rev.:** -      **DM**      **Date:** 01/09/2004

**Modifier:** SAUNDERS (ST-27B)  
**Engine Model:** PT6A-34  
**Power:** 750 HP @ 2024 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 87.0 +-1.0  
**Cwt Angle:** Unknown

**Non-HPI Governor:**

# HARTZELL

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DE HAVILLAND CANADA

IDS No.: 3292 Rev.: 3 IC Date: 06/27/2019

**Model:** DHC-6-100  
**Trade Name:** Twin Otter  
**Aircraft T.C./STC:** (Canada) SA99-14  
**Propeller Model:** HC-B3TN-3D(Y)  
**Propeller T.C.:** P15EA  
**Blade Model(s):** T10282N  
 T10282NB\*2  
**Prop Diameter:** 102.0" TO 100"

**Modifier:** Kenn Borek Air Ltd.  
**Engine Model:** PT6A-27  
**Power:** 620 HP @ 2110 RPM  
**Placard/Restr:**  
**Notes:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** -15.0 +/-0.5  
**Low Pitch Angle:** 11.0 +/-0.2  
**Stud Protrusion**

**Startlock Angle:** 1.0+/-1.0 (used only for -3DY props)  
**Feather/High Angle:** 87.0 +/-0.5  
**Cwt Angle:** -1.5 TO POS.

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type                      | Item Number     | Description                            | Quantity | Qty Per | Comments   |
|--------------------------------|-----------------|--|----------|---------|--|
| PROPELLER                      | B3N10462S       | HC-B3TN-3D/T10282N/C-3065-1P           | 2        | A/C     | No de-ice, no start locks                                  |
| PROPELLER                      | B3N10463S       | HC-B3TN-3D/T10282NB[*2/3065-1P         | 2        | A/C     | w/ de-ice, no start locks                                  |
| PROPELLER                      | B3N10588S       | HC-B3TN-3DY/T10282N/C-3065-1P          | 2        | A/C     | No de-ice, w/ start locks                                  |
| PROPELLER                      | B3N10589S       | HC-B3TN-3DY/T10282NB*2/3065-1P         | 2        | A/C     | w/ de-ice and start locks                                  |
| BLADE                          | T10282N         | PCP:BLADE UNIT, ALUMINUM               | 3        | Prop    |  |
| BLADE                          | T10282NB*2      | PCP:BLADE UNIT, ALUM 4H1188-5          | 3        | Prop    |  |
| SPINNER                        | C-3065-1        | SPINNER ASSEMBLY                       | 1        | Prop    |  |
| SPINNER                        | C-3065-1P       | SPINNER ASSEMBLY                       | 1        | Prop    |  |
| SP MT KIT DE-ICE               | A-2070-10       | SCREW, 1/4-28, BUTTON HEAD             | 3        | Prop    |  |
| SP MT KIT DE-ICE               | A-2070-7        | SCREW, 1/4-28, BUTTON HEAD             | 6        | Prop    |  |
| SP MT KIT DE-ICE               | A-2070-9        | SCREW, 1/4-28, BUTTON HEAD             | 3        | Prop    |  |
| SP MT KIT DE-ICE               | B-3808-4        | NUT,HEX,SELF-LOCKING                   | 12       | Prop    |  |
| SP MT KIT DE-ICE               | B-3837-0432     | WASHER, CORROSION RESISTANT            | 12       | Prop    |  |
| SP MT KIT DE-ICE               | B-7077-52       | BELLEVILLE SPRING WASHER               | 12       | Prop    |  |
| COUNTERWEIGHT SLUG A-3039      |                 | SLUG, COUNTERWEIGHT                    | 1        | Blade   |  |
| COUNTERWEIGHT SLUG A-890-6     |                 | PCP:SLUG, COUNTERWEIGHT                | 1        | Blade   | Primary  |
| COUNTERWEIGHT SLUG A-890-8     |                 | PCP:SLUG, COUNTERWEIGHT                | 1        | Blade   | Alternate  |
| COUNTERWEIGHT SLUG A-890-9     |                 | PCP:SLUG, COUNTERWEIGHT                | 1        | Blade   | Alternate  |
| COUNTERWEIGHT SLUG B-3384-21H  |                 | BOLT, 1/4-28, HEX HEAD                 | 2        | Blade   |  |
| COUNTERWEIGHT SLUG B-3851-0432 |                 | WASHER                                 | 2        | Blade   | Optional   |
| COUNTERWEIGHT SLUG B-3851-0463 |                 | WASHER                                 | 2        | Blade   | Optional   |
| DE-ICER                        | 4H1188-5        | DE-ICE BOOT                            | 1        | Blade   | Supersedes 7931-4E1188-5                                   |
| DE-ICE KIT PR                  | 7931-65-090-1   | DE-ICE KIT (ONE PROP, W/ START-LOCKS)  | 1        | Prop    | De-ice kit used With startlocks                            |
| DE-ICE KIT PR                  | 7931-65-090-1*  | DE-ICE KIT (ONE PROP, W/O START LOCKS) | 1        | Prop    | De-Ice Kit used W/O startlocks                             |
| MTG BOLT/STUD                  | B-3339          | BOLT, MOUNTING, 9/16-18, 12 POINT      | 8        | Prop    |  |
| MISC ACCES                     | A-4731          | BLOCK, BETA FEEDBACK- ASSEMBLY         | 2        | Prop    |  |
| OVERHAUL KIT                   | 65-090-1-OH*1   | DE-ICE O/H KIT, 4H1188-5 BOOT          | 1        | Prop    | For aftermarket use only(KIT FOR PROP WITH START LOCKS)    |
| OVERHAUL KIT                   | 65-090-1-OH*3   | DE-ICE O/H KIT, 4H1188-5 BOOT          | 1        | Prop    | For aftermarket use only(KIT FOR PROP WITHOUT START LOCKS) |
| OVERHAUL KIT                   | HC-B3TN-3DY-OH2 | O/H KIT, A-4731 CARBON BLOCK           | 1        | Prop    | For aftermarket use only                                   |

# HARTZELL

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DE HAVILLAND CANADA

IDS No.: 1788      Rev.: 4      IC      Date: 07/17/2019

**Model:** DHC-2  
**Trade Name:** BOSS BEAVER  
**Aircraft T.C./STC:** SA01186CH  
**Propeller Model:** HC-B3TN-3DY  
**Propeller T.C.:** P15EA  
**Blade Model(s):** T10282N\*1  
**Prop Diameter:** 102.0" TO 100.0"

**Modifier:** WIPAIRE, INC  
**Engine Model:** PT6A-27, 28  
**Power:** 650 HP @ 2200 RPM  
**Placard/Restr:**  
**Notes:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** -15.0 +-0.5  
**Low Pitch Angle:** 21.0 +-0.1  
**Stud Protrusion**

**Startlock Angle:** 1.0 +-1.0  
**Feather/High Angle:** 87.0 +-1.0  
**Cwt Angle:** -1.5 TO POS.

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type                      | Item Number | Description                       | Quantity | Qty Per | Comments  |
|--------------------------------|-------------|-----------------------------------|----------|---------|-----------|
| PROPELLER                      | B3N10581    | HC-B3TN-3DY/T10282N[*1]           | 1        | A/C     |           |
| PROPELLER                      | B3N10581S   | HC-B3TN-3DY/T10282N[*1]/3065-1P   | 1        | A/C     |           |
| PROPELLER                      | B3N10581SKD | HC-B3TN-3DY/T10282N[*1]/3065-1P   | 1        | A/C     |           |
| BLADE                          | T10282N*1   | PCP:BLADE UNIT, ALUM [3,3,1]      | 3        | Prop    |           |
| SPINNER                        | C-3065-1P   | SPINNER ASSEMBLY                  | 1        | Prop    |           |
| SPIN MTG KIT                   | B-3384-4H   | BOLT, 1/4-28, HEX HEAD            | 6        | Prop    |           |
| SPIN MTG KIT                   | B-3808-4    | NUT,HEX,SELF-LOCKING              | 12       | Prop    |           |
| SPIN MTG KIT                   | B-3851-0432 | WASHER                            | 24       | Prop    |           |
| COUNTERWEIGHT SLUG A-3039      |             | SLUG, COUNTERWEIGHT               | 1        | Blade   |           |
| COUNTERWEIGHT SLUG A-890-6     |             | PCP:SLUG, COUNTERWEIGHT           | 1        | Blade   | Primary   |
| COUNTERWEIGHT SLUG A-890-8     |             | PCP:SLUG, COUNTERWEIGHT           | 1        | Blade   | Alternate |
| COUNTERWEIGHT SLUG A-890-9     |             | PCP:SLUG, COUNTERWEIGHT           | 1        | Blade   | Alternate |
| COUNTERWEIGHT SLUG B-3384-21H  |             | BOLT, 1/4-28, HEX HEAD            | 2        | Blade   |           |
| COUNTERWEIGHT SLUG B-3851-0432 |             | WASHER                            | 2        | Blade   | Optional  |
| COUNTERWEIGHT SLUG B-3851-0463 |             | WASHER                            | 2        | Blade   | Optional  |
| MTG BOLT/STUD                  | B-3339      | BOLT, MOUNTING, 9/16-18, 12 POINT | 8        | Prop    |           |
| MISC ACCES                     | A-4731      | BLOCK, BETA FEEDBACK- ASSEMBLY    | 2        | Prop    |           |

# HARTZELL

DE HAVILLAND CANADA

**Model:** DHC-2 MKI  
**Trade Name:** BEAVER  
**Aircraft T.C./STC:** STC-SA590NW  
**Propeller Model:** HC-B3R30-1  
**Propeller T.C.:** P28EA  
**Blade Model(s):** R10152-5.5  
R10152N-5.5  
**Prop Diameter:** 95.5" NO CUT OFF

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** 15.0 +-0.1  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>        | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>         |
|------------------|--------------------|---------------------------|-----------------|----------------|-------------------------|
| BLADE            | R10152-5.5         | PCP:BLADE UNIT, ALUMINUM  | 3               | Prop           | Replaced by R10152N-5.5 |
| BLADE            | R10152N-5.5        | PCP:BLADE UNIT, ALUMINUM  | 3               | Prop           |                         |
| SPINNER          | 104368             | SPINNER ASSEMBLY          | 1               | Prop           |                         |
| SPINNER          | 104368P            | SPINNER ASSEMBLY          | 1               | Prop           |                         |
| SPINNER          | 836-32PR           | SPINNER ASSEMBLY          | 1               | Prop           |                         |
| SPINNER          | 836-32R            | IDS Item                  | 1               | Prop           |                         |
| MTG BOLT/STUD    | B-1894             | PCP: NUT,SHAFT, 30 SPLINE | 1               | Prop           |                         |

## APPLICATION GUIDE

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**IDS No.:** 461      **Rev.:** 2      **D**      **Date:** 02/18/2014

**Modifier:** KENMORE AIR HARBOR  
**Engine Model:** R985  
**Power:** 450 HP @ 2300 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:**  
**Feather/High Angle:** 38.1 +-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:**

# HARTZELL

## APPLICATION GUIDE

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DE HAVILLAND CANADA

IDS No.: 460 Rev.: 3 IC Date: 07/07/2015

**Model:** DHC-2 MKI  
**Trade Name:** BEAVER  
**Aircraft T.C./STC:** STC-SA398NW  
**Propeller Model:** HC-B3R30-4B  
**Propeller T.C.:** P28EA  
**Blade Model(s):** R10152-5.5  
R10152N-5.5  
**Prop Diameter:** 95.5" NO CUT OFF

**Modifier:** KENMORE AIR HARBOR  
**Engine Model:** R985  
**Power:** 450 HP @ 2300 RPM  
**Placard/Restr:**  
**Notes:**

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 15.0 +-0.2  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 38.1 +-2.0  
**Cwt Angle:** Positive

### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>         | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|----------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | B3300077           | HC-B3R30-4B/R10152N-5.5    | 1               | A/C            |                          |
| BLADE            | R10152-5.5         | PCP:BLADE UNIT, ALUMINUM   | 3               | Prop           | REPLACED BY R10152N-5.5  |
| BLADE            | R10152N-5.5        | PCP:BLADE UNIT, ALUMINUM   | 3               | Prop           |                          |
| SPINNER          | 104368             | SPINNER ASSEMBLY           | 1               | Prop           |                          |
| SPINNER          | 104368P            | SPINNER ASSEMBLY           | 1               | Prop           |                          |
| SPINNER          | 836-32PR           | SPINNER ASSEMBLY           | 1               | Prop           |                          |
| SPINNER          | 836-32R            | IDS Item                   | 1               | Prop           |                          |
| GOVERNOR         | C4                 | GOVERNOR ASSEMBLY, C-4-( ) | 1               | A/C            |                          |
| MTG BOLT/STUD    | B-1894             | PCP: NUT,SHAFT, 30 SPLINE  | 1               | Prop           |                          |
| OVERHAUL KIT     | HC-B3R30-4B-OH     | O/H KIT                    | 1               | Prop           | For aftermarket use only |

# HARTZELL

## APPLICATION GUIDE 159

DE HAVILLAND CANADA

IDS No.: 462      Rev.: 3      IC      Date: 06/29/2021

**Model:** DHC-2 MKI  
**Trade Name:** BEAVER  
**Aircraft T.C./STC:** STC-SA709GL  
**Propeller Model:** HC-B3R30-4, -4A, -4B  
**Propeller T.C.:** P28EA  
**Blade Model(s):** R10152-5.5  
                                  R10152N-5.5  
**Prop Diameter:** 95.5" NO CUT OFF

**Modifier:** WIPAIR INC  
**Engine Model:** R985  
**Power:** 450 HP @ 2300 RPM  
**Placard/Restr:**  
**Notes:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 15.0 +-0.2  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 38.1 +-2.0  
**Cwt Angle:** Positive

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>         | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|----------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | B3300078           | HC-B3R30-4B/R10152N-5.5    | 1               | A/C            |                          |
| PROPELLER        | B3300078KD         | HC-B3R30-4B/R10152N-5.5    | 1               | A/C            |                          |
| BLADE            | R10152-5.5         | PCP:BLADE UNIT, ALUMINUM   | 3               | Prop           | REPLACED BY R10152N-5.5  |
| BLADE            | R10152N-5.5        | PCP:BLADE UNIT, ALUMINUM   | 3               | Prop           |                          |
| SPINNER          | 104368             | SPINNER ASSEMBLY           | 1               | Prop           |                          |
| SPINNER          | 104368P            | SPINNER ASSEMBLY           | 1               | Prop           |                          |
| SPINNER          | 836-32PR           | SPINNER ASSEMBLY           | 1               | Prop           |                          |
| GOVERNOR         | C4                 | GOVERNOR ASSEMBLY, C-4-( ) | 1               | A/C            |                          |
| MTG BOLT/STUD    | B-1894             | PCP: NUT,SHAFT, 30 SPLINE  | 1               | Prop           |                          |
| OVERHAUL KIT     | HC-B3R30-4B-OH     | O/H KIT                    | 1               | Prop           | For aftermarket use only |

# HARTZELL

## APPLICATION GUIDE

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DE HAVILLAND CANADA

IDS No.: 459 Rev.: 3 IC Date: 11/25/2019

**Model:** DHC-2 MKIII  
**Trade Name:** TURBO BEAVER  
**Aircraft T.C./STC:** A806  
**Propeller Model:** HC-B3TN-3, -3B, -3BY  
**Propeller T.C.:** P15EA  
**Blade Model(s):** T10173C+1  
 T10173CN+1  
**Prop Diameter:** 102.5" TO 100.0"

**Modifier:**  
**Engine Model:** PT6A-6A,-20  
**Power:** 550 HP @ 2200 RPM  
**Placard/Restr:**  
**Notes:** Fit (2) A-4731 carbon blocks.

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** -14.5 +-1.5  
**Low Pitch Angle:** 15.0 +-0.1  
**Stud Protrusion**

**Startlock Angle:** 1.0 +-1.0  
**Feather/High Angle:** 87.0 +-0.5  
**Cwt Angle:** POSITIVE (-1.5 TO POS., PT6A-20)

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type                      | Item Number     | Description                       | Quantity | Qty Per | Comments                                       |
|--------------------------------|-----------------|-----------------------------------|----------|---------|--|
| PROPELLER                      | B3N10226        | HC-B3TN-3BY/T10173CN+1            | 1        | A/C     |  |
| BLADE                          | T10173C+1       | BLADE                             | 3        | Prop    |  |
| BLADE                          | T10173CN+1      | PCP:BLADE UNIT, ALUMINUM          | 3        | Prop    |  |
| SPINNER                        | C-3065-1P       | SPINNER ASSEMBLY                  | 1        | Prop    |  |
| SPIN MTG KIT                   | B-3384-4H       | BOLT, 1/4-28, HEX HEAD            | 6        | Prop    |  |
| SPIN MTG KIT                   | B-3384-5H       | BOLT, 1/4-28, HEX HEAD            | 3        | Prop    | Replaces (3) B-3384-4H when using start locks. |
| SPIN MTG KIT                   | B-3384-8H       | BOLT, 1/4-28, HEX HEAD            | 3        | Prop    | Replaces (3) B-3384-4H when using start locks. |
| SPIN MTG KIT                   | B-3808-4        | NUT,HEX,SELF-LOCKING              | 12       | Prop    |  |
| SPIN MTG KIT                   | B-3851-0432     | WASHER                            | 24       | Prop    |  |
| COUNTERWEIGHT SLUG A-3039      |                 | SLUG, COUNTERWEIGHT               | 1        | Blade   |  |
| COUNTERWEIGHT SLUG A-890-8     |                 | PCP:SLUG, COUNTERWEIGHT           | 1        | Blade   |  |
| COUNTERWEIGHT SLUG B-3384-18H  |                 | BOLT, 1/4-28, HEX HEAD            | 2        | Blade   |  |
| COUNTERWEIGHT SLUG B-3851-0432 |                 | WASHER                            | 2        | Blade   | Optional                                       |
| COUNTERWEIGHT SLUG B-3851-0463 |                 | WASHER                            | 2        | Blade   | Optional                                       |
| MTG BOLT/STUD                  | B-3339          | BOLT, MOUNTING, 9/16-18, 12 POINT | 8        | Prop    |  |
| MISC ACCES                     | A-4731          | BLOCK, BETA FEEDBACK- ASSEMBLY    | 2        | Prop    |  |
| OVERHAUL KIT                   | HC-B3TN-3BY-OH2 | O/H KIT, A-4731 CARBON BLOCK      | 1        | Prop    | For aftermarket use only                       |

# HARTZELL

## APPLICATION GUIDE

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DE HAVILLAND CANADA

IDS No.: 463      Rev.: 1      D      Date: 06/04/2013

**Model:** DHC-2 MKIII  
**Trade Name:** BEAVER  
**Aircraft T.C./STC:** STC SA620NE  
**Propeller Model:** HC-B3TN-3D  
**Propeller T.C.:** P15EA  
**Blade Model(s):** T10282N  
                           T10282NB\*5  
                           T10282NK  
**Prop Diameter:** 102.0" TO 100.0"

**Modifier:** VIKING AIR LTD.  
**Engine Model:** PT6A-27, -15AG, -34  
**Power:** 680 HP @ 2200 RPM  
**Placard/Restr:**  
**Notes:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** -15.0 +/-0.5  
**Low Pitch Angle:** 21.0 +/-0.2

**Startlock Angle:**  
**Feather/High Angle:** 87.0 +/-0.5  
**Cwt Angle:** -1.5 TO POS.

**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u>               | <u>Item Number</u> | <u>Description</u>                | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|--------------------------------|--------------------|-----------------------------------|-----------------|----------------|-----------------|
| BLADE                          | T10282N            | PCP:BLADE UNIT, ALUMINUM          | 3               | Prop           |                 |
| BLADE                          | T10282NB*5         | IDS Item                          | 3               | Prop           |                 |
| BLADE                          | T10282NK           | IDS ITEM, BLADE                   | 3               | Prop           |                 |
| COUNTERWEIGHT SLUG A-3039      |                    | SLUG, COUNTERWEIGHT               | 1               | Blade          |                 |
| COUNTERWEIGHT SLUG A-890-6     |                    | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          | Primary         |
| COUNTERWEIGHT SLUG A-890-8     |                    | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          | Alternate       |
| COUNTERWEIGHT SLUG A-890-9     |                    | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          | Alternate       |
| COUNTERWEIGHT SLUG B-3384-21H  |                    | BOLT, 1/4-28, HEX HEAD            | 2               | Blade          |                 |
| COUNTERWEIGHT SLUG B-3851-0432 |                    | WASHER                            | 2               | Blade          | Optional        |
| COUNTERWEIGHT SLUG B-3851-0463 |                    | WASHER                            | 2               | Blade          | Optional        |
| MTG BOLT/STUD                  | B-3339             | BOLT, MOUNTING, 9/16-18, 12 POINT | 8               | Prop           |                 |



# HARTZELL

## APPLICATION GUIDE 159

DE HAVILLAND CANADA

IDS No.: 1566 Rev.: 2 IC Date: 01/15/2016

**Model:** DHC-2 MKIII  
**Trade Name:** BEAVER  
**Aircraft T.C./STC:** STC SA620NE  
**Propeller Model:** HC-B3TN-3DY  
**Propeller T.C.:** P15EA  
**Blade Model(s):** T10282N  
 T10282NB\*5  
 T10282NK  
**Prop Diameter:** 102.0" TO 100.0"

**Modifier:** VIKING AIR LTD.  
**Engine Model:** PT6A-27, -15AG, -34  
**Power:** 680 HP @ 2200 RPM  
**Placard/Restr:**  
**Notes:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** -15.0 +-0.5  
**Low Pitch Angle:** 21.0 +-0.2  
**Stud Protrusion**

**Startlock Angle:** 1.0 +-1.0  
**Feather/High Angle:** 87.0 +-0.5  
**Cwt Angle:** -1.5 TO POS.

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type                      | Item Number | Description                       | Quantity | Qty Per | Comments  |
|--------------------------------|-------------|-----------------------------------|----------|---------|-----------|
| PROPELLER                      | B3N10530    | HC-B3TN-3DY/T10282N/BULKHEAD      | 1        | A/C     |           |
| BLADE                          | T10282N     | PCP:BLADE UNIT, ALUMINUM          | 3        | Prop    |           |
| BLADE                          | T10282NB*5  | IDS Item                          | 3        | Prop    |           |
| BLADE                          | T10282NK    | IDS ITEM, BLADE                   | 3        | Prop    |           |
| SPINNER                        | C-3065-1    | SPINNER ASSEMBLY                  | 1        | A/C     |           |
| SPINNER                        | C-3065-1P   | SPINNER ASSEMBLY                  | 1        | A/C     |           |
| SPIN MTG KIT                   | B-3384-4H   | BOLT, 1/4-28, HEX HEAD            | 6        | Prop    |           |
| SPIN MTG KIT                   | B-3808-4    | NUT,HEX,SELF-LOCKING              | 12       | Prop    |           |
| SPIN MTG KIT                   | B-3851-0432 | WASHER                            | 24       | Prop    |           |
| COUNTERWEIGHT SLUG A-3039      |             | SLUG, COUNTERWEIGHT               | 1        | Blade   |           |
| COUNTERWEIGHT SLUG A-890-6     |             | PCP:SLUG, COUNTERWEIGHT           | 1        | Blade   | Primary   |
| COUNTERWEIGHT SLUG A-890-8     |             | PCP:SLUG, COUNTERWEIGHT           | 1        | Blade   | Alternate |
| COUNTERWEIGHT SLUG A-890-9     |             | PCP:SLUG, COUNTERWEIGHT           | 1        | Blade   | Alternate |
| COUNTERWEIGHT SLUG B-3384-21H  |             | BOLT, 1/4-28, HEX HEAD            | 2        | Blade   |           |
| COUNTERWEIGHT SLUG B-3851-0432 |             | WASHER                            | 2        | Blade   | Optional  |
| COUNTERWEIGHT SLUG B-3851-0463 |             | WASHER                            | 2        | Blade   | Optional  |
| MTG BOLT/STUD                  | B-3339      | BOLT, MOUNTING, 9/16-18, 12 POINT | 8        | Prop    |           |

# HARTZELL

## APPLICATION GUIDE

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DE HAVILLAND CANADA

IDS No.: 1575 Rev.: - DM Date: 03/10/2003

**Model:** DHC-2 MKIII  
**Trade Name:** BEAVER  
**Aircraft T.C./STC:** STC SA620NE, SA4326NM  
**Propeller Model:** HC-B3TN-3BY  
**Propeller T.C.:** P15EA  
**Blade Model(s):** T10173CN+1  
**Prop Diameter:** 102.5"

**Modifier:** VIKING AIR LTD.  
**Engine Model:** PT6A-27, -15AG, -34  
**Power:** 680 HP @ 2200 RPM  
**Placard/Restr:**  
**Notes:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** -14.5 +-0.5  
**Low Pitch Angle:** 15.0 +-0.2

**Startlock Angle:** 1.0 +-1.0  
**Feather/High Angle:** 87.0 +-0.5  
**Cwt Angle:** POSITIVE

**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u>               | <u>Item Number</u> | <u>Description</u>                | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|--------------------------------|--------------------|-----------------------------------|-----------------|----------------|-----------------|
| BLADE                          | T10173CN+1         | PCP:BLADE UNIT, ALUMINUM          | 3               | Prop           |                 |
| SPINNER                        | C-3065-1           | SPINNER ASSEMBLY                  | 1               | Prop           |                 |
| SPINNER                        | C-3065-1P          | SPINNER ASSEMBLY                  | 1               | Prop           |                 |
| COUNTERWEIGHT SLUG A-3039      |                    | SLUG, COUNTERWEIGHT               | 1               | Blade          |                 |
| COUNTERWEIGHT SLUG A-890-8     |                    | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          |                 |
| COUNTERWEIGHT SLUG B-3384-18H  |                    | BOLT, 1/4-28, HEX HEAD            | 2               | Blade          |                 |
| COUNTERWEIGHT SLUG B-3851-0432 |                    | WASHER                            | 2               | Blade          | Optional        |
| COUNTERWEIGHT SLUG B-3851-0463 |                    | WASHER                            | 2               | Blade          | Optional        |
| MTG BOLT/STUD                  | B-3339             | BOLT, MOUNTING, 9/16-18, 12 POINT | 8               | Prop           |                 |

# HARTZELL

## APPLICATION GUIDE 159

DE HAVILLAND CANADA

IDS No.: 465      Rev.: 2      D      Date: 06/04/2013

**Model:** DHC-2 MKIII  
**Trade Name:** TURBO BEAVER  
**Aircraft T.C./STC:** STC-SA3684NM  
**Propeller Model:** HC-B3TN-3(D)(Y)  
**Propeller T.C.:** P15EA  
**Blade Model(s):** T10282  
                                  T10282N  
**Prop Diameter:** 102.0" TO 100"

**Modifier:** KENMORE AIR HARBOR  
**Engine Model:** PT6A-135(A)  
**Power:** 600 HP @ 1900 RPM  
**Placard/Restr:**  
**Notes:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** -15.0 +-0.5  
**Low Pitch Angle:** 20.0 +-0.1  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 87.0 +-1.0  
**Cwt Angle:** -1.5 TO POS.

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u>               | <u>Item Number</u> | <u>Description</u>                | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|--------------------------------|--------------------|-----------------------------------|-----------------|----------------|-----------------|
| BLADE                          | T10282             | BLADE                             | 3               | Prop           |                 |
| BLADE                          | T10282N            | PCP:BLADE UNIT, ALUMINUM          | 3               | Prop           |                 |
| COUNTERWEIGHT SLUG A-3039      |                    | SLUG, COUNTERWEIGHT               | 1               | Blade          |                 |
| COUNTERWEIGHT SLUG A-890-6     |                    | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          | Primary         |
| COUNTERWEIGHT SLUG A-890-8     |                    | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          | Alternate       |
| COUNTERWEIGHT SLUG A-890-9     |                    | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          | Alternate       |
| COUNTERWEIGHT SLUG B-3384-21H  |                    | BOLT, 1/4-28, HEX HEAD            | 2               | Blade          |                 |
| COUNTERWEIGHT SLUG B-3851-0432 |                    | WASHER                            | 2               | Blade          | Optional        |
| COUNTERWEIGHT SLUG B-3851-0463 |                    | WASHER                            | 2               | Blade          | Optional        |
| MTG BOLT/STUD                  | B-3339             | BOLT, MOUNTING, 9/16-18, 12 POINT | 8               | Prop           |                 |

# HARTZELL

## APPLICATION GUIDE

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DE HAVILLAND CANADA

IDS No.: 1146 Rev.: - DM Date: 01/09/2004

**Model:** DHC-2 MKIII  
**Trade Name:** BEAVER  
**Aircraft T.C./STC:** Unknown  
**Propeller Model:** HC-B3TN-3B  
**Propeller T.C.:** P15EA  
**Blade Model(s):** T10173C+1  
T10173CN+1  
**Prop Diameter:** 102.5"

**Modifier:** VIKING AIR LTD.  
**Engine Model:** PT6A-27, -15AG, -34  
**Power:** 680 HP @ 2200 RPM  
**Placard/Restr:**  
**Notes:**

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** -14.5 +-0.5  
**Low Pitch Angle:** 15.0 +-0.2  
**Stud Protrusion**

**Startlock Angle:**  
**Feather/High Angle:** 87.0 +-0.5  
**Cwt Angle:** POSITIVE

### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u>               | <u>Item Number</u> | <u>Description</u>                | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|--------------------------------|--------------------|-----------------------------------|-----------------|----------------|-----------------|
| BLADE                          | T10173C+1          | BLADE                             | 3               | Prop           |                 |
| BLADE                          | T10173CN+1         | PCP:BLADE UNIT, ALUMINUM          | 3               | Prop           |                 |
| SPINNER                        | C-3065-1           | SPINNER ASSEMBLY                  | 1               | Prop           |                 |
| SPINNER                        | C-3065-1P          | SPINNER ASSEMBLY                  | 1               | Prop           |                 |
| COUNTERWEIGHT SLUG A-3039      |                    | SLUG, COUNTERWEIGHT               | 1               | Blade          |                 |
| COUNTERWEIGHT SLUG A-890-8     |                    | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          |                 |
| COUNTERWEIGHT SLUG B-3384-18H  |                    | BOLT, 1/4-28, HEX HEAD            | 2               | Blade          |                 |
| COUNTERWEIGHT SLUG B-3851-0432 |                    | WASHER                            | 2               | Blade          | Optional        |
| COUNTERWEIGHT SLUG B-3851-0463 |                    | WASHER                            | 2               | Blade          | Optional        |
| MTG BOLT/STUD                  | B-3339             | BOLT, MOUNTING, 9/16-18, 12 POINT | 8               | Prop           |                 |

# HARTZELL

## APPLICATION GUIDE 159

DE HAVILLAND CANADA

IDS No.: 3868      Rev.: -      IC      Date: 06/17/2022

**Model:** DHC-3  
**Trade Name:** OTTER  
**Aircraft T.C./STC:** STC SA3777NM  
**Propeller Model:** HC-B3TN-3DY  
**Propeller T.C.:** P15EA  
**Blade Model(s):** T10282  
T10282N  
**Prop Diameter:** 102.0" to 100.5"

**Modifier:** Vazar (prev. Serv-Aero)  
**Engine Model:** PT6A-34, PT6A-34AG  
**Power:** 750 HP @ 2200 RPM  
**Placard/Restr:** None.

**Notes:**

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** -15.0 +-0.5  
**Low Pitch Angle:** 21.0 +-0.1  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 87.0 +-1.0  
**Cwt Angle:** -1.5 TO POS.

### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u>               | <u>Item Number</u> | <u>Description</u>                | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|--------------------------------|--------------------|-----------------------------------|-----------------|----------------|-----------------|
| BLADE                          | T10282             | BLADE                             | 3               | Prop           |                 |
| BLADE                          | T10282N            | PCP:BLADE UNIT, ALUMINUM          | 3               | Prop           |                 |
| SPINNER                        | D-3434-12P         | SPINNER ASSEMBLY                  | 1               | Prop           |                 |
| COUNTERWEIGHT SLUG A-3039      |                    | SLUG, COUNTERWEIGHT               | 1               | Blade          |                 |
| COUNTERWEIGHT SLUG A-890-6     |                    | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          | Primary         |
| COUNTERWEIGHT SLUG A-890-8     |                    | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          | Alternate       |
| COUNTERWEIGHT SLUG A-890-9     |                    | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          | Alternate       |
| COUNTERWEIGHT SLUG B-3384-21H  |                    | BOLT, 1/4-28, HEX HEAD            | 2               | Blade          |                 |
| COUNTERWEIGHT SLUG B-3851-0432 |                    | WASHER                            | 2               | Blade          | Optional        |
| COUNTERWEIGHT SLUG B-3851-0463 |                    | WASHER                            | 2               | Blade          | Optional        |
| MTG BOLT/STUD                  | B-3339             | BOLT, MOUNTING, 9/16-18, 12 POINT | 8               | Prop           |                 |

# HARTZELL

## APPLICATION GUIDE 159

DE HAVILLAND CANADA

IDS No.: 466      Rev.: 4      IC      Date: 12/10/2019

**Model:** DHC-3  
**Trade Name:** OTTER  
**Aircraft T.C./STC:** STC SA3777NM  
**Propeller Model:** HC-B3TN-3DY  
**Propeller T.C.:** P15EA  
**Blade Model(s):** T10282  
                                  T10282N  
**Prop Diameter:** 102.0" to 100.5"

**Modifier:** Vazar  
**Engine Model:** PT6A-135, PT6A-135A  
**Power:** 750 HP @ 1900 RPM  
**Placard/Restr:**  
**Notes:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** -15.0 +-0.5  
**Low Pitch Angle:** 21.0 +-0.1  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 87.0 +-1.0  
**Cwt Angle:** -1.5 TO POS.

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u>               | <u>Item Number</u> | <u>Description</u>                | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|--------------------------------|--------------------|-----------------------------------|-----------------|----------------|-----------------|
| BLADE                          | T10282             | BLADE                             | 3               | Prop           |                 |
| BLADE                          | T10282N            | PCP:BLADE UNIT, ALUMINUM          | 3               | Prop           |                 |
| SPINNER                        | D-3434-12P         | SPINNER ASSEMBLY                  | 1               | Prop           |                 |
| COUNTERWEIGHT SLUG A-3039      |                    | SLUG, COUNTERWEIGHT               | 1               | Blade          |                 |
| COUNTERWEIGHT SLUG A-890-6     |                    | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          | Primary         |
| COUNTERWEIGHT SLUG A-890-8     |                    | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          | Alternate       |
| COUNTERWEIGHT SLUG A-890-9     |                    | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          | Alternate       |
| COUNTERWEIGHT SLUG B-3384-21H  |                    | BOLT, 1/4-28, HEX HEAD            | 2               | Blade          |                 |
| COUNTERWEIGHT SLUG B-3851-0432 |                    | WASHER                            | 2               | Blade          | Optional        |
| COUNTERWEIGHT SLUG B-3851-0463 |                    | WASHER                            | 2               | Blade          | Optional        |
| MTG BOLT/STUD                  | B-3339             | BOLT, MOUNTING, 9/16-18, 12 POINT | 8               | Prop           |                 |

# HARTZELL

## APPLICATION GUIDE

159

DE HAVILLAND CANADA

IDS No.: 1698 Rev.: 4 IC Date: 01/27/2020

Model: DHC-3  
 Trade Name: OTTER  
 Aircraft T.C./STC: STC-SA09866SC  
 Propeller Model: HC-B4TN-5NL  
 Propeller T.C.: P40EA

Modifier: TEXAS TURBINES  
 Engine Model: TPE-331-10  
 Power: 900 HP @ 1591 RPM  
 Placard/Restr: Stabilized ground operation is prohibited below 1081 (68%) rpm and between 1352 (85%) and 1464 (92%) rpm.

Blade Model(s): LT10890N\*1  
 Prop Diameter: 109.5" TO 107.5"

Notes: Blades are to have tip stripes on camber side only; uses 831-73 spring assembly

### Prop Setup:

Ref. Radius: 42  
 Reverse Angle: -11.5 +-0.5  
 Low Pitch Angle: NA  
 Stud Protrusion

Startlock Angle: -1.4 TO -5.5 +-0.1

Feather/High Angle: 81.2 +-0.5

Cwt Angle: 2.0 +-1.0

### Non-HPI Items:

Non-HPI Spinner:

Non-HPI Governor:

### Hartzell Approved Items:

| Item Type                      | Item Number    | Description                       | Quantity | Qty Per | Comments                 |
|--------------------------------|----------------|-----------------------------------|----------|---------|--------------------------|
| PROPELLER                      | B4N10983       | HC-B4TN-5NL/LT10890N[*1]          | 1        | A/C     |                          |
| PROPELLER                      | B4N10983S      | HC-B4TN-5NL/LT10890N[*1]/+SPIN    | 1        | A/C     |                          |
| PROPELLER                      | B4N10983SKD    | HC-B4TN-5NL/LT10890N[*1]/+SPIN    | 1        | A/C     |                          |
| BLADE                          | LT10890N*1     | PCP:BLADE UNIT, ALUM [1,1,1]      | 4        | Prop    |                          |
| SPINNER                        | D-3434-7P      | SPINNER ASSEMBLY                  | 1        | Prop    |                          |
| COUNTERWEIGHT SLUG A-890-8     |                | PCP:SLUG, COUNTERWEIGHT           | 1        | Blade   |                          |
| COUNTERWEIGHT SLUG B-3384-9H   |                | BOLT, 1/4-28, HEX HEAD            | 2        | Blade   |                          |
| COUNTERWEIGHT SLUG B-3386-14H  |                | BOLT, 3/8-24, HEX HEAD            | 2        | Blade   |                          |
| COUNTERWEIGHT SLUG B-3663-1    |                | PCP:SLUG, COUNTERWEIGHT           | 1        | Blade   |                          |
| COUNTERWEIGHT SLUG B-3834-0632 |                | WASHER                            | 2        | Blade   |                          |
| COUNTERWEIGHT SLUG B-3851-0432 |                | WASHER                            | 2        | Blade   | Optional                 |
| COUNTERWEIGHT SLUG B-3851-0463 |                | WASHER                            | 2        | Blade   | Optional                 |
| MTG BOLT/STUD                  | B-3339         | BOLT, MOUNTING, 9/16-18, 12 POINT | 8        | Prop    |                          |
| OVERHAUL KIT                   | HC-B4TN-5NL-OH | O/H KIT                           | 1        | Prop    | For aftermarket use only |

# HARTZELL

## APPLICATION GUIDE

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DE HAVILLAND CANADA

IDS No.: 3867      Rev.: -      IC      Date: 06/17/2022

**Model:** DHC-3  
**Trade Name:** OTTER  
**Aircraft T.C./STC:** STC-SA3777NM  
**Propeller Model:** HC-B3TN-3DY  
**Propeller T.C.:** P15EA  
**Blade Model(s):** T10282+4\*1  
    T10282N+4\*1  
**Prop Diameter:** 106.5" to 100.5"

**Modifier:** Vazar (prev. Serv-Aero)  
**Engine Model:** PT6A-34, PT6A-34AG  
**Power:** 750 HP @ 2200 RPM  
**Placard/Restr:** None.

**Notes:** Start lock angle is set with blades within .2 degrees of each other. Fit two A-4731 Carbon Block Assemblies; Aircraft are modified by Vazar.

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** -15.0 +-0.5  
**Low Pitch Angle:** 21.0 +-0.1  
**Stud Protrusion**

**Startlock Angle:** 1.0 +-1.0  
**Feather/High Angle:** 87.0 +-1.0  
**Cwt Angle:** -1.5 TO POS.

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type                      | Item Number     | Description                       | Quantity | Qty Per | Comments  |
|--------------------------------|-----------------|-----------------------------------|----------|---------|---|
| PROPELLER                      | B3N10595        | HC-B3TN-3DY/T10282N+4[*1]         | 1        | A/C     |   |
| PROPELLER                      | B3N10595KD      | HC-B3TN-3DY/T10282N+4[*1]         | 1        | A/C     |   |
| PROPELLER                      | B3N10595S       | HC-B3TN-3DY/T10282N+4[*1]         | 1        | A/C     |   |
| BLADE                          | T10282+4*1      | IDS*ITEM, BLADE, [3,1,1]          | 3        | Prop    |   |
| BLADE                          | T10282N+4*1     | PCP:BLADE UNIT, ALUM [3,3,1]      | 3        | Prop    |   |
| SPINNER                        | D-3434-12P      | SPINNER ASSEMBLY                  | 1        | Prop    |   |
| SPIN MTG KIT                   | B-3384-4H       | BOLT, 1/4-28, HEX HEAD            | 6        | Prop    |   |
| SPIN MTG KIT                   | B-3384-5H       | BOLT, 1/4-28, HEX HEAD            | 3        | Prop    | Optional in lieu of the B-3384-6H bolt (Use appropriate length screw/washer configuration to maintain clearance with clamp) |
| SPIN MTG KIT                   | B-3384-6H       | BOLT, 1/4-28, HEX HEAD            | 3        | Prop    | Optional in lieu of the B-3384-5H bolt (Use appropriate length screw/washer configuration to maintain clearance with clamp) |
| SPIN MTG KIT                   | B-3384-8H       | BOLT, 1/4-28, HEX HEAD            | 3        | Prop    |   |
| SPIN MTG KIT                   | B-3808-4        | NUT,HEX,SELF-LOCKING              | 12       | Prop    |   |
| SPIN MTG KIT                   | B-3851-0432     | WASHER                            | 24       | Prop    |   |
| COUNTERWEIGHT SLUG A-3039      |                 | SLUG, COUNTERWEIGHT               | 1        | Blade   |   |
| COUNTERWEIGHT SLUG A-890-6     |                 | PCP:SLUG, COUNTERWEIGHT           | 1        | Blade   | Primary   |
| COUNTERWEIGHT SLUG A-890-8     |                 | PCP:SLUG, COUNTERWEIGHT           | 1        | Blade   | Alternate   |
| COUNTERWEIGHT SLUG A-890-9     |                 | PCP:SLUG, COUNTERWEIGHT           | 1        | Blade   | Alternate   |
| COUNTERWEIGHT SLUG B-3384-21H  |                 | BOLT, 1/4-28, HEX HEAD            | 2        | Blade   |   |
| COUNTERWEIGHT SLUG B-3851-0432 |                 | WASHER                            | 2        | Blade   | Optional  |
| COUNTERWEIGHT SLUG B-3851-0463 |                 | WASHER                            | 2        | Blade   | Optional  |
| MTG BOLT/STUD                  | B-3339          | BOLT, MOUNTING, 9/16-18, 12 POINT | 8        | Prop    |   |
| MISC ACCES                     | A-4731          | BLOCK, BETA FEEDBACK- ASSEMBLY    | 2        | Prop    |   |
| OVERHAUL KIT                   | HC-B3TN-3DY-OH2 | O/H KIT, A-4731 CARBON BLOCK      | 1        | Prop    | For aftermarket use only  |



# HARTZELL

## APPLICATION GUIDE

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DE HAVILLAND CANADA

IDS No.: 1147 Rev.: 6 IC Date: 12/10/2019

**Model:** DHC-3  
**Trade Name:** OTTER  
**Aircraft T.C./STC:** STC-SA3777NM  
**Propeller Model:** HC-B3TN-3DY  
**Propeller T.C.:** P15EA  
**Blade Model(s):** T10282+4\*1  
 T10282N+4\*1  
**Prop Diameter:** 106.5" to 100.5"

**Modifier:** Vazar  
**Engine Model:** PT6A-135, PT6A-135A  
**Power:** 750 HP @ 1900 RPM  
**Placard/Restr:**

**Notes:** Start lock angle is set with blades within .2 degrees of each other. Fit two A-4731 Carbon Block Assemblies; Aircraft are modified by Vazar.

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** -15.0 +-0.5  
**Low Pitch Angle:** 21.0 +-0.1  
**Stud Protrusion**

**Startlock Angle:** 1.0 +-1.0  
**Feather/High Angle:** 87.0 +-1.0  
**Cwt Angle:** -1.5 TO POS.

### Non-HPI Items:

Non-HPI Spinner:

Non-HPI Governor:

### Hartzell Approved Items:

| Item Type                      | Item Number     | Description                       | Quantity | Qty Per | Comments  |
|--------------------------------|-----------------|-----------------------------------|----------|---------|---|
| PROPELLER                      | B3N10595        | HC-B3TN-3DY/T10282N+4[*1]         | 1        | A/C     |   |
| PROPELLER                      | B3N10595KD      | HC-B3TN-3DY/T10282N+4[*1]         | 1        | A/C     |   |
| PROPELLER                      | B3N10595S       | HC-B3TN-3DY/T10282N+4[*1]         | 1        | A/C     |   |
| BLADE                          | T10282+4*1      | IDS*ITEM, BLADE, [3,1,1]          | 3        | Prop    |   |
| BLADE                          | T10282N+4*1     | PCP:BLADE UNIT, ALUM [3,3,1]      | 3        | Prop    |   |
| SPINNER                        | D-3434-12P      | SPINNER ASSEMBLY                  | 1        | Prop    |   |
| SPIN MTG KIT                   | B-3384-4H       | BOLT, 1/4-28, HEX HEAD            | 6        | Prop    |   |
| SPIN MTG KIT                   | B-3384-5H       | BOLT, 1/4-28, HEX HEAD            | 3        | Prop    | Optional in lieu of the B-3384-6H bolt (Use appropriate length screw/washer configuration to maintain clearance with clamp) |
| SPIN MTG KIT                   | B-3384-6H       | BOLT, 1/4-28, HEX HEAD            | 3        | Prop    | Optional in lieu of the B-3384-5H bolt (Use appropriate length screw/washer configuration to maintain clearance with clamp) |
| SPIN MTG KIT                   | B-3384-8H       | BOLT, 1/4-28, HEX HEAD            | 3        | Prop    |   |
| SPIN MTG KIT                   | B-3808-4        | NUT,HEX,SELF-LOCKING              | 12       | Prop    |   |
| SPIN MTG KIT                   | B-3851-0432     | WASHER                            | 24       | Prop    |   |
| COUNTERWEIGHT SLUG A-3039      |                 | SLUG, COUNTERWEIGHT               | 1        | Blade   |   |
| COUNTERWEIGHT SLUG A-890-6     |                 | PCP:SLUG, COUNTERWEIGHT           | 1        | Blade   | Primary   |
| COUNTERWEIGHT SLUG A-890-8     |                 | PCP:SLUG, COUNTERWEIGHT           | 1        | Blade   | Alternate   |
| COUNTERWEIGHT SLUG A-890-9     |                 | PCP:SLUG, COUNTERWEIGHT           | 1        | Blade   | Alternate   |
| COUNTERWEIGHT SLUG B-3384-21H  |                 | BOLT, 1/4-28, HEX HEAD            | 2        | Blade   |   |
| COUNTERWEIGHT SLUG B-3851-0432 |                 | WASHER                            | 2        | Blade   | Optional  |
| COUNTERWEIGHT SLUG B-3851-0463 |                 | WASHER                            | 2        | Blade   | Optional  |
| MTG BOLT/STUD                  | B-3339          | BOLT, MOUNTING, 9/16-18, 12 POINT | 8        | Prop    |   |
| MISC ACCES                     | A-4731          | BLOCK, BETA FEEDBACK- ASSEMBLY    | 2        | Prop    |   |
| OVERHAUL KIT                   | HC-B3TN-3DY-OH2 | O/H KIT, A-4731 CARBON BLOCK      | 1        | Prop    | For aftermarket use only  |

# HARTZELL

## APPLICATION GUIDE

159

DE HAVILLAND CANADA

IDS No.: 2535 Rev.: 4 IC Date: 04/19/2016

**Model:** DHC-3  
**Trade Name:** OTTER  
**Aircraft T.C./STC:** STC SA02988NY  
**Propeller Model:** HC-B3TN-3DY  
**Propeller T.C.:** P15EA  
**Blade Model(s):** T10282N+4  
**Prop Diameter:** 106.5"

**Modifier:** VIKING AIR LTD.  
**Engine Model:** PT6A-34, PT6A-35  
**Power:** 750 HP @ 2190 RPM  
**Placard/Restr:**

**Notes:** Start lock angle is set with blades within .2 degrees of each other. Fit two A-4731 Carbon Block Assemblies.

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** -8.0 +-0.5  
**Low Pitch Angle:** 18.0 +-0.1  
**Stud Protrusion**

**Startlock Angle:** 1.5 +-1.0  
**Feather/High Angle:** 87.0 +-1.0  
**Cwt Angle:** POSITIVE

### Non-HPI Items:

Non-HPI Spinner:

Non-HPI Governor:

### Hartzell Approved Items:

| <u>Item Type</u>               | <u>Item Number</u> | <u>Description</u>                | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|--------------------------------|--------------------|-----------------------------------|-----------------|----------------|--------------------------|
| PROPELLER                      | B3N10601S          | HC-B3TN-3DY/T10282N+4/C3065-1P    | 1               | A/C            |                          |
| PROPELLER                      | B3N10601SKD        | HC-B3TN-3DY/T10282N+4/C3065-1P    | 1               | Prop           |                          |
| BLADE                          | T10282N+4          | PCP:BLADE UNIT, ALUM [1,1,1]      | 3               | Prop           |                          |
| SPINNER                        | C-3065-1P          | SPINNER ASSEMBLY                  | 1               | Prop           |                          |
| SPIN MTG KIT                   | B-3384-4H          | BOLT, 1/4-28, HEX HEAD            | 6               | Prop           |                          |
| SPIN MTG KIT                   | B-3808-4           | NUT,HEX,SELF-LOCKING              | 12              | Prop           |                          |
| SPIN MTG KIT                   | B-3851-0432        | WASHER                            | 24              | Prop           |                          |
| COUNTERWEIGHT SLUG A-3039      |                    | SLUG, COUNTERWEIGHT               | 1               | Blade          |                          |
| COUNTERWEIGHT SLUG A-890-6     |                    | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          | Primary                  |
| COUNTERWEIGHT SLUG A-890-8     |                    | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          | Alternate                |
| COUNTERWEIGHT SLUG A-890-9     |                    | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          | Alternate                |
| COUNTERWEIGHT SLUG B-3384-21H  |                    | BOLT, 1/4-28, HEX HEAD            | 2               | Blade          |                          |
| COUNTERWEIGHT SLUG B-3851-0432 |                    | WASHER                            | 2               | Blade          | Optional                 |
| COUNTERWEIGHT SLUG B-3851-0463 |                    | WASHER                            | 2               | Blade          | Optional                 |
| MTG BOLT/STUD                  | B-3339             | BOLT, MOUNTING, 9/16-18, 12 POINT | 8               | Prop           |                          |
| MISC ACCES                     | A-4731             | BLOCK, BETA FEEDBACK- ASSEMBLY    | 2               | Prop           |                          |
| OVERHAUL KIT                   | HC-B3TN-3DY-OH2    | O/H KIT, A-4731 CARBON BLOCK      | 1               | Prop           | For aftermarket use only |

# HARTZELL

## APPLICATION GUIDE 159

DE HAVILLAND CANADA

IDS No.: 1792      Rev.: 2      IC      Date: 12/10/2019

**Model:** DHC-3  
**Trade Name:** OTTER  
**Aircraft T.C./STC:** SA3777NM  
**Propeller Model:** HC-B3TN-3AEY  
**Propeller T.C.:** P15EA  
**Blade Model(s):** T10290N+2\*1  
**Prop Diameter:** 104"

**Modifier:** Vazar  
**Engine Model:** PT6A-135, PT6A-135A  
**Power:** 750 HP @ 1900 RPM  
**Placard/Restr:**  
**Notes:**

**Prop Setup:**

**Ref. Radius:** 42  
**Reverse Angle:** -16.0 +-0.5  
**Low Pitch Angle:** 12.0 +-0.1  
**Stud Protrusion**

**Startlock Angle:** 1.0 +-1.0  
**Feather/High Angle:** 78.0 +-1.0  
**Cwt Angle:** Positive

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u>   | <u>Item Number</u> | <u>Description</u>                | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|--------------------|--------------------|-----------------------------------|-----------------|----------------|-----------------|
| PROPELLER          | B3N10550           | HC-B3TN-3AEY/T10290N+2[*1]        | 1               | A/C            |                 |
| PROPELLER          | B3N10550KD         | HC-B3TN-3AEY/T10290N+2[*1]        | 1               | A/C            |                 |
| PROPELLER          | B3N10550S          | HC-B3TN-3AEY/T10290N+2[*1]        | 1               | A/C            |                 |
| BLADE              | T10290N+2*1        | BLADE UNIT, ALUMINUM[3,1,1]       | 3               | Prop           |                 |
| SPINNER            | D-3434-12P         | SPINNER ASSEMBLY                  | 1               | Prop           |                 |
| COUNTERWEIGHT SLUG | B-3386-14H         | BOLT,3/8-24,HEX HEAD              | 2               | Blade          |                 |
| COUNTERWEIGHT SLUG | B-3663-4           | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          |                 |
| COUNTERWEIGHT SLUG | B-3834-0632        | WASHER                            | 2               | Blade          |                 |
| MTG BOLT/STUD      | B-3339             | BOLT, MOUNTING, 9/16-18, 12 POINT | 8               | Prop           |                 |
| MISC ACCES         | A-4731             | BLOCK, BETA FEEDBACK- ASSEMBLY    | 2               | Prop           |                 |

# HARTZELL

## APPLICATION GUIDE 159

DE HAVILLAND CANADA

IDS No.: 468      Rev.: 3      IC      Date: 07/06/2015

**Model:** DHC-4  
**Trade Name:** TURBO CARIBOU  
**Aircraft T.C./STC:** STC ST01294NY  
**Propeller Model:** HC-B5MA-3M  
**Propeller T.C.:** P44GL  
**Blade Model(s):** M11691NK  
**Prop Diameter:** 118.7" TO 118.2"

**Modifier:** PEN TURBO  
**Engine Model:** PT6A-67  
**Power:** 1281 HP @ 1700 RPM  
**Placard/Restr:** refer to vibration approval  
**Notes:**

**Prop Setup:**

**Ref. Radius:** 42  
**Reverse Angle:** -10.0 +-0.5  
**Low Pitch Angle:** 16.9 +-0.1  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 84.0 +-0.5  
**Cwt Angle:** 2.0 +-1.0

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u>   | <u>Item Number</u> | <u>Description</u>             | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|--------------------|--------------------|--------------------------------|-----------------|----------------|--------------------------|
| PROPELLER          | B5A10246           | HC-B5MA-3M/M11691NK            | 2               | A/C            |                          |
| PROPELLER          | B5A10246KD         | HC-B5MA-3M/M11691NK            | 2               | A/C            |                          |
| PROPELLER          | B5A10246S          | HC-B5MA-3M/M11691NK/D-5497-P   | 2               | A/C            |                          |
| PROPELLER          | B5A10246SKD        | HC-B5MA-3M/M11691NK/D-5497-P   | 2               | A/C            |                          |
| BLADE              | M11691NK           | PCP:BLADE UNIT, ALUMINUM       | 5               | Prop           |                          |
| SPINNER            | D-5497-P           | SPINNER ASSEMBLY               | 1               | Prop           |                          |
| SPIN MTG KIT       | B-3384-5H          | BOLT, 1/4-28, HEX HEAD         | 0               | Prop           |                          |
| SPIN MTG KIT       | B-3808-4           | NUT,HEX,SELF-LOCKING           | 0               | Prop           |                          |
| SPIN MTG KIT       | B-3851-0463        | WASHER                         | 0               | Prop           |                          |
| COUNTERWEIGHT SLUG | B-3386-14H         | BOLT,3/8-24,HEX HEAD           | 2               | Blade          |                          |
| COUNTERWEIGHT SLUG | B-3663-5           | SLUG, COUNTERWEIGHT            | 1               | Blade          |                          |
| COUNTERWEIGHT SLUG | B-3834-0632        | WASHER                         | 2               | Blade          |                          |
| DE-ICER            | 4H3101-7           | DE-ICE BOOT, FOIL              | 1               | Prop           | Supersedes 7931-4E3101-7 |
| DE-ICE KIT PR      | 7931-67-934-1      | DE-ICE KIT (ONE PROP)          | 1               | Prop           |                          |
| MTG BOLT/STUD      | B-3347             | BOLT,MOUNTING,9/16-18,12 POINT | 12              | Prop           |                          |
| OVERHAUL KIT       | HC-B5MA-3M-OH      | O/H KIT                        | 1               | Prop           | For aftermarket use only |

# HARTZELL

DE HAVILLAND CANADA

## APPLICATION GUIDE 159

IDS No.: 474      Rev.: 2      IC      Date: 08/14/2015

**Model:** DHC-6-100  
**Trade Name:** TWIN OTTER  
**Aircraft T.C./STC:** Unknown  
**Propeller Model:** HC-D4N-3E  
**Propeller T.C.:** P10NE

**Modifier:** FIELD AVIATION  
**Engine Model:** PT6A-20  
**Power:** 550 HP @ 2200 RPM  
**Placard/Restr:** Stabilized ground operation is prohibited between 440 (20%) and 1056 (43%) RPM.

**Blade Model(s):** D9511FK\*3  
**Prop Diameter:** 96"

**Notes:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** -10.0 +-0.5  
**Low Pitch Angle:** 20.0 +-0.2  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 86.1 +-0.5  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>             | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>           |
|------------------|--------------------|--------------------------------|-----------------|----------------|---------------------------|
| PROPELLER        | D4N00150S          | HC-D4N-3E/D9511FK[*3]/D-630-P  | 2               | A/C            |                           |
| BLADE            | D9511FK*3          | PCP:BLADE UNIT, ALUM 4H2271-10 | 4               | Prop           |                           |
| SPINNER          | D-630-P            | SPINNER ASSEMBLY               | 1               | Prop           |                           |
| SP MT KIT DE-ICE | A-2070-7           | SCREW, 1/4-28, BUTTON HEAD     | 8               | Prop           |                           |
| COUNTERWEIGHT    | C-472-1            | PCP:COUNTERWEIGHT              | 1               | Blade          |                           |
| DE-ICER          | 4H2271-10          | DE-ICE BOOT                    | 1               | Blade          | Supersedes 7931-4E2271-10 |
| DE-ICE KIT PR    | 106299             | DE-ICE KIT (ONE PROP)          | 1               | Prop           | Supersedes 7931-67-645-1  |
| DE-ICE KIT PR    | 7931-67-645-1      | DE-ICE KIT (ONE PROP)          | 1               | Prop           | Superseded by 106299      |
| MTG BOLT/STUD    | B-3339-1           | BOLT,MOUNTING,9/16-18,12 POINT | 8               | Prop           |                           |
| OVERHAUL KIT     | HC-D4N-3E-OH       | O/H KIT                        | 1               | Prop           | For aftermarket use only  |

# HARTZELL

## APPLICATION GUIDE 159

DE HAVILLAND CANADA

IDS No.: 471      Rev.: 2      IC      Date: 08/14/2015

**Model:** DHC-6-300  
**Trade Name:** TWIN OTTER  
**Aircraft T.C./STC:** STC-SA00023NY  
**Propeller Model:** HC-D4N-3E  
**Propeller T.C.:** P10NE

**Modifier:** FIELD AVIATION  
**Engine Model:** PT6A-27  
**Power:** 620 HP @ 2200 RPM  
**Placard/Restr:** Stabilized ground operation is prohibited between 440 (20%) and 1056 (48%) RPM.

**Blade Model(s):** D9511F  
D9511FK\*3  
**Prop Diameter:** 96.0"

**Notes:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** -10.0 +-0.5  
**Low Pitch Angle:** 20.0 +-0.2  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 86.1 +-0.5  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>             | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>           |
|------------------|--------------------|--------------------------------|-----------------|----------------|---------------------------|
| PROPELLER        | D4N00150           | HC-D4N-3E/D9511FK[*3]          | 2               | A/C            |                           |
| PROPELLER        | D4N00152           | HC-D4N-3E/D9511F               | 2               | A/C            |                           |
| PROPELLER        | D4N00152S          | HC-D4N-3E/D9511F/D-630-P       | 2               | A/C            |                           |
| BLADE            | D9511F             | PCP:BLADE UNIT, ALUM [1,1,1]   | 4               | Prop           |                           |
| BLADE            | D9511FK*3          | PCP:BLADE UNIT, ALUM 4H2271-10 | 4               | Prop           |                           |
| SPINNER          | D-630-P            | SPINNER ASSEMBLY               | 1               | Prop           |                           |
| SPIN MTG KIT     | B-3384-2H          | BOLT, 1/4-28, HEX HEAD         | 8               | Prop           |                           |
| SPIN MTG KIT     | B-3851-0432        | WASHER                         | 8               | Prop           |                           |
| SP MT KIT DE-ICE | A-2070-7           | SCREW, 1/4-28, BUTTON HEAD     | 8               | Prop           |                           |
| COUNTERWEIGHT    | C-472-1            | PCP:COUNTERWEIGHT              | 1               | Blade          |                           |
| DE-ICER          | 4H2271-10          | DE-ICE BOOT                    | 1               | Blade          | Supersedes 7931-4E2271-10 |
| DE-ICE KIT PR    | 106299             | DE-ICE KIT (ONE PROP)          | 1               | Prop           | Supersedes 7931-67-645-1  |
| DE-ICE KIT PR    | 7931-67-645-1      | DE-ICE KIT (ONE PROP)          | 1               | Prop           | Superseded by 106299      |
| MTG BOLT/STUD    | B-3339-1           | BOLT,MOUNTING,9/16-18,12 POINT | 8               | Prop           |                           |
| OVERHAUL KIT     | HC-D4N-3E-OH       | O/H KIT                        | 1               | Prop           | For aftermarket use only  |

# HARTZELL

## APPLICATION GUIDE

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DE HAVILLAND CANADA

IDS No.: 473      Rev.: 7      IC Date: 02/01/2016

**Model:** DHC-6-300  
**Trade Name:** TWIN OTTER  
**Aircraft T.C./STC:** STC-SA3532NM  
**Propeller Model:** HC-D4N-3C  
**Propeller T.C.:** P10NE

**Modifier:** RAISBECK  
**Engine Model:** PT6A-27, -34  
**Power:** 620 HP @ 2200 RPM  
**Placard/Restr:** Stabilized ground operation is prohibited below 1100 RPM (50% Np), except with the propeller feathered, operation at or below 400 RPM is permissible.

**Blade Model(s):** D9290K  
**Prop Diameter:** 93" TO 92"

**Notes:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** -9.0 +-0.5  
**Low Pitch Angle:** 20.1 +-0.1  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 84.5 +-0.5  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>             | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>                       |
|------------------|--------------------|--------------------------------|-----------------|----------------|---------------------------------------|
| PROPELLER        | D4N00148           | HC-D4N-3C/D9290K/BULKHEAD/DEIC | 2               | A/C            |                                       |
| PROPELLER        | D4N00148KD         | HC-D4N-3C/D9290K/BULKHEAD/DEIC | 2               | A/C            |                                       |
| PROPELLER        | D4N00148S          | HC-D4N-3C/D9290K/D-630-7P      | 2               | A/C            |                                       |
| PROPELLER        | D4N00148SKD        | HC-D4N-3C/D9290K/D-630-7P      | 2               | A/C            |                                       |
| BLADE            | D9290K             | PCP:BLADE UNIT, ALUM 4H2271-12 | 4               | Prop           |                                       |
| SPINNER          | D-630-7            | SPINNER ASSEMBLY               | 1               | Prop           | w/ dyn bal & univ sync holes          |
| SPINNER          | D-630-7P           | SPINNER ASSEMBLY               | 1               | Prop           | w/ dyn bal & univ sync holes          |
| SPINNER          | D-630-P            | SPINNER ASSEMBLY               | 1               | Prop           |                                       |
| COUNTERWEIGHT    | C-472-1            | PCP:COUNTERWEIGHT              | 1               | Blade          |                                       |
| DE-ICER          | 4H2271-12          | DE-ICE BOOT                    | 1               | Blade          | Supersedes 4H2271-10 & 7931-4E2271-10 |
| DE-ICE KIT PR    | 106298             | DE-ICE KIT (ONE PROP)          | 1               | Prop           | Supersedes 7931-67-450-1              |
| DE-ICE KIT PR    | 7931-67-450-1      | DE-ICE KIT (ONE PROP)          | 1               | Prop           | Superseded by 106298                  |
| MTG BOLT/STUD    | B-3339-1           | BOLT,MOUNTING,9/16-18,12 POINT | 8               | Prop           |                                       |
| OVERHAUL KIT     | 106298-OH          | DE-ICE O/H KIT, 4H2271-12 BOOT | 1               | Prop           | For aftermarket use only              |
| OVERHAUL KIT     | HC-D4N-3C-OH       | O/H KIT                        | 1               | Prop           | For aftermarket use only              |

# HARTZELL

## APPLICATION GUIDE

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DE HAVILLAND CANADA

IDS No.: 1272      Rev.: 5      IC Date: 11/28/2016

**Model:** DHC-6-300  
**Trade Name:** TWIN OTTER  
**Aircraft T.C./STC:** STC SA100CH  
**Propeller Model:** HC-B3TN-3D(Y)  
**Propeller T.C.:** P15EA  
**Blade Model(s):** T10282  
                           T10282\*1  
                           T10282B\*1  
                           T10282B\*2  
                           T10282N  
                           T10282N\*1  
                           T10282NB\*1  
                           T10282NB\*2  
**Prop Diameter:** 102.0" TO 98.0"

**Modifier:** WIPAIRE, INC.  
**Engine Model:** PT6A-34  
**Power:** 750 HP @ 2200 RPM  
**Placard/Restr:**  
**Notes:** B3N10581 and B3N10590 are -3DY.

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** -15.0 +-0.5  
**Low Pitch Angle:** 21.0 +-0.1  
**Stud Protrusion**

**Startlock Angle:** 1.0 +-1.0  
**Feather/High Angle:** 87.0 +-1.0  
**Cwt Angle:** -1.5 TO POS.

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type                      | Item Number   | Description                           | Quantity | Qty Per | Comments                  |
|--------------------------------|---------------|---------------------------------------|----------|---------|---------------------------|
| PROPELLER                      | B3N10581      | HC-B3TN-3DY/T10282N[*1]               | 2        | A/C     |                           |
| PROPELLER                      | B3N10581S     | HC-B3TN-3DY/T10282N[*1]/3065-1P       | 2        | A/C     |                           |
| PROPELLER                      | B3N10581SKD   | HC-B3TN-3DY/T10282N[*1]/3065-1P       | 2        | A/C     |                           |
| PROPELLER                      | B3N10590      | HC-B3TN-3DY/T10282NB[*1]              | 2        | A/C     |                           |
| BLADE                          | T10282        | BLADE                                 | 3        | Prop    |                           |
| BLADE                          | T10282*1      | IDS*ITEM, BLADE, [3,3,1]              | 3        | Prop    |                           |
| BLADE                          | T10282B*1     | IDS*ITEM,4E1188-5 BOOT [3,3,1]        | 3        | Prop    |                           |
| BLADE                          | T10282B*2     | IDS*ITEM,4E1188-5 BOOT @ 1.375        | 3        | Prop    |                           |
| BLADE                          | T10282N       | PCP:BLADE UNIT, ALUMINUM              | 3        | Prop    |                           |
| BLADE                          | T10282N*1     | PCP:BLADE UNIT, ALUM [3,3,1]          | 3        | Prop    |                           |
| BLADE                          | T10282NB*1    | PCP:BLADE UNIT,4H1188-5[3,3,1]        | 3        | Prop    |                           |
| BLADE                          | T10282NB*2    | PCP:BLADE UNIT, ALUM 4H1188-5         | 3        | Prop    |                           |
| SPINNER                        | C-3065-1      | SPINNER ASSEMBLY                      | 1        | Prop    |                           |
| SPINNER                        | C-3065-1P     | SPINNER ASSEMBLY                      | 1        | Prop    |                           |
| SPIN MTG KIT                   | B-3384-4H     | BOLT, 1/4-28, HEX HEAD                | 6        | Prop    | Qty=6 for -3DY Prop Model |
| SPIN MTG KIT                   | B-3384-4H     | BOLT, 1/4-28, HEX HEAD                | 12       | Prop    | Qty=12 for -3D Prop Model |
| SPIN MTG KIT                   | B-3808-4      | NUT,HEX,SELF-LOCKING                  | 12       | Prop    |                           |
| SPIN MTG KIT                   | B-3851-0432   | WASHER                                | 24       | Prop    |                           |
| SP MT KIT DE-ICE               | A-2070-10     | SCREW, 1/4-28, BUTTON HEAD            | 3        | Prop    |                           |
| SP MT KIT DE-ICE               | A-2070-7      | SCREW, 1/4-28, BUTTON HEAD            | 9        | Prop    |                           |
| SP MT KIT DE-ICE               | B-3837-0432   | WASHER, CORROSION RESISTANT           | 12       | Prop    |                           |
| SP MT KIT DE-ICE               | B-7077-52     | BELLEVILLE SPRING WASHER              | 12       | Prop    |                           |
| COUNTERWEIGHT SLUG A-3039      |               | SLUG, COUNTERWEIGHT                   | 1        | Blade   |                           |
| COUNTERWEIGHT SLUG A-890-6     |               | PCP:SLUG, COUNTERWEIGHT               | 1        | Blade   | Primary                   |
| COUNTERWEIGHT SLUG A-890-8     |               | PCP:SLUG, COUNTERWEIGHT               | 1        | Blade   | Alternate                 |
| COUNTERWEIGHT SLUG A-890-9     |               | PCP:SLUG, COUNTERWEIGHT               | 1        | Blade   | Alternate                 |
| COUNTERWEIGHT SLUG B-3384-21H  |               | BOLT, 1/4-28, HEX HEAD                | 2        | Blade   |                           |
| COUNTERWEIGHT SLUG B-3851-0432 |               | WASHER                                | 2        | Blade   | Optional                  |
| COUNTERWEIGHT SLUG B-3851-0463 |               | WASHER                                | 2        | Blade   | Optional                  |
| DE-ICER                        | 4H1188-5      | DE-ICE BOOT                           | 1        | Blade   | Supersedes 7931-4E1188-5  |
| DE-ICE KIT PR                  | 7931-65-090-1 | DE-ICE KIT (ONE PROP, W/ START-LOCKS) | 1        | Prop    |                           |
| MTG BOLT/STUD                  | B-3339        | BOLT, MOUNTING, 9/16-18, 12 POINT     | 8        | Prop    |                           |
| MISC ACCES                     | A-4731        | BLOCK, BETA FEEDBACK- ASSEMBLY        | 2        | Prop    |                           |



|              |                 |                               |   |      |   |
|--------------|-----------------|-------------------------------|---|------|---|
| OVERHAUL KIT | 65-090-1-OH*1   | DE-ICE O/H KIT, 4H1188-5 BOOT | 1 | Prop | For aftermarket use only (KIT FOR PROP WITH START LOCKS)    |
| OVERHAUL KIT | 65-090-1-OH*3   | DE-ICE O/H KIT, 4H1188-5 BOOT | 1 | Prop | For aftermarket use only (KIT FOR PROP WITHOUT START LOCKS) |
| OVERHAUL KIT | HC-B3TN-3DY-OH2 | O/H KIT, A-4731 CARBON BLOCK  | 1 | Prop | For aftermarket use only                                    |

# HARTZELL

## APPLICATION GUIDE

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DE HAVILLAND CANADA

IDS No.: 472      Rev.: 4      IC      Date: 04/22/2016

**Model:** DHC-6-300  
**Trade Name:** TWIN OTTER  
**Aircraft T.C./STC:** STC SA743NE  
**Propeller Model:** HC-B3TN-3DY  
**Propeller T.C.:** P15EA  
**Blade Model(s):** T10282  
                           T10282\*1  
                           T10282B\*2  
                           T10282N  
                           T10282N\*1  
                           T10282NB\*1  
                           T10282NB\*2

**Modifier:** VIKING AIR LTD.  
**Engine Model:** PT6A-34  
**Power:** 620 HP @ 2110 RPM  
**Placard/Restr:**

**Notes:** For prop B3N10580 (18) B-3851-0463 are extra washers needed for assembly and shipment of a prop that doesn't have a bulkhead attached. The (18) washers are for setting Start-Lock angles. Discard the (18) washers upon installation to A/C.

**Prop Diameter:** 102.0"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** -15.0 +-0.5  
**Low Pitch Angle:** 17.0 +-0.1  
**Stud Protrusion**

**Startlock Angle:** 1.0 +-1.0  
**Feather/High Angle:** 87.0 +-1.0  
**Cwt Angle:** -1.5 TO POS.

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type                      | Item Number   | Description                           | Quantity | Qty Per | Comments                 |
|--------------------------------|---------------|---------------------------------------|----------|---------|--------------------------|
| PROPELLER                      | B3N10580      | HC-B3TN-3DY/T10282N[*1]               | 2        | A/C     |                          |
| PROPELLER                      | B3N10580S     | HC-B3TN-3DY/T10282N[*1]               | 2        | A/C     |                          |
| PROPELLER                      | B3N10580SKD   | HC-B3TN-3DY/T10282N[*1]               | 2        | A/C     |                          |
| PROPELLER                      | B3N10594S     | HC-B3TN-3DY/T10282NB[*1]              | 0        |         |                          |
| PROPELLER                      | B3N10594SKD   | HC-B3TN-3DY/T10282NB[*1]              | 2        | A/C     |                          |
| BLADE                          | T10282        | BLADE                                 | 3        | Prop    |                          |
| BLADE                          | T10282*1      | IDS*ITEM, BLADE, [3,3,1]              | 3        | Prop    |                          |
| BLADE                          | T10282B*2     | IDS*ITEM,4E1188-5 BOOT @ 1.375        | 3        | Prop    |                          |
| BLADE                          | T10282N       | PCP:BLADE UNIT, ALUMINUM              | 3        | Prop    |                          |
| BLADE                          | T10282N*1     | PCP:BLADE UNIT, ALUM [3,3,1]          | 3        | Prop    |                          |
| BLADE                          | T10282NB*1    | PCP:BLADE UNIT,4H1188-5[3,3,1]        | 3        | Prop    |                          |
| BLADE                          | T10282NB*2    | PCP:BLADE UNIT, ALUM 4H1188-5         | 3        | Prop    |                          |
| SPINNER                        | C-3065-1      | SPINNER ASSEMBLY                      | 1        | Prop    |                          |
| SPINNER                        | C-3065-1P     | SPINNER ASSEMBLY                      | 1        | Prop    |                          |
| SPIN MTG KIT                   | A-2070-9      | SCREW, 1/4-28, BUTTON HEAD            | 3        | Prop    |                          |
| SPIN MTG KIT                   | B-3384-4H     | BOLT, 1/4-28, HEX HEAD                | 6        | Prop    |                          |
| SPIN MTG KIT                   | B-3384-5H     | BOLT, 1/4-28, HEX HEAD                | 3        | Prop    |                          |
| SPIN MTG KIT                   | B-3384-8H     | BOLT, 1/4-28, HEX HEAD                | 3        | Prop    |                          |
| SPIN MTG KIT                   | B-3808-4      | NUT,HEX,SELF-LOCKING                  | 12       | Prop    |                          |
| SPIN MTG KIT                   | B-3851-0432   | WASHER                                | 24       | Prop    |                          |
| SP MT KIT DE-ICE               | A-2070-10     | SCREW, 1/4-28, BUTTON HEAD            | 3        | Prop    |                          |
| SP MT KIT DE-ICE               | A-2070-7      | SCREW, 1/4-28, BUTTON HEAD            | 9        | Prop    |                          |
| SP MT KIT DE-ICE               | B-3808-4      | NUT,HEX,SELF-LOCKING                  | 12       | Prop    |                          |
| SP MT KIT DE-ICE               | B-3837-0432   | WASHER, CORROSION RESISTANT           | 12       | Prop    |                          |
| SP MT KIT DE-ICE               | B-7077-52     | BELLEVILLE SPRING WASHER              | 12       | Prop    |                          |
| COUNTERWEIGHT SLUG A-3039      |               | SLUG, COUNTERWEIGHT                   | 1        | Blade   |                          |
| COUNTERWEIGHT SLUG A-890-6     |               | PCP:SLUG, COUNTERWEIGHT               | 1        | Blade   | Primary                  |
| COUNTERWEIGHT SLUG A-890-8     |               | PCP:SLUG, COUNTERWEIGHT               | 1        | Blade   | Alternate                |
| COUNTERWEIGHT SLUG A-890-9     |               | PCP:SLUG, COUNTERWEIGHT               | 1        | Blade   | Alternate                |
| COUNTERWEIGHT SLUG B-3384-21H  |               | BOLT, 1/4-28, HEX HEAD                | 2        | Blade   |                          |
| COUNTERWEIGHT SLUG B-3851-0432 |               | WASHER                                | 2        | Blade   | Optional                 |
| COUNTERWEIGHT SLUG B-3851-0463 |               | WASHER                                | 2        | Blade   | Optional                 |
| DE-ICER                        | 4H1188-5      | DE-ICE BOOT                           | 1        | Blade   | Supersedes 7931-4E1188-5 |
| DE-ICE KIT PR                  | 7931-65-090-1 | DE-ICE KIT (ONE PROP, W/ START-LOCKS) | 1        | Prop    |                          |
| MTG BOLT/STUD                  | B-3339        | BOLT, MOUNTING, 9/16-18, 12 POINT     | 8        | Prop    |                          |

|              |                 |                                |   |      |   |
|--------------|-----------------|--------------------------------|---|------|---|
| MISC ACCES   | A-4731          | BLOCK, BETA FEEDBACK- ASSEMBLY | 2 | Prop |   |
| OVERHAUL KIT | 65-090-1-OH*1   | DE-ICE O/H KIT, 4H1188-5 BOOT  | 1 | Prop | For aftermarket use only(KIT FOR PROP WITH START LOCKS) |
| OVERHAUL KIT | HC-B3TN-3DY-OH2 | O/H KIT, A-4731 CARBON BLOCK   | 1 | Prop | For aftermarket use only                                |

# HARTZELL

## APPLICATION GUIDE

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**DE HAVILLAND CANADA (Viking Air)**

**IDS No.:** 2817      **Rev.:** 15      |      **Date:** 06/22/2022

**Model:** DHC-6-400  
**Trade Name:** TWIN OTTER  
**Aircraft T.C./STC:** A9EA  
**Propeller Model:** HC-B3TN-3D(Y)  
**Propeller T.C.:** P15EA  
**Blade Model(s):** T10282  
 T10282B\*1  
 T10282HB  
 T10282N\*1  
 T10282NB\*1

**Modifier:**  
**Engine Model:** PT6A-34  
**Power:** 620 HP @ 2110 RPM  
**Placard/Restr:**

**Notes:** TC holder is Viking Air Ltd. 21.0 degree low pitch pickup angle correlates to 17.0 degrees "Take-off low pitch" angle specified in aircraft TCDS.

**Prop Diameter:** 102.0" - 100.0"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** -15.0 +/- 0.5  
**Low Pitch Angle:** 21.0 +/- 0.1  
**Stud Protrusion**

**Startlock Angle:** 1.0 +/- 1.0  
**Feather/High Angle:** 87.0 +/- 0.5  
**Cwt Angle:** -1.5 TO POS.

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type        | Item Number | Description                     | Quantity | Qty Per | Comments  |
|------------------|-------------|---------------------------------|----------|---------|---|
| PROPELLER        | B3N10480S   | HC-B3TN-3D/T10282N[*1]/3065-1P  | 2        | A/C     |   |
| PROPELLER        | B3N10480SKD | HC-B3TN-3D/T10282N[*1]/3065-1P  | 2        | A/C     |   |
| PROPELLER        | B3N10489S   | HC-B3TN-3D/T10282NB[*1]         | 2        | A/C     |   |
| PROPELLER        | B3N10489SKD | HC-B3TN-3D/T10282NB[*1]         | 2        | A/C     |   |
| PROPELLER        | B3N10490S   | HC-B3TN-3D/T10282NB[*1]         | 2        | A/C     |   |
| PROPELLER        | B3N10490SKD | HC-B3TN-3D/T10282NB[*1]         | 2        | A/C     |   |
| PROPELLER        | B3N10520    | HC-B3TN-3DY/T10282N[*1]         | 2        | A/C     |   |
| PROPELLER        | B3N10520S   | HC-B3TN-3DY/T10282N[*1]         | 2        | A/C     |   |
| PROPELLER        | B3N10520SKD | HC-B3TN-3DY/T10282N[*1]         | 2        | A/C     |   |
| PROPELLER        | B3N10521    | HC-B3TN-3DY/T10282NB[*1]/BULK   | 2        | A/C     |   |
| PROPELLER        | B3N10521S   | HC-B3TN-3DY/T10282NB[*1]        | 2        | A/C     |   |
| PROPELLER        | B3N10521SKD | HC-B3TN-3DY/T10282NB[*1]/SPIN   | 2        | A/C     |   |
| PROPELLER        | B3N10524S   | HC-B3TN-3DY/T10282N*1/SPIN      | 2        | A/C     | Some components painted grey per customer request |
| PROPELLER        | B3N10524SKD | HC-B3TN-3DY/T10282N*1/SPIN      | 2        | A/C     | Some components painted grey per customer request |
| BLADE            | T10282      | BLADE                           | 3        | Prop    | Superseded by T10282N*1                           |
| BLADE            | T10282B*1   | IDS*ITEM,4E1188-5 BOOT [3,3,1]  | 3        |         | Superseded by T10282NB*1                          |
| BLADE            | T10282HB    | BLADE                           | 3        | Prop    | Superseded by T10282NB*1                          |
| BLADE            | T10282N*1   | PCP:BLADE UNIT, ALUM [3,3,1]    | 3        | Prop    |   |
| BLADE            | T10282NB*1  | PCP:BLADE UNIT, 4H1188-5[3,3,1] | 3        | Prop    |   |
| SPINNER          | C-3065-1    | SPINNER ASSEMBLY                | 1        | Prop    |   |
| SPINNER          | C-3065-1G   | SPINNER ASSEMBLY                | 1        | Prop    |   |
| SPINNER          | C-3065-1P   | SPINNER ASSEMBLY                | 1        | Prop    |   |
| SPIN MTG KIT     | B-3384-4H   | BOLT, 1/4-28, HEX HEAD          | 12       | Prop    | FOR USE WITHOUT START LOCKS                       |
| SPIN MTG KIT     | B-3384-4H   | BOLT, 1/4-28, HEX HEAD          | 6        | Prop    | FOR USE WITH START LOCKS                          |
| SPIN MTG KIT     | B-3384-5H   | BOLT, 1/4-28, HEX HEAD          | 3        | Prop    | FOR USE WITH START LOCKS                          |
| SPIN MTG KIT     | B-3384-8H   | BOLT, 1/4-28, HEX HEAD          | 3        | Prop    | FOR USE WITH START LOCKS                          |
| SPIN MTG KIT     | B-3808-4    | NUT,HEX,SELF-LOCKING            | 12       | Prop    |   |
| SPIN MTG KIT     | B-3851-0432 | WASHER                          | 24       | Prop    |   |
| SP MT KIT DE-ICE | A-2070-7    | SCREW, 1/4-28, BUTTON HEAD      | 6        | Prop    | FOR USE WITH DE-ICE AND START LOCKS               |
| SP MT KIT DE-ICE | A-2070-7    | SCREW, 1/4-28, BUTTON HEAD      | 12       | Prop    | FOR USE WITH DE-ICE AND NO START LOCKS            |
| SP MT KIT DE-ICE | A-2070-8    | SCREW, 1/4-28, BUTTON HEAD      | 3        | Prop    | FOR USE WITH DE-ICE AND START LOCKS               |
| SP MT KIT DE-ICE | A-2070-9    | SCREW, 1/4-28, BUTTON HEAD      | 3        | Prop    | FOR USE WITH DE-ICE AND START LOCKS               |
| SP MT KIT DE-ICE | B-3808-4    | NUT,HEX,SELF-LOCKING            | 12       | Prop    |   |

|                                |                |  |    |       |  |
|--------------------------------|----------------|--|----|-------|--|
| SP MT KIT DE-ICE               | B-3837-0432    | WASHER, CORROSION RESISTANT            | 12 | Prop  |  |
| SP MT KIT DE-ICE               | B-3851-0432    | WASHER                                 | 24 | Prop  |  |
| SP MT KIT DE-ICE               | B-7077-52      | BELLEVILLE SPRING WASHER               | 12 | Prop  |  |
| COUNTERWEIGHT SLUG A-3039      |                | SLUG, COUNTERWEIGHT                    | 1  | Blade |  |
| COUNTERWEIGHT SLUG A-890-6     |                | PCP:SLUG, COUNTERWEIGHT                | 1  | Blade | Primary  |
| COUNTERWEIGHT SLUG A-890-8     |                | PCP:SLUG, COUNTERWEIGHT                | 1  | Blade | Alternate  |
| COUNTERWEIGHT SLUG A-890-9     |                | PCP:SLUG, COUNTERWEIGHT                | 1  | Blade | Alternate  |
| COUNTERWEIGHT SLUG B-3384-21H  |                | BOLT, 1/4-28, HEX HEAD                 | 2  | Blade |  |
| COUNTERWEIGHT SLUG B-3851-0463 |                | WASHER                                 | 2  | Blade |  |
| DE-ICER                        | 4H1188-5       | DE-ICE BOOT                            | 1  | Blade |  |
| DE-ICE KIT PR                  | 7931-65-090-1* | DE-ICE KIT (ONE PROP, W/O START LOCKS) | 1  | Prop  |  |
| MTG BOLT/STUD                  | B-3339         | BOLT, MOUNTING, 9/16-18, 12 POINT      | 8  | Prop  |  |
| MISC ACCES                     | A-4731         | BLOCK, BETA FEEDBACK- ASSEMBLY         | 2  | Prop  |  |
| OVERHAUL KIT                   | 65-090-1-OH*3  | DE-ICE O/H KIT, 4H1188-5 BOOT          | 1  | Prop  | For aftermarket use only(KIT FOR PROP WITHOUT START LOCKS) |
| OVERHAUL KIT                   | HC-B3TN-3D-OH  | O/H KIT                                | 1  | Prop  | For aftermarket use only                                   |

# HARTZELL

## APPLICATION GUIDE

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DE HAVILLAND CANADA(Viking Air)

IDS No.: 469 Rev.: 3 IC Date: 07/15/2015

**Model:** DHC-6-100, -110, -200, -210

**Trade Name:** TWIN OTTER

**Aircraft T.C./STC:** A9EA

**Propeller Model:** HC-B3TN-3BY

**Propeller T.C.:** P15EA

**Blade Model(s):** T10173+1

T10173E+1

T10173N+1

T10173NE+1

T10173NE+1\*1

**Prop Diameter:** 102.5" TO 100"

**Modifier:**

**Engine Model:** PT6A-20

**Power:** 550 HP @ 2200 RPM

**Placard/Restr:**

**Notes:** Aircraft using 4E1188-5 or 4H1188-5 deicers are limited to S/N 1 through 350 in accordance with DHC SB no. 6/292 and Hartzell Manual no. 180. Boot thermal and location accepted per deHavilland OEM data PPS 39-05. Canadian TC no. A-82. - 110 and -210 series aircraft approved in UK.

### Prop Setup:

**Ref. Radius:** 30

**Reverse Angle:** -14.0 +-0.5

**Low Pitch Angle:** 20.0 +-0.2

**Stud Protrusion**

**Startlock Angle:** 1.0 +-1.0

**Feather/High Angle:** 87.0 +-0.5

**Cwt Angle:** -1.5 TO POS.

### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| Item Type                      | Item Number     | Description                           | Quantity | Qty Per | Comments  |
|--------------------------------|-----------------|---------------------------------------|----------|---------|---|
| PROPELLER                      | B3N10240        | HC-B3TN-3BY/T10173NE+1[*1]/BUL        | 2        | A/C     |   |
| BLADE                          | T10173+1        | BLADE                                 | 3        | Prop    |   |
| BLADE                          | T10173E+1       | IDS*ITEM, BLADE, 4E1188-3 BOOT        | 3        | Prop    |   |
| BLADE                          | T10173N+1       | PCP:BLADE UNIT, ALUMINUM              | 3        | Prop    |   |
| BLADE                          | T10173NE+1      | PCP:BLADE UNIT, ALUM 4H1188-3         | 3        | Prop    |   |
| BLADE                          | T10173NE+1*1    | PCP:BLADE UNIT, ALUM 4H1188-5         | 3        | Prop    | Uses 4H1188-5 de-icer                                   |
| SPINNER                        | C-3065-1        | SPINNER ASSEMBLY                      | 1        | Prop    |   |
| SPINNER                        | C-3065-1P       | SPINNER ASSEMBLY                      | 1        | Prop    |   |
| COUNTERWEIGHT SLUG A-3039      |                 | SLUG, COUNTERWEIGHT                   | 1        | Blade   |   |
| COUNTERWEIGHT SLUG A-890-8     |                 | PCP:SLUG, COUNTERWEIGHT               | 1        | Blade   |   |
| COUNTERWEIGHT SLUG B-3384-18H  |                 | BOLT, 1/4-28, HEX HEAD                | 2        | Blade   |   |
| COUNTERWEIGHT SLUG B-3851-0432 |                 | WASHER                                | 2        | Blade   | Optional  |
| COUNTERWEIGHT SLUG B-3851-0463 |                 | WASHER                                | 2        | Blade   | Optional  |
| DE-ICER                        | 4H1188-3        | DE-ICE BOOT                           | 1        | Blade   | Supersedes 7931-4E1188-3                                |
| DE-ICER                        | 4H1188-5        | DE-ICE BOOT                           | 1        | Blade   | Supersedes 7931-4E1188-5                                |
| DE-ICE KIT PR                  | 7931-65-090-1   | DE-ICE KIT (ONE PROP, W/ START-LOCKS) | 1        | Prop    |   |
| DE-ICE KIT PR                  | 7931-77-490     | IDS ITEM - DE-ICE KIT                 | 1        | Prop    |   |
| MTG BOLT/STUD                  | B-3339          | BOLT, MOUNTING, 9/16-18, 12 POINT     | 8        | Prop    |   |
| MISC ACCES                     | A-4731          | BLOCK, BETA FEEDBACK- ASSEMBLY        | 2        | Prop    |   |
| OVERHAUL KIT                   | 65-090-1-OH     | DE-ICE O/H KIT, 4H1188-3 BOOT         | 1        | Prop    | For aftermarket use only(KIT FOR PROP WITH START LOCKS) |
| OVERHAUL KIT                   | 65-090-1-OH*1   | DE-ICE O/H KIT, 4H1188-5 BOOT         | 1        | Prop    | For aftermarket use only(KIT FOR PROP WITH START LOCKS) |
| OVERHAUL KIT                   | HC-B3TN-3BY-OH2 | O/H KIT, A-4731 CARBON BLOCK          | 1        | Prop    | For aftermarket use only                                |

# HARTZELL

DEHAVILLAND

**Model:** CHIPMUNK  
**Trade Name:**  
**Aircraft T.C./STC:** Unknown  
**Propeller Model:** BHC-I2YF-4BF  
**Propeller T.C.:** P42GL

**Blade Model(s):** FC8459A-4  
**Prop Diameter:** 80"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 10.0 +-0.2  
**Stud Protrusion:** 1.120 +-0.030

### Non-HPI Items:

**Non-HPI Spinner:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>       | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|--------------------------|-----------------|----------------|-----------------|
| PROPELLER        | I2F00010           | BHC-I2YF-4BF/FC8459A-4   | 1               | A/C            |                 |
| BLADE            | FC8459A-4          | PCP:BLADE UNIT, ALUMINUM | 2               | Prop           |                 |
| SPINNER          | 835-42             | SPINNER ASSEMBLY         | 1               | Prop           |                 |
| COUNTERWEIGHT    | B-3202H-8          | PCP:COUNTERWEIGHT        | 1               | Blade          | Blade Component |
| MTG BOLT/STUD    | A-2429-3           | STUD, MOUNTING, 1/2-20   | 6               | Prop           |                 |

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**IDS No.:** 1931      **Rev.:** -      **DM Date:** 10/10/2002

**Modifier:**  
**Engine Model:** IO-360-D  
**Power:** 210 HP @ 2800 RPM  
**Placard/Restr:** Avoid continuous operation between 2400 and 2700 RPM

### **Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 30.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

# HARTZELL

## APPLICATION GUIDE

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DEHAVILLAND CANADA

IDS No.: 2640 Rev.: 4 IC Date: 07/15/2015

**Model:** DHC-6-100, -200  
**Trade Name:** TWIN OTTER  
**Aircraft T.C./STC:** SA01673NY  
**Propeller Model:** HC-B3TN-3D  
**Propeller T.C.:** P15EA  
**Blade Model(s):** T10282N  
 T10282NB\*2  
**Prop Diameter:** 102" TO 100"

**Modifier:** ROCKY MOUNTAIN AIRCRAFT  
**Engine Model:** PT6A-34  
**Power:** 550 HP @ 2110 RPM  
**Placard/Restr:**  
**Notes:** Transport Canada STC SA01-76

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** -15.0 +-0.5  
**Low Pitch Angle:** 17.0 +-0.5  
**Stud Protrusion**

**Startlock Angle:**  
**Feather/High Angle:** 87.0 +-1.0  
**Cwt Angle:** -1.5 TO POSITIVE

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type                      | Item Number    | Description                            | Quantity | Qty Per | Comments   |
|--------------------------------|----------------|--|----------|---------|--|
| PROPELLER                      | B3N10437       | HC-B3TN-3D/T10282N/BULKHEAD            | 2        | A/C     |  |
| PROPELLER                      | B3N10443       | HC-B3TN-3D/T10282NB[*2]/BULK           | 2        | A/C     |  |
| BLADE                          | T10282N        | PCP:BLADE UNIT, ALUMINUM               | 3        | Prop    |  |
| BLADE                          | T10282NB*2     | PCP:BLADE UNIT, ALUM 4H1188-5          | 3        | Prop    |  |
| SPINNER                        | C-3065-1       | SPINNER ASSEMBLY                       | 1        | Prop    |  |
| SPINNER                        | C-3065-1P      | SPINNER ASSEMBLY                       | 1        | Prop    |  |
| SPIN MTG KIT                   | B-3384-4H      | BOLT, 1/4-28, HEX HEAD                 | 12       | Prop    |  |
| SPIN MTG KIT                   | B-3808-4       | NUT,HEX,SELF-LOCKING                   | 12       | Prop    |  |
| SPIN MTG KIT                   | B-3851-0432    | WASHER                                 | 24       | Prop    |  |
| SP MT KIT DE-ICE               | A-2070-7       | SCREW, 1/4-28, BUTTON HEAD             | 12       | Prop    | [IN DEICE KIT]   |
| SP MT KIT DE-ICE               | B-3808-4       | NUT,HEX,SELF-LOCKING                   | 12       | Prop    | [IN DEICE KIT]   |
| SP MT KIT DE-ICE               | B-3837-0432    | WASHER, CORROSION RESISTANT            | 12       | Prop    | [IN DEICE KIT]   |
| SP MT KIT DE-ICE               | B-7077-52      | BELLEVILLE SPRING WASHER               | 12       | Prop    | [IN DEICE KIT]   |
| COUNTERWEIGHT SLUG A-3039      |                | SLUG, COUNTERWEIGHT                    | 1        | Blade   |  |
| COUNTERWEIGHT SLUG A-890-6     |                | PCP:SLUG, COUNTERWEIGHT                | 1        | Blade   | PRIMARY  |
| COUNTERWEIGHT SLUG A-890-8     |                | PCP:SLUG, COUNTERWEIGHT                | 1        | Blade   | Alternate  |
| COUNTERWEIGHT SLUG A-890-9     |                | PCP:SLUG, COUNTERWEIGHT                | 1        | Blade   | Alternate  |
| COUNTERWEIGHT SLUG B-3384-21H  |                | BOLT, 1/4-28, HEX HEAD                 | 2        | Blade   |  |
| COUNTERWEIGHT SLUG B-3851-0432 |                | WASHER                                 | 2        | Blade   | Alternate  |
| COUNTERWEIGHT SLUG B-3851-0463 |                | WASHER                                 | 2        | Blade   | PRIMARY  |
| DE-ICER                        | 4H1188-5       | DE-ICE BOOT                            | 1        | Blade   | Supersedes 7931-4E1188-5                                   |
| DE-ICE KIT PR                  | 7931-65-090-1* | DE-ICE KIT (ONE PROP, W/O START LOCKS) | 1        | Prop    |  |
| MTG BOLT/STUD                  | B-3339         | BOLT, MOUNTING, 9/16-18, 12 POINT      | 8        | Prop    |  |
| MISC ACCES                     | A-4731         | BLOCK, BETA FEEDBACK- ASSEMBLY         | 2        | Prop    |  |
| OVERHAUL KIT                   | 65-090-1-OH*3  | DE-ICE O/H KIT, 4H1188-5 BOOT          | 1        | Prop    | For aftermarket use only(KIT FOR PROP WITHOUT START LOCKS) |
| OVERHAUL KIT                   | HC-B3TN-3D-OH  | O/H KIT                                | 1        | Prop    | For aftermarket use only                                   |



# HARTZELL

## APPLICATION GUIDE

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DEHAVILLAND CANADA

IDS No.: 2601 Rev.: 4 IC Date: 07/15/2015

**Model:** DHC-6-100, -200  
**Trade Name:** TWIN OTTER  
**Aircraft T.C./STC:** SA01673NY  
**Propeller Model:** HC-B3TN-3DY  
**Propeller T.C.:** P15EA  
**Blade Model(s):** T10282N  
 T10282NB\*2  
**Prop Diameter:** 102" TO 100"

**Modifier:** ROCKY MOUNTAIN AIRCRAFT  
**Engine Model:** PT6A-34  
**Power:** 550 HP @ 2110 RPM  
**Placard/Restr:**  
**Notes:** Transport Canada STC SA01-76

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** -15.0 +-0.5  
**Low Pitch Angle:** 17.0 +-0.5  
**Stud Protrusion**

**Startlock Angle:** 1.0 +-1.0  
**Feather/High Angle:** 87.0 +-1.0  
**Cwt Angle:** -1.5 TO POSITIVE

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type                      | Item Number     | Description                           | Quantity | Qty Per | Comments  |
|--------------------------------|-----------------|---------------------------------------|----------|---------|---|
| PROPELLER                      | B3N10579        | HC-B3TN-3DY/T10282N/BULKHEAD          | 2        | A/C     |   |
| PROPELLER                      | B3N10593        | HC-B3TN-3DY/T10282NB[*2]/BULK         | 2        | A/C     |   |
| BLADE                          | T10282N         | PCP:BLADE UNIT, ALUMINUM              | 3        | Prop    |   |
| BLADE                          | T10282NB*2      | PCP:BLADE UNIT, ALUM 4H1188-5         | 3        | Prop    |   |
| SPINNER                        | C-3065-1        | SPINNER ASSEMBLY                      | 1        | Prop    |   |
| SPINNER                        | C-3065-1P       | SPINNER ASSEMBLY                      | 1        | Prop    |   |
| SPIN MTG KIT                   | B-3384-4H       | BOLT, 1/4-28, HEX HEAD                | 12       | Prop    |   |
| SPIN MTG KIT                   | B-3808-4        | NUT,HEX,SELF-LOCKING                  | 12       | Prop    |   |
| SPIN MTG KIT                   | B-3851-0432     | WASHER                                | 24       | Prop    |   |
| SP MT KIT DE-ICE               | A-2070-10       | SCREW, 1/4-28, BUTTON HEAD            | 3        | Prop    |   |
| SP MT KIT DE-ICE               | A-2070-7        | SCREW, 1/4-28, BUTTON HEAD            | 9        | Prop    | [IN DEICE KIT]  |
| SP MT KIT DE-ICE               | B-3808-4        | NUT,HEX,SELF-LOCKING                  | 12       | Prop    | [IN DEICE KIT]  |
| SP MT KIT DE-ICE               | B-3837-0432     | WASHER, CORROSION RESISTANT           | 12       | Prop    | [IN DEICE KIT]  |
| SP MT KIT DE-ICE               | B-7077-52       | BELLEVILLE SPRING WASHER              | 12       | Prop    | [IN DEICE KIT]  |
| COUNTERWEIGHT SLUG A-3039      |                 | SLUG, COUNTERWEIGHT                   | 1        | Blade   |   |
| COUNTERWEIGHT SLUG A-890-6     |                 | PCP:SLUG, COUNTERWEIGHT               | 1        | Blade   | PRIMARY   |
| COUNTERWEIGHT SLUG A-890-8     |                 | PCP:SLUG, COUNTERWEIGHT               | 1        | Blade   | Alternate   |
| COUNTERWEIGHT SLUG A-890-9     |                 | PCP:SLUG, COUNTERWEIGHT               | 1        | Blade   | Alternate   |
| COUNTERWEIGHT SLUG B-3384-21H  |                 | BOLT, 1/4-28, HEX HEAD                | 2        | Blade   |   |
| COUNTERWEIGHT SLUG B-3851-0432 |                 | WASHER                                | 2        | Blade   | Alternate   |
| COUNTERWEIGHT SLUG B-3851-0463 |                 | WASHER                                | 2        | Blade   | PRIMARY   |
| DE-ICER                        | 4H1188-5        | DE-ICE BOOT                           | 1        | Blade   | Supersedes 7931-4E1188-5                                |
| DE-ICE KIT PR                  | 7931-65-090-1   | DE-ICE KIT (ONE PROP, W/ START-LOCKS) | 1        | Prop    |   |
| MTG BOLT/STUD                  | B-3339          | BOLT, MOUNTING, 9/16-18, 12 POINT     | 8        | Prop    |   |
| MISC ACCES                     | A-4731          | BLOCK, BETA FEEDBACK- ASSEMBLY        | 2        | Prop    |   |
| OVERHAUL KIT                   | 65-090-1-OH*1   | DE-ICE O/H KIT, 4H1188-5 BOOT         | 1        | Prop    | For aftermarket use only(KIT FOR PROP WITH START LOCKS) |
| OVERHAUL KIT                   | HC-B3TN-3DY-OH2 | O/H KIT, A-4731 CARBON BLOCK          | 1        | Prop    | For aftermarket use only                                |

# HARTZELL

## APPLICATION GUIDE 159

DEHAVILLAND CANADA(VIKING AIR)

IDS No.: 2690 Rev.: 2 IC Date: 07/15/2015

**Model:** DHC-6-1  
**Trade Name:** TWIN OTTER  
**Aircraft T.C./STC:** A9EA  
**Propeller Model:** HC-B3TN-3BY  
**Propeller T.C.:** P15EA  
**Blade Model(s):** T10173+1  
 T10173E+1  
 T10173N+1  
 T10173NE+1  
 T10173NE+1\*1

**Modifier:**  
**Engine Model:** PT6A-20  
**Power:** 550 HP @ 2200 RPM  
**Placard/Restr:**

**Notes:** Aircraft using 4E1188-5 or 4H1188-5 deicers are limited to S/N 1 through 350 in accordance with DHC SB no. 6/292 and Hartzell Manual no. 180. Boot thermal and location accepted per deHavilland OEM data PPS 39-05. Canadian TC no. A-82.

**Prop Diameter:** 102.5" TO 100"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** -9.0 +-0.5  
**Low Pitch Angle:** 20.0 +-0.2  
**Stud Protrusion**

**Startlock Angle:** 1.0 +-1.0  
**Feather/High Angle:** 87.0 +-0.5  
**Cwt Angle:** -1.5 TO POS.

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type                      | Item Number   | Description                           | Quantity | Qty Per | Comments  |
|--------------------------------|---------------|---------------------------------------|----------|---------|---|
| BLADE                          | T10173+1      | BLADE                                 | 3        | Prop    |   |
| BLADE                          | T10173E+1     | IDS*ITEM, BLADE, 4E1188-3 BOOT        | 3        | Prop    |   |
| BLADE                          | T10173N+1     | PCP:BLADE UNIT, ALUMINUM              | 3        | Prop    |   |
| BLADE                          | T10173NE+1    | PCP:BLADE UNIT, ALUM 4H1188-3         | 3        | Prop    |   |
| BLADE                          | T10173NE+1*1  | PCP:BLADE UNIT, ALUM 4H1188-5         | 3        | Prop    |   |
| SPINNER                        | C-3065-1      | SPINNER ASSEMBLY                      | 1        | Prop    |   |
| SPINNER                        | C-3065-1P     | SPINNER ASSEMBLY                      | 1        | Prop    |   |
| COUNTERWEIGHT SLUG A-3039      |               | SLUG, COUNTERWEIGHT                   | 1        | Blade   |   |
| COUNTERWEIGHT SLUG A-890-8     |               | PCP:SLUG, COUNTERWEIGHT               | 1        | Blade   |   |
| COUNTERWEIGHT SLUG B-3384-18H  |               | BOLT, 1/4-28, HEX HEAD                | 2        | Blade   |   |
| COUNTERWEIGHT SLUG B-3851-0463 |               | WASHER                                | 2        | Blade   | Optional  |
| DE-ICER                        | 4H1188-3      | DE-ICE BOOT                           | 1        | Blade   | Supersedes 7931-4E1188-3                                |
| DE-ICER                        | 4H1188-5      | DE-ICE BOOT                           | 1        | Blade   | Supersedes 7931-4E1188-5                                |
| DE-ICE KIT PR                  | 7931-65-090-1 | DE-ICE KIT (ONE PROP, W/ START-LOCKS) | 1        | Prop    |   |
| DE-ICE KIT PR                  | 7931-77-490   | IDS ITEM - DE-ICE KIT                 | 1        | Prop    |   |
| MTG BOLT/STUD                  | B-3339        | BOLT, MOUNTING, 9/16-18, 12 POINT     | 8        | Prop    |   |
| MISC ACCES                     | A-4731        | BLOCK, BETA FEEDBACK- ASSEMBLY        | 2        | Prop    |   |
| OVERHAUL KIT                   | 65-090-1-OH   | DE-ICE O/H KIT, 4H1188-3 BOOT         | 1        | Prop    | For aftermarket use only(KIT FOR PROP WITH START LOCKS) |
| OVERHAUL KIT                   | 65-090-1-OH*1 | DE-ICE O/H KIT, 4H1188-5 BOOT         | 1        | Prop    | For aftermarket use only(KIT FOR PROP WITH START LOCKS) |

# HARTZELL

## APPLICATION GUIDE

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deHavilland Canada(Viking Air)

IDS No.: 2691 Rev.: 3 IC Date: 07/15/2015

**Model:** DHC-6-1  
**Trade Name:** TWIN OTTER  
**Aircraft T.C./STC:** A9EA  
**Propeller Model:** HC-B3TN-3B  
**Propeller T.C.:** P15EA  
**Blade Model(s):** T10173N+1  
 T10173NE+1  
 T10173NE+1\*1  
**Prop Diameter:** 102.5" TO 100"

**Modifier:**  
**Engine Model:** PT6A-20  
**Power:** 550 HP @ 2200 RPM  
**Placard/Restr:**  
**Notes:** Aircraft using 4E1188-5 or 4H1188-5 deicers are limited to S/N 1 through 350 in accordance with DHC SB no. 6/292 and Hartzell Manual no. 180. Boot thermal and location accepted per deHavilland OEM data PPS 39-05. Canadian TC no. A-82.

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** -9.0 +-0.5  
**Low Pitch Angle:** 21.0 +-0.2  
**Stud Protrusion**

**Startlock Angle:**  
**Feather/High Angle:** 87.0 +-0.5  
**Cwt Angle:** -1.5 TO POS.

### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| Item Type                      | Item Number    | Description                            | Quantity | Qty Per | Comments   |
|--------------------------------|----------------|--|----------|---------|--|
| PROPELLER                      | B3N10149       | HC-B3TN-3B/T10173NE+1[*1]/BULK         | 2        | A/C     |  |
| BLADE                          | T10173N+1      | PCP:BLADE UNIT, ALUMINUM               | 3        | Prop    |  |
| BLADE                          | T10173NE+1     | PCP:BLADE UNIT, ALUM 4H1188-3          | 3        | Prop    |  |
| BLADE                          | T10173NE+1*1   | PCP:BLADE UNIT, ALUM 4H1188-5          | 3        | Prop    |  |
| SPINNER                        | C-3065-1       | SPINNER ASSEMBLY                       | 1        | Prop    |  |
| SPINNER                        | C-3065-1P      | SPINNER ASSEMBLY                       | 1        | Prop    |  |
| SP MT KIT DE-ICE               | A-2070-7       | SCREW, 1/4-28, BUTTON HEAD             | 12       | Prop    | [IN DEICE KIT]   |
| SP MT KIT DE-ICE               | B-3808-4       | NUT, HEX, SELF-LOCKING                 | 12       | Prop    |  |
| SP MT KIT DE-ICE               | B-7077-52      | BELLEVILLE SPRING WASHER               | 12       | Prop    |  |
| COUNTERWEIGHT SLUG A-3039      |                | SLUG, COUNTERWEIGHT                    | 1        | Blade   |  |
| COUNTERWEIGHT SLUG A-890-8     |                | PCP:SLUG, COUNTERWEIGHT                | 1        | Blade   |  |
| COUNTERWEIGHT SLUG B-3384-18H  |                | BOLT, 1/4-28, HEX HEAD                 | 2        | Blade   |  |
| COUNTERWEIGHT SLUG B-3851-0432 |                | WASHER                                 | 2        | Blade   | Optional   |
| COUNTERWEIGHT SLUG B-3851-0463 |                | WASHER                                 | 2        | Blade   | Optional   |
| DE-ICER                        | 4H1188-3       | DE-ICE BOOT                            | 1        | Blade   |  |
| DE-ICER                        | 4H1188-5       | DE-ICE BOOT                            | 1        | Blade   |  |
| DE-ICE KIT PR                  | 7931-65-090-1* | DE-ICE KIT (ONE PROP, W/O START LOCKS) | 1        | Prop    |  |
| DE-ICE KIT PR                  | 7931-77-490    | IDS ITEM - DE-ICE KIT                  | 1        | Prop    |  |
| MTG BOLT/STUD                  | B-3339         | BOLT, MOUNTING, 9/16-18, 12 POINT      | 8        | Prop    |  |
| MISC ACCES                     | A-4731         | BLOCK, BETA FEEDBACK- ASSEMBLY         | 2        | Prop    |  |
| OVERHAUL KIT                   | 65-090-1-OH*2  | DE-ICE O/H KIT, 4H1188-3 BOOT          | 1        | Prop    | For aftermarket use only(KIT FOR PROP WITHOUT START LOCKS) |
| OVERHAUL KIT                   | 65-090-1-OH*3  | DE-ICE O/H KIT, 4H1188-5 BOOT          | 1        | Prop    | For aftermarket use only(KIT FOR PROP WITHOUT START LOCKS) |
| OVERHAUL KIT                   | HC-B3TN-3B-OH  | O/H KIT                                | 1        | Prop    | For aftermarket use only(ALSO REPLACES A-2741)             |

DeHavilland Canada(Viking Air)

IDS No.: 470      Rev.: 8      IC      Date: 06/22/2022

**Model:** DHC-6-300, -310, -320  
**Trade Name:** TWIN OTTER  
**Aircraft T.C./STC:** A9EA  
**Propeller Model:** HC-B3TN-3D(Y)  
**Propeller T.C.:** P15EA  
**Blade Model(s):** T10282B\*2  
                           T10282N  
                           T10282N\*1  
                           T10282NB\*1  
                           T10282NB\*2

**Modifier:**  
**Engine Model:** PT6A-27  
**Power:** 620 HP @ 2110 RPM  
**Placard/Restr:**

**Notes:** TC holder is Viking Air Ltd. 21.0 degree low pitch pickup angle correlates to 17.0 degrees "Take-off low pitch" angle specified in aircraft TCDS.

**Prop Diameter:** 102.0" TO 100"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** -15.0 +/- 0.5  
**Low Pitch Angle:** 21.0 +/- 0.1  
**Stud Protrusion**

**Startlock Angle:** 1.0 +/- 1.0  
**Feather/High Angle:** 87.0 +/- 0.5  
**Cwt Angle:** -1.5 TO POS.

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type        | Item Number | Description                     | Quantity | Qty Per | Comments  |
|------------------|-------------|---------------------------------|----------|---------|---|
| PROPELLER        | B3N10438    | HC-B3TN-3D/T10282N              | 2        | A/C     |   |
| PROPELLER        | B3N10438KD  | HC-B3TN-3D/T10282N              | 2        | A/C     |   |
| PROPELLER        | B3N10439    | HC-B3TN-3D/T10282N/BULK         | 2        | A/C     |   |
| PROPELLER        | B3N10439KD  | HC-B3TN-3D/T10282N/BULK         | 2        | A/C     |   |
| PROPELLER        | B3N10448    | HC-B3TN-3D/T10282NB[*2]/BULK    | 2        | A/C     |   |
| PROPELLER        | B3N10448KD  | HC-B3TN-3D/T10282NB[*2]/BULK    | 2        | A/C     |   |
| PROPELLER        | B3N10448S   | HC-B3TN-3D/T10282NB[*2]/SPIN    | 2        | A/C     |   |
| PROPELLER        | B3N10448SKD | HC-B3TN-3D/T10282NB[*2]/SPIN    | 2        | A/C     |   |
| PROPELLER        | B3N10480S   | HC-B3TN-3D/T10282N[*1]/3065-1P  | 2        | A/C     |   |
| PROPELLER        | B3N10480SKD | HC-B3TN-3D/T10282N[*1]/3065-1P  | 2        | A/C     |   |
| PROPELLER        | B3N10490S   | HC-B3TN-3D/T10282NB[*1]         | 2        | A/C     |   |
| PROPELLER        | B3N10490SKD | HC-B3TN-3D/T10282NB[*1]         | 2        | A/C     |   |
| PROPELLER        | B3N10520S   | HC-B3TN-3DY/T10282N[*1]         | 2        | A/C     |   |
| PROPELLER        | B3N10520SKD | HC-B3TN-3DY/T10282N[*1]         | 2        | A/C     |   |
| PROPELLER        | B3N10521S   | HC-B3TN-3DY/T10282NB[*1]        | 2        | A/C     |   |
| PROPELLER        | B3N10521SKD | HC-B3TN-3DY/T10282NB[*1]/SPIN   | 2        | A/C     |   |
| PROPELLER        | B3N10524S   | HC-B3TN-3DY/T10282N*1/SPIN      | 2        | A/C     | Some components painted grey per customer request |
| PROPELLER        | B3N10524SKD | HC-B3TN-3DY/T10282N*1/SPIN      | 2        | A/C     | Some component painted grey per customer request  |
| BLADE            | T10282B*2   | IDS*ITEM,4E1188-5 BOOT @ 1.375  | 3        | Prop    |   |
| BLADE            | T10282N     | PCP:BLADE UNIT, ALUMINUM        | 3        | Prop    |   |
| BLADE            | T10282N*1   | PCP:BLADE UNIT, ALUM [3,3,1]    | 3        | Prop    |   |
| BLADE            | T10282NB*1  | PCP:BLADE UNIT, 4H1188-5[3,3,1] | 3        | Prop    |   |
| BLADE            | T10282NB*2  | PCP:BLADE UNIT, ALUM 4H1188-5   | 3        | Prop    |   |
| SPINNER          | C-3065-1    | SPINNER ASSEMBLY                | 1        | Prop    |   |
| SPINNER          | C-3065-1G   | SPINNER ASSEMBLY                | 1        | Prop    |   |
| SPINNER          | C-3065-1P   | SPINNER ASSEMBLY                | 1        | Prop    |   |
| SPIN MTG KIT     | B-3384-4H   | BOLT, 1/4-28, HEX HEAD          | 6        | Prop    | FOR USE WITH START LOCKS                          |
| SPIN MTG KIT     | B-3384-4H   | BOLT, 1/4-28, HEX HEAD          | 12       | Prop    | FOR USE WITHOUT START LOCKS                       |
| SPIN MTG KIT     | B-3384-5H   | BOLT, 1/4-28, HEX HEAD          | 3        | Prop    | FOR USE WITH START LOCKS                          |
| SPIN MTG KIT     | B-3384-8H   | BOLT, 1/4-28, HEX HEAD          | 3        | Prop    | FOR USE WITH START LOCKS                          |
| SPIN MTG KIT     | B-3808-4    | NUT,HEX,SELF-LOCKING            | 12       | Prop    |   |
| SPIN MTG KIT     | B-3851-0432 | WASHER                          | 24       | Prop    |   |
| SP MT KIT DE-ICE | A-2070-7    | SCREW, 1/4-28, BUTTON HEAD      | 6        | Prop    | FOR USE WITH DE-ICE AND START LOCKS               |
| SP MT KIT DE-ICE | A-2070-7    | SCREW, 1/4-28, BUTTON HEAD      | 12       | Prop    | FOR USE WITH DE-ICE AND NO START LOCKS            |

|                                |                |  |    |       |  |
|--------------------------------|----------------|--|----|-------|--|
| SP MT KIT DE-ICE               | A-2070-8       | SCREW, 1/4-28, BUTTON HEAD             | 3  | Prop  | FOR USE WITH DE-ICE AND START LOCKS                        |
| SP MT KIT DE-ICE               | A-2070-9       | SCREW, 1/4-28, BUTTON HEAD             | 3  | Prop  | FOR USE WITH DE-ICE AND START LOCKS                        |
| SP MT KIT DE-ICE               | B-3808-4       | NUT,HEX,SELF-LOCKING                   | 12 | Prop  |  |
| SP MT KIT DE-ICE               | B-3837-0432    | WASHER, CORROSION RESISTANT            | 12 | Prop  |  |
| SP MT KIT DE-ICE               | B-7077-52      | BELLEVILLE SPRING WASHER               | 12 | Prop  |  |
| COUNTERWEIGHT SLUG A-3039      |                | SLUG, COUNTERWEIGHT                    | 1  | Blade |  |
| COUNTERWEIGHT SLUG A-890-6     |                | PCP:SLUG, COUNTERWEIGHT                | 1  | Blade | Primary  |
| COUNTERWEIGHT SLUG A-890-8     |                | PCP:SLUG, COUNTERWEIGHT                | 1  | Blade | Alternate  |
| COUNTERWEIGHT SLUG A-890-9     |                | PCP:SLUG, COUNTERWEIGHT                | 1  | Blade | Alternate  |
| COUNTERWEIGHT SLUG B-3384-21H  |                | BOLT, 1/4-28, HEX HEAD                 | 2  | Blade |  |
| COUNTERWEIGHT SLUG B-3851-0432 |                | WASHER                                 | 2  | Blade | Optional   |
| COUNTERWEIGHT SLUG B-3851-0463 |                | WASHER                                 | 2  | Blade | Optional   |
| DE-ICER                        | 4H1188-5       | DE-ICE BOOT                            | 1  | Blade | Supersedes 7931-4E1188-5                                   |
| DE-ICE KIT PR                  | 7931-65-090-1  | DE-ICE KIT (ONE PROP, W/ START-LOCKS)  | 1  | Prop  |  |
| DE-ICE KIT PR                  | 7931-65-090-1* | DE-ICE KIT (ONE PROP, W/O START LOCKS) | 1  | Prop  |  |
| MTG BOLT/STUD                  | B-3339         | BOLT, MOUNTING, 9/16-18, 12 POINT      | 8  | Prop  |  |
| MISC ACCES                     | A-4731         | BLOCK, BETA FEEDBACK- ASSEMBLY         | 2  | Prop  |  |
| OVERHAUL KIT                   | 65-090-1-OH*3  | DE-ICE O/H KIT, 4H1188-5 BOOT          | 1  | Prop  | For aftermarket use only(KIT FOR PROP WITHOUT START LOCKS) |
| OVERHAUL KIT                   | HC-B3TN-3D-OH  | O/H KIT                                | 1  | Prop  | For aftermarket use only                                   |

# HARTZELL

## APPLICATION GUIDE

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DeHavilland Canada(Viking Air)

IDS No.: 1901 Rev.: 3 IC Date: 07/15/2015

**Model:** DHC-6-100, -110, -200, -210

**Trade Name:** TWIN OTTER

**Aircraft T.C./STC:** A9EA

**Propeller Model:** HC-B3TN-3B

**Propeller T.C.:** P15EA

**Blade Model(s):** T10173+1

T10173N+1

T10173NE+1

T10173NE+1\*1

**Prop Diameter:** 102.5" TO 100"

**Modifier:**

**Engine Model:** PT6A-20

**Power:** 550 HP @ 2200 RPM

**Placard/Restr:**

**Notes:** Aircraft using 4E1188-5 or 4H1188-5 deicers are limited to S/N 1 through 350 in accordance with DHC SB no. 6/292 and Hartzell Manual no. 180. Boot thermal and location accepted per deHavilland OEM data PPS 39-05. Canadian TC no. A-82. - 110 and -210 series aircraft approved in UK.

### Prop Setup:

**Ref. Radius:** 30

**Reverse Angle:** -14.0 +0.5

**Low Pitch Angle:** 20.0 +0.2

**Stud Protrusion**

**Startlock Angle:**

**Feather/High Angle:** 87.0 +0.5

**Cwt Angle:** -1.5 TO POS.

### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| Item Type                      | Item Number    | Description                            | Quantity | Qty Per | Comments  |
|--------------------------------|----------------|--|----------|---------|---|
| PROPELLER                      | B3N10140       | HC-B3TN-3B/T10173N+1                   | 2        | A/C     |   |
| PROPELLER                      | B3N10148       | HC-B3TN-3B/T10173NE+1[*1]/BULK         | 2        | A/C     |   |
| BLADE                          | T10173+1       | BLADE                                  | 3        | Prop    |   |
| BLADE                          | T10173N+1      | PCP:BLADE UNIT, ALUMINUM               | 3        | Prop    |   |
| BLADE                          | T10173NE+1     | PCP:BLADE UNIT, ALUM 4H1188-3          | 3        | Prop    |   |
| BLADE                          | T10173NE+1*1   | PCP:BLADE UNIT, ALUM 4H1188-5          | 3        | Prop    |   |
| SPINNER                        | C-3065-1       | SPINNER ASSEMBLY                       | 1        | Prop    |   |
| SPINNER                        | C-3065-1P      | SPINNER ASSEMBLY                       | 1        | Prop    |   |
| SPIN MTG KIT                   | B-3384-4H      | BOLT, 1/4-28, HEX HEAD                 | 12       | Prop    |   |
| SPIN MTG KIT                   | B-3808-4       | NUT,HEX,SELF-LOCKING                   | 12       | Prop    |   |
| SPIN MTG KIT                   | B-3851-0432    | WASHER                                 | 24       | Prop    |   |
| SP MT KIT DE-ICE               | A-2070-7       | SCREW, 1/4-28, BUTTON HEAD             | 12       | Prop    | [IN DEICE KIT]  |
| SP MT KIT DE-ICE               | B-3808-4       | NUT,HEX,SELF-LOCKING                   | 12       | Prop    |   |
| SP MT KIT DE-ICE               | B-7077-52      | BELLEVILLE SPRING WASHER               | 12       | Prop    |   |
| COUNTERWEIGHT SLUG A-3039      |                | SLUG, COUNTERWEIGHT                    | 1        | Blade   |   |
| COUNTERWEIGHT SLUG A-890-8     |                | PCP:SLUG, COUNTERWEIGHT                | 1        | Blade   |   |
| COUNTERWEIGHT SLUG B-3384-18H  |                | BOLT, 1/4-28, HEX HEAD                 | 2        | Blade   |   |
| COUNTERWEIGHT SLUG B-3851-0432 |                | WASHER                                 | 2        | Blade   | Optional  |
| COUNTERWEIGHT SLUG B-3851-0463 |                | WASHER                                 | 2        | Blade   | Optional  |
| DE-ICER                        | 4H1188-3       | DE-ICE BOOT                            | 1        | Blade   |   |
| DE-ICER                        | 4H1188-5       | DE-ICE BOOT                            | 1        | Blade   |   |
| DE-ICE KIT PR                  | 7931-65-090-1* | DE-ICE KIT (ONE PROP, W/O START LOCKS) | 1        | Prop    |   |
| DE-ICE KIT PR                  | 7931-77-490    | IDS ITEM - DE-ICE KIT                  | 1        | Prop    |   |
| MTG BOLT/STUD                  | B-3339         | BOLT, MOUNTING, 9/16-18, 12 POINT      | 8        | Prop    |   |
| MISC ACCES                     | A-4731         | BLOCK, BETA FEEDBACK- ASSEMBLY         | 2        | Prop    |   |
| OVERHAUL KIT                   | 65-090-1-OH*2  | DE-ICE O/H KIT, 4H1188-3 BOOT          | 1        | Prop    | For aftermarket use only (KIT FOR PROP WITHOUT START LOCKS) |
| OVERHAUL KIT                   | 65-090-1-OH*3  | DE-ICE O/H KIT, 4H1188-5 BOOT          | 1        | Prop    | For aftermarket use only (KIT FOR PROP WITHOUT START LOCKS) |
| OVERHAUL KIT                   | HC-B3TN-3B-OH  | O/H KIT                                | 1        | Prop    | For aftermarket use only (ALSO REPLACES A-2741)             |

# HARTZELL

## APPLICATION GUIDE

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DeHavilland Canada(Viking Air)

IDS No.: 1930 Rev.: 3 IC Date: 07/15/2015

**Model:** DHC-6-300, -310, -320

**Trade Name:** TWIN OTTER

**Aircraft T.C./STC:** A9EA

**Propeller Model:** HC-B3TN-3DY

**Propeller T.C.:** P15EA

**Blade Model(s):** T10282B\*2  
T10282NB\*2

**Prop Diameter:** 102.0" TO 100"

### Prop Setup:

**Ref. Radius:** 30

**Reverse Angle:** -15.0 +-0.5

**Low Pitch Angle:** 21.0 +-0.2

**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**Modifier:**

**Engine Model:** PT6A-27

**Power:** 620 HP @ 2110 RPM

**Placard/Restr:**

**Notes:** Canadian TC no. A-82. -310 series approved in UK, -320 series approved in Australia

**Startlock Angle:** 1.0 +-1.0

**Feather/High Angle:** 87.0 +-0.5

**Cwt Angle:** -1.5 TO POS.

**Non-HPI Governor:**

### Hartzell Approved Items:

| Item Type                      | Item Number     | Description                           | Quantity | Qty Per | Comments   |
|--------------------------------|-----------------|---------------------------------------|----------|---------|--|
| PROPELLER                      | B3N10592        | HC-B3TN-3DY/T10282NB[*2]/BULK         | 2        | A/C     |  |
| BLADE                          | T10282B*2       | IDS*ITEM,4E1188-5 BOOT @ 1.375        | 3        | Prop    |  |
| BLADE                          | T10282NB*2      | PCP:BLADE UNIT, ALUM 4H1188-5         | 3        | Prop    |  |
| SPINNER                        | C-3065-1        | SPINNER ASSEMBLY                      | 1        | Prop    |  |
| SPINNER                        | C-3065-1P       | SPINNER ASSEMBLY                      | 1        | Prop    |  |
| SP MT KIT DE-ICE               | A-2070-10       | SCREW, 1/4-28, BUTTON HEAD            | 3        | Prop    |  |
| SP MT KIT DE-ICE               | A-2070-7        | SCREW, 1/4-28, BUTTON HEAD            | 6        | Prop    |  |
| SP MT KIT DE-ICE               | A-2070-9        | SCREW, 1/4-28, BUTTON HEAD            | 3        | Prop    |  |
| SP MT KIT DE-ICE               | B-3808-4        | NUT,HEX,SELF-LOCKING                  | 12       | Prop    |  |
| SP MT KIT DE-ICE               | B-3837-0432     | WASHER, CORROSION RESISTANT           | 12       | Prop    |  |
| SP MT KIT DE-ICE               | B-7077-52       | BELLEVILLE SPRING WASHER              | 12       | Prop    |  |
| COUNTERWEIGHT SLUG A-3039      |                 | SLUG, COUNTERWEIGHT                   | 1        | Blade   |  |
| COUNTERWEIGHT SLUG A-890-6     |                 | PCP:SLUG, COUNTERWEIGHT               | 1        | Blade   | Primary  |
| COUNTERWEIGHT SLUG A-890-8     |                 | PCP:SLUG, COUNTERWEIGHT               | 1        | Blade   | Alternate  |
| COUNTERWEIGHT SLUG A-890-9     |                 | PCP:SLUG, COUNTERWEIGHT               | 1        | Blade   | Alternate  |
| COUNTERWEIGHT SLUG B-3384-21H  |                 | BOLT, 1/4-28, HEX HEAD                | 2        | Blade   |  |
| COUNTERWEIGHT SLUG B-3851-0432 |                 | WASHER                                | 2        | Blade   | Optional   |
| COUNTERWEIGHT SLUG B-3851-0463 |                 | WASHER                                | 2        | Blade   | Optional   |
| DE-ICER                        | 4H1188-5        | DE-ICE BOOT                           | 1        | Blade   | Supersedes 7931-4E1188-5                                 |
| DE-ICE KIT PR                  | 7931-65-090-1   | DE-ICE KIT (ONE PROP, W/ START-LOCKS) | 1        | Prop    |  |
| MTG BOLT/STUD                  | B-3339          | BOLT, MOUNTING, 9/16-18, 12 POINT     | 8        | Prop    |  |
| MISC ACCES                     | A-4731          | BLOCK, BETA FEEDBACK- ASSEMBLY        | 2        | Prop    |  |
| OVERHAUL KIT                   | 65-090-1-OH*1   | DE-ICE O/H KIT, 4H1188-5 BOOT         | 1        | Prop    | For aftermarket use only (KIT FOR PROP WITH START LOCKS) |
| OVERHAUL KIT                   | HC-B3TN-3DY-OH2 | O/H KIT, A-4731 CARBON BLOCK          | 1        | Prop    | For aftermarket use only                                 |

# HARTZELL

## APPLICATION GUIDE

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### DERRINGER AIRCRAFT CORP.

**Model:** D-1  
**Trade Name:** WING DERRINGER  
**Aircraft T.C./STC:** Experimental  
**Propeller Model:** HC-C2YL-2CUFP  
**Propeller T.C.:** P-920  
**Blade Model(s):** FC7068-2  
**Prop Diameter:** 68" TO 66"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 11.5 +-0.2  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 2428      **Rev.:** 2      **IC Date:** 03/31/2021

**Modifier:**  
**Engine Model:** IO-320-B1C, C1A  
**Power:** 160 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** 17.0 +-1.5  
**Feather/High Angle:** 78.0 +-1.0  
**Cwt Angle:**

#### Hartzell Approved Items:

| Item Type     | Item Number     | Description                      | Quantity | Qty Per | Comments                 |
|---------------|-----------------|----------------------------------|----------|---------|--------------------------|
| PROPELLER     | C2L10500        | HC-C2YL-2CUFP/FC7068-2           | 2        | A/C     |                          |
| BLADE         | FC7068-2        | PCP:BLADE UNIT, ALUMINUM         | 2        | Prop    |                          |
| SPINNER       | 836-29          | SPINNER ASSEMBLY                 | 1        | Prop    |                          |
| SPINNER       | 836-29P         | SPINNER ASSEMBLY                 | 1        | Prop    |                          |
| GOVERNOR      | F-6-53BZ        | GOVERNOR ASSEMBLY, F-6-( )       | 1        | Prop    |                          |
| COUNTERWEIGHT | B-3202H-4       | PCP:COUNTERWEIGHT                | 1        | Blade   | Blade Component          |
| MTG BOLT/STUD | A-2247-1        | STUD, MOUNTING, 7/16-20, DRILLED | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-C2YL-2CUF-OH | O/H KIT                          | 1        | Prop    | For aftermarket use only |

### DIAMOND AIRCRAFT

**Model:** DA 40  
**Trade Name:**  
**Aircraft T.C./STC:** SA01850CH  
**Propeller Model:** HC-C2YR-1BF  
**Propeller T.C.:** P-920  
**Blade Model(s):** F7495S  
**Prop Diameter:** 74" TO 72" MIN

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.5 +-0.2  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 1588      **Rev.:** 2      **IC Date:** 07/07/2015

**Modifier:** HARTZELL PROPELLER  
**Engine Model:** IO-360-M1A  
**Power:** 180 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 35.0 +-1.0  
**Cwt Angle:**

#### Hartzell Approved Items:

| Item Type     | Item Number    | Description                    | Quantity | Qty Per | Comments                 |
|---------------|----------------|--------------------------------|----------|---------|--------------------------|
| PROPELLER     | C2R00028       | HC-C2YR-1BF/F7495S/SM41        | 1        | A/C     |                          |
| PROPELLER     | C2R00028STP    | C2R00028/SM41/A-2295-P         | 1        | A/C     |                          |
| BLADE         | F7495S         | PCP:BLADE UNIT, ALUM [6,16,11] | 2        | Prop    |                          |
| SPINNER       | A-2295         | SPINNER ASSEMBLY               | 1        | Prop    |                          |
| SPINNER       | A-2295-P       | SPINNER ASSEMBLY               | 1        | Prop    |                          |
| SPIN MTG KIT  | A-2476-41      | SPINNER - MTG KIT              | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2067         | STUD, MOUNTING, 1/2-20         | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-C2YR-1BF-OH | O/H KIT                        | 1        | Prop    | For aftermarket use only |



# HARTZELL

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### DIAMOND AIRCRAFT

**Model:** DA40XL  
**Trade Name:** DiamondStar  
**Aircraft T.C./STC:** SA02476CH-D  
**Propeller Model:** HC-C2YR-1BFP  
**Propeller T.C.:** P-920  
**Blade Model(s):** F7497\*1  
                           F7497\*2  
**Prop Diameter:** 74" - 72"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.9 +-0.2  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

#### Hartzell Approved Items:

**IDS No.:** 2728      **Rev.:** 2      **IC Date:** 07/07/2015

**Modifier:** Hartzell Propeller  
**Engine Model:** IO-360-M1A  
**Power:** 180 HP @ 2700 RPM  
**Placard/Restr:**

**Notes:** Approved with or without PowerFlow exhaust system

**Startlock Angle:** NA  
**Feather/High Angle:** 29.0+-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>             | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|--------------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | C2R10706           | HC-C2YR-1BFP/F7497[*1]/SM41    | 1               | A/C            |                          |
| PROPELLER        | C2R10708           | HC-C2YR-1BFP/F7497[*2]/SM41    | 0               |                |                          |
| BLADE            | F7497*1            | PCP:BLADE UNIT, ALUM [6,16,11] | 2               | Prop           |                          |
| BLADE            | F7497*2            | PCP:BLADE UNIT, ALUM [6,15,11] | 2               | Prop           |                          |
| SPINNER          | A-2295             | SPINNER ASSEMBLY               | 1               | A/C            |                          |
| SPINNER          | A-2295-P           | SPINNER ASSEMBLY               | 1               | A/C            |                          |
| GOVERNOR         | S-1-6              | GOVERNOR ASSEMBLY, S-1-6       | 1               | A/C            |                          |
| SPIN MTG KIT     | A-2476-41          | SPINNER - MTG KIT              | 1               | Prop           |                          |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20         | 6               | Prop           |                          |
| MISC ACCES       | 102603             | KIT, OIL COOLER FACEPLATE      | 1               | A/C            |                          |
| OVERHAUL KIT     | HC-C2YR-1BF-OH     | O/H KIT                        | 1               | Prop           | For aftermarket use only |

# HARTZELL

## APPLICATION GUIDE 159

### DIAMOND AIRCRAFT

**Model:** DA40XL  
**Trade Name:** DIAMONDSTAR  
**Aircraft T.C./STC:** SA02476CH-D  
**Propeller Model:** HC-C2YR-1N  
**Propeller T.C.:** P-920  
**Blade Model(s):** N7605  
**Prop Diameter:** 76

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 11.0 +-0.2  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 2727      **Rev.:** 1      **BC Date:** 08/12/2014

**Modifier:** HARTZELL PROPELLER

**Engine Model:** IO-360-M1A

**Power:** 180 HP @ 2700 RPM

**Placard/Restr:**

**Notes:** Approved with or without PowerFlow exhaust system

**Startlock Angle:** NA

**Feather/High Angle:** 30.0 +-1.0

**Cwt Angle:** NA

**Non-HPI Governor:**

#### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>             | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>             |
|------------------|--------------------|--------------------------------|-----------------|----------------|-----------------------------|
| PROPELLER        | C2R31051           | HC-C2YR-1N/N7605/SM41          | 1               | A/C            |                             |
| BLADE            | N7605              | PCP:BLADE ASSY, COMPOSITE      | 2               | Prop           |                             |
| SPINNER          | A-2295             | SPINNER ASSEMBLY               | 1               | A/C            |                             |
| SPINNER          | A-2295-P           | SPINNER ASSEMBLY               | 1               | A/C            |                             |
| GOVERNOR         | S-1-6              | GOVERNOR ASSEMBLY, S-1-6       | 1               | A/C            |                             |
| SPIN MTG KIT     | A-2476-41          | SPINNER - MTG KIT              | 1               | Prop           |                             |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20         | 6               | Prop           |                             |
| MISC ACCES       | 102603             | KIT, OIL COOLER FACEPLATE      | 1               | A/C            |                             |
| MISC ACCES       | A-6741-158         | EROSION TAPE, 2" WIDE, 108' RL | 0               | Blade          | Included in blade BOM (12") |

# HARTZELL

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### Diamond Aircraft Industries

**Model:** DA 40 NG  
**Trade Name:** DA 40 NG  
**Aircraft T.C./STC:** SA04549CH  
**Propeller Model:** 3A1-QP460A1  
**Propeller T.C.:** P00013CH  
**Blade Model(s):** 75A01-2  
**Prop Diameter:** 74.0

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** 13.3 +/- 0.2  
**Stud Protrusion** 1.190 +/- .010

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number | Description                   | Quantity | Qty Per | Comments |
|---------------|-------------|-------------------------------|----------|---------|----------|
| PROPELLER     | 3AQ00350    | 3A1-QP460A1/75A01-2           | 1        | A/C     |          |
| PROPELLER     | 3AQ00350KD  | 3A1-QP460A1/75A01-2           | 1        | A/C     |          |
| BLADE         | 75A01-2     | PCP:BLADE ASSEMBLY, COMPOSITE | 3        | Prop    |          |
| SPINNER       | 108482      | SPINNER ASSEMBLY, COMPOSITE   | 1        | A/C     |          |
| SPINNER       | 108482F1    | SPINNER ASSEMBLY, COMPOSITE   | 1        | A/C     |          |
| SPINNER       | 108482F2    | SPINNER ASSEMBLY, COMPOSITE   | 1        | A/C     |          |
| SPIN MTG KIT  | A-2070-6    | SCREW, 1/4-28, BUTTON HEAD    | 6        | Prop    |          |
| SPIN MTG KIT  | B-3837-0463 | WASHER, CORROSION RESISTANT   | 6        | Prop    |          |
| SPIN MTG KIT  | C-3317-129  | O - RING                      | 1        | Prop    |          |
| MTG BOLT/STUD | A-2429-9    | STUD, MOUNTING, 1/2-20        | 6        | Prop    |          |

**IDS No.:** 3851      **Rev.:** 1      **IC Date:** 01/31/2022

**Modifier:** Hartzell Propeller Inc.  
**Engine Model:** E4-A  
**Power:** 166 HP @ 2300 RPM  
**Placard/Restr:** None.  
**Notes:**

**Startlock Angle:**  
**Feather/High Angle:** 31.0 +/- 1.0  
**Cwt Angle:**

**Non-HPI Governor:**

### DORNIER

**Model:** DO27Q-6  
**Trade Name:**  
**Aircraft T.C./STC:** A8IN  
**Propeller Model:** HC-A2X20-1, HC-82X20-1A, HC-A2X20-1A, HC-82X20-1B  
**Propeller T.C.:** P24EA  
**Blade Model(s):**  
**Prop Diameter:** 98" TO 96"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 14.6 +-0.2  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number | Description                | Quantity | Qty Per | Comments |
|---------------|-------------|----------------------------|----------|---------|----------|
| SPINNER       | 835-15      | SPINNER ASSEMBLY           | 1        | Prop    |          |
| MTG BOLT/STUD | A-63B       | PCP: NUT, SHAFT, 20 SPLINE | 1        | Prop    |          |
| MTG BOLT/STUD | A-63-B      | NUT,SHAFT,20 SPLINE        | 1        | Prop    |          |

**IDS No.:** 2172      **Rev.:** -      **DM Date:** 11/20/2003

**Modifier:**  
**Engine Model:** GO-480-B1A6  
**Power:** 270 HP @ 2182 RPM  
**Placard/Restr:**

**Notes:**  
**Startlock Angle:** NA  
**Feather/High Angle:** 31.9 +-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:**

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**DORNIER**

**Model:** DO27Q-6  
**Trade Name:**  
**Aircraft T.C./STC:** A8IN  
**Propeller Model:** HC-A2V20-1A  
**Propeller T.C.:** P24EA  
**Blade Model(s):** V10133N-3  
**Prop Diameter:** 98" TO 96"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 14.6 +-0.2  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 2315      **Rev.:** -      **DM Date:** 11/23/2003

**Modifier:**  
**Engine Model:** GO-480-B1A6  
**Power:** 270 HP @ 2182 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 31.9 +-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>         | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|----------------------------|-----------------|----------------|-----------------|
| BLADE            | V10133N-3          | BLADE UNIT, ALUMINUM       | 2               | Prop           |                 |
| SPINNER          | 835-15             | SPINNER ASSEMBLY           | 1               | Prop           |                 |
| MTG BOLT/STUD    | A-63B              | PCP: NUT, SHAFT, 20 SPLINE | 1               | Prop           |                 |
| MTG BOLT/STUD    | A-63-B             | NUT,SHAFT,20 SPLINE        | 1               | Prop           |                 |

**DORNIER**

**Model:** DO27Q-6  
**Trade Name:**  
**Aircraft T.C./STC:** A8IN  
**Propeller Model:** HC-A2MV20-1A  
**Propeller T.C.:** P24EA  
**Blade Model(s):** MV10133N-3  
**Prop Diameter:** 98" TO 96"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 14.6 +-0.2  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 477      **Rev.:** 2      **IC Date:** 07/06/2015

**Modifier:**  
**Engine Model:** GO-480-B1A6  
**Power:** 270 HP @ 2182 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 31.9 +-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>         | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|----------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | A2210100           | HC-A2MV20-1A/MV10133N-3    | 1               | A/C            |                          |
| BLADE            | MV10133N-3         | PCP:BLADE UNIT, ALUMINUM   | 2               | Prop           |                          |
| SPINNER          | 835-15             | SPINNER ASSEMBLY           | 1               | Prop           |                          |
| MTG BOLT/STUD    | A-63B              | PCP: NUT, SHAFT, 20 SPLINE | 1               | Prop           |                          |
| MTG BOLT/STUD    | A-63-B             | NUT,SHAFT,20 SPLINE        | 1               | Prop           |                          |
| OVERHAUL KIT     | HC-A2MV20-1A-OH    | O/H KIT                    | 1               | Prop           | For aftermarket use only |

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**DORNIER**

**Model:** DO28A-1  
**Trade Name:**  
**Aircraft T.C./STC:** 7A13  
**Propeller Model:** HC-A2MVK-2  
**Propeller T.C.:** P24EA  
**Blade Model(s):** MV8433N-2  
**Prop Diameter:** 82.3" TO 82"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.0 +-0.2  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 478      **Rev.:** -      **DM Date:** 01/14/2004

**Modifier:**  
**Engine Model:** O-540-A1D  
**Power:** 250 HP @ 2575 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 82.0 +-1.0  
**Cwt Angle:** Positive

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>            | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|-------------------------------|-----------------|----------------|-----------------|
| BLADE            | MV8433N-2          | PCP:BLADE UNIT, ALUMINUM      | 2               | Prop           |                 |
| SPINNER          | 835-14             | SPINNER ASSEMBLY              | 1               | Prop           |                 |
| MTG BOLT/STUD    | A-1328             | BOLT,MOUNTING,1/2-20,12 POINT | 4               | Prop           |                 |
| MTG BOLT/STUD    | A-1333             | BOLT,MOUNTING,1/2-20,HEX HEAD | 2               | Prop           |                 |
| MTG BOLT/STUD    | A-1333-3           | BOLT,MOUNTING,1/2-20,HEX HEAD | 2               | Prop           | ALT             |

**DORNIER**

**Model:** DO28A-1  
**Trade Name:**  
**Aircraft T.C./STC:** 7A13  
**Propeller Model:** HC-82XK-2, HC-A2XK-2  
**Propeller T.C.:** P24EA  
**Blade Model(s):** 8433-2  
**Prop Diameter:** 82.3" TO 82"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.0 +-0.2  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 2173      **Rev.:** -      **DM Date:** 01/14/2004

**Modifier:**  
**Engine Model:** O-540-A1D  
**Power:** 250 HP @ 2575 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 82.0 +-1.0  
**Cwt Angle:** Positive

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>            | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|-------------------------------|-----------------|----------------|-----------------|
| BLADE            | 8433-2             | BLADE                         | 2               | Prop           |                 |
| SPINNER          | 835-14             | SPINNER ASSEMBLY              | 1               | Prop           |                 |
| MTG BOLT/STUD    | A-1328             | BOLT,MOUNTING,1/2-20,12 POINT | 2               | Prop           |                 |
| MTG BOLT/STUD    | A-1333             | BOLT,MOUNTING,1/2-20,HEX HEAD | 2               | Prop           |                 |
| MTG BOLT/STUD    | A-1333-3           | BOLT,MOUNTING,1/2-20,HEX HEAD | 2               | Prop           | ALT             |

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**DORNIER**

**Model:** DO28A-1  
**Trade Name:**  
**Aircraft T.C./STC:** 7A13  
**Propeller Model:** HC-82VK-2, HC-A2VK-2  
**Propeller T.C.:** P24EA  
**Blade Model(s):** V8433-2  
V8433N-2  
**Prop Diameter:** 82.3" TO 82"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.0 +-0.2  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 2175      **Rev.:** -      **DM Date:** 01/14/2004

**Modifier:**  
**Engine Model:** O-540-A1D  
**Power:** 250 HP @ 2575 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 82.0 +-1.0  
**Cwt Angle:** Positive

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>            | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|-------------------------------|-----------------|----------------|-----------------|
| BLADE            | V8433-2            | BLADE                         | 2               | Prop           |                 |
| BLADE            | V8433N-2           | BLADE                         | 2               | Prop           |                 |
| SPINNER          | 835-14             | SPINNER ASSEMBLY              | 1               | Prop           |                 |
| MTG BOLT/STUD    | A-1328             | BOLT,MOUNTING,1/2-20,12 POINT | 4               | Prop           |                 |
| MTG BOLT/STUD    | A-1333             | BOLT,MOUNTING,1/2-20,HEX HEAD | 2               | Prop           |                 |
| MTG BOLT/STUD    | A-1333-3           | BOLT,MOUNTING,1/2-20,HEX HEAD | 2               | Prop           | ALT             |

**DORNIER**

**Model:** DO28B-1  
**Trade Name:**  
**Aircraft T.C./STC:** 7A13  
**Propeller Model:** HC-83VK-2C, HC-A3VK-2C  
**Propeller T.C.:** P6EA  
**Blade Model(s):** V8433-4  
V8433N-4  
**Prop Diameter:** 80.6" TO 80"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.5 +-0.2  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 2174      **Rev.:** -      **DM Date:** 11/20/2003

**Modifier:**  
**Engine Model:** IO-540-A1A5  
**Power:** 290 HP @ 2575 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 85.5 +-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>            | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|-------------------------------|-----------------|----------------|-----------------|
| BLADE            | V8433-4            | BLADE                         | 3               | Prop           |                 |
| BLADE            | V8433N-4           | BLADE                         | 3               | Prop           |                 |
| SPINNER          | C-2513             | SPINNER ASSEMBLY              | 1               | Prop           |                 |
| MTG BOLT/STUD    | A-1328             | BOLT,MOUNTING,1/2-20,12 POINT | 3               | Prop           |                 |
| MTG BOLT/STUD    | A-1333-3           | BOLT,MOUNTING,1/2-20,HEX HEAD | 3               | Prop           |                 |

# HARTZELL

DORNIER

**Model:** DO28B-1  
**Trade Name:**  
**Aircraft T.C./STC:** 7A13  
**Propeller Model:** HC-A3MVK-2C  
**Propeller T.C.:** P6EA  
**Blade Model(s):** MV8433N-4  
**Prop Diameter:** 80.6" TO 80"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.5 +-0.2

**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

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**IDS No.:** 479      **Rev.:** 1      **D**      **Date:** 01/07/2011

**Modifier:**  
**Engine Model:** IO-540-A1A5  
**Power:** 290 HP @ 2575 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 85.5 +-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>            | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|-------------------------------|-----------------|----------------|-----------------|
| BLADE            | MV8433N-4          | PCP:BLADE UNIT, ALUMINUM      | 3               | Prop           |                 |
| SPINNER          | C-2513             | SPINNER ASSEMBLY              | 1               | Prop           |                 |
| MTG BOLT/STUD    | A-1328             | BOLT,MOUNTING,1/2-20,12 POINT | 3               | Prop           |                 |
| MTG BOLT/STUD    | A-1333-3           | BOLT,MOUNTING,1/2-20,HEX HEAD | 3               | Prop           |                 |

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**DORNIER**

IDS No.: 480      Rev.: 1      D      Date: 01/07/2011

**Model:** DO28D, DO28D-1  
**Trade Name:** SKYSERVANT  
**Aircraft T.C./STC:** A16EU  
**Propeller Model:** HC-B3W30-2B  
**Propeller T.C.:** P2EA  
**Blade Model(s):** W10151-8R  
                           W10151B-8R  
                           W10151N-8R  
                           W10151NB-8R

**Modifier:**  
**Engine Model:** IGSO-540-A1E  
**Power:** 380 HP @ 2182 RPM  
**Placard/Restr:**  
**Notes:**

**Prop Diameter:** 93.5" TO 93"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 16.5 +/-0.3  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 85(T.C.),86(Hz)  
**Cwt Angle:** Positive

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u>   | <u>Item Number</u> | <u>Description</u>           | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|--------------------|--------------------|------------------------------|-----------------|----------------|--------------------------|
| BLADE              | W10151-8R          | BLADE UNIT, ALUMINUM         | 3               | Prop           | REPLACED BY W10151N-8R   |
| BLADE              | W10151B-8R         | BLADE UNIT, ALUMINUM         | 3               | Prop           | REPLACED BY W10151NB-8R  |
| BLADE              | W10151N-8R         | PCP:BLADE UNIT, ALUMINUM     | 3               | Prop           |                          |
| BLADE              | W10151NB-8R        | BLADE UNIT, ALUMINUM         | 3               | Prop           |                          |
| SPINNER            | 836-31SPR          | SPINNER ASSEMBLY             | 1               | Prop           |                          |
| SPINNER            | 836-32SPR          | SPINNER ASSEMBLY             | 1               | Prop           |                          |
| GOVERNOR           | B2                 | GOVERNOR ASSEMBLY, B-2-()    | 2               | A/C            |                          |
| COUNTERWEIGHT SLUG | A-619-2            | SLUG, COUNTERWEIGHT          | 2               | Blade          |                          |
| COUNTERWEIGHT SLUG | B-3840-8           | SCREW, 10-32, FILLISTER HEAD | 2               | Blade          |                          |
| DE-ICER            | 4H1188-3           | DE-ICE BOOT                  | 1               | Blade          | Supersedes 7931-4E1188-3 |
| DE-ICE KIT PR      | 7931-77-860        | IDS ITEM - DE-ICE KIT        | 1               | Prop           |                          |
| MTG BOLT/STUD      | B-1814             | IDS Item                     | 1               | Prop           | Secondary                |
| MTG BOLT/STUD      | B-1894             | PCP: NUT,SHAFT, 30 SPLINE    | 1               | Prop           | Primary                  |



# HARTZELL

## APPLICATION GUIDE

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**DORNIER**

IDS No.: 475      Rev.: 2      D      Date: 06/04/2013

**Model:** 128-6

**Trade Name:**

**Aircraft T.C./STC:** Unknown

**Propeller Model:** HC-B3TN-3D

**Propeller T.C.:** P15EA

**Blade Model(s):** T10282B-9.5  
T10282NB-9.5

**Prop Diameter:** 93.0"

**Prop Setup:**

**Ref. Radius:** 30

**Reverse Angle:** -10.75 +/-0.25

**Low Pitch Angle:** 18.5 +/-0.1

**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Modifier:**

**Engine Model:** PT6A-110

**Power:** 450 HP @ 1900 RPM

**Placard/Restr:**

**Notes:**

**Startlock Angle:** NA

**Feather/High Angle:** 85.5 +/-0.5

**Cwt Angle:** Positive

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u>               | <u>Item Number</u> | <u>Description</u>                | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|--------------------------------|--------------------|-----------------------------------|-----------------|----------------|--------------------------|
| BLADE                          | T10282B-9.5        | IDS ITEM, BLADE                   | 3               | Prop           |                          |
| BLADE                          | T10282NB-9.5       | PCP:BLADE UNIT, ALUMINUM          | 3               | Prop           |                          |
| SPINNER                        | C-3065-P           | SPINNER ASSEMBLY                  | 1               | Prop           |                          |
| COUNTERWEIGHT SLUG A-3039      |                    | SLUG, COUNTERWEIGHT               | 1               | Blade          |                          |
| COUNTERWEIGHT SLUG A-890-6     |                    | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          | Primary                  |
| COUNTERWEIGHT SLUG A-890-8     |                    | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          | Alternate                |
| COUNTERWEIGHT SLUG A-890-9     |                    | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          | Alternate                |
| COUNTERWEIGHT SLUG B-3384-21H  |                    | BOLT, 1/4-28, HEX HEAD            | 2               | Blade          |                          |
| COUNTERWEIGHT SLUG B-3851-0432 |                    | WASHER                            | 2               | Blade          | Optional                 |
| COUNTERWEIGHT SLUG B-3851-0463 |                    | WASHER                            | 2               | Blade          | Optional                 |
| DE-ICER                        | 4H1188-5           | DE-ICE BOOT                       | 1               | Blade          | Supersedes 7931-4E1188-5 |
| DE-ICE KIT PR                  | 7931-65-375        | IDS ITEM - DE-ICE KIT             | 1               | Prop           |                          |
| MTG BOLT/STUD                  | B-3339             | BOLT, MOUNTING, 9/16-18, 12 POINT | 8               | Prop           |                          |

# HARTZELL

## APPLICATION GUIDE

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**DORNIER**

**Model:** DO228-100,101,200,201,202

**Trade Name:** COMMUTER

**Aircraft T.C./STC:** A16EU

**Propeller Model:** HC-B4TN-5ML

**Propeller T.C.:** P40EA

**Blade Model(s):** LT10574FNS  
 LT10574FNBSB  
 LT10574FNBSB\*1  
 LT10574FS  
 LT10574FSB  
 LT10574FSB\*1

**Prop Diameter:** 106.0" TO 105.0"

**Prop Setup:**

**Ref. Radius:** 42  
**Reverse Angle:** -16.0 +-0.5  
**Low Pitch Angle:** see DO228 manual  
**Stud Protrusion**

**IDS No.:** 481      **Rev.:** 3      **IC Date:** 01/27/2020

**Modifier:**

**Engine Model:** TPE331-5-252D

**Power:** 715 HP @ 1591 RPM

**Placard/Restr:** Minimum gross weight applicable to all models is 3255 Kg (7132 lbs.) Avoid sustained operation below 1050 RPM during ground operation.

**Notes:** Paint clamp assy's & B-3663-2 & A-3039 slugs per cust. request; FOR PROP B4N10975KD (48) B-3851-0463 are extra washers needed for Assy and shipment of a prop that doesn't have a blkhd attached. The (48) washers are for setting Start-Lock angles. Discard the (48) washers upon prop install. to A/C.

**Startlock Angle:** -8.0 +-0.2

**Feather/High Angle:** 76.0 +-0.5

**Cwt Angle:** Positive

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type                      | Item Number     | Description                       | Quantity | Qty Per | Comments                  |
|--------------------------------|-----------------|-----------------------------------|----------|---------|---------------------------|
| PROPELLER                      | B4N10975        | HC-B4TN-5ML/LT10574FNS            | 2        | A/C     |                           |
| PROPELLER                      | B4N10975KD      | HC-B4TN-5ML/LT10574FNS            | 2        | A/C     |                           |
| BLADE                          | LT10574FNS      | PCP:BLADE UNIT, ALUMINUM          | 4        | Prop    |                           |
| BLADE                          | LT10574FNBSB    | PCP:BLADE UNIT, 4E2635-10         | 4        | Prop    |                           |
| BLADE                          | LT10574FNBSB*1  | PCP:BLADE UNIT, 4H2598-10         | 4        | Prop    |                           |
| BLADE                          | LT10574FS       | BLADE                             | 4        | Prop    |                           |
| BLADE                          | LT10574FSB      | BLADE                             | 4        | Prop    |                           |
| BLADE                          | LT10574FSB*1    | IDS*ITEM, 4E2598-10 BOOT          | 4        | Prop    |                           |
| SPINNER                        | D-3434-7        | SPINNER ASSEMBLY                  | 1        | Prop    |                           |
| COUNTERWEIGHT SLUG A-2038-4    |                 | SCREW, 1/4-28, CAP                | 2        | Blade   |                           |
| COUNTERWEIGHT SLUG A-3039      |                 | SLUG, COUNTERWEIGHT               | 1        | Blade   |                           |
| COUNTERWEIGHT SLUG B-3386-14H  |                 | BOLT,3/8-24,HEX HEAD              | 2        | Blade   |                           |
| COUNTERWEIGHT SLUG B-3663-2    |                 | PCP:SLUG, COUNTERWEIGHT           | 1        | Blade   |                           |
| COUNTERWEIGHT SLUG B-3834-0632 |                 | WASHER                            | 2        | Blade   |                           |
| DE-ICER                        | 4H2598-10       | DE-ICE BOOT                       | 1        | Blade   | Supersedes 7931-4E2598-10 |
| DE-ICER                        | 4H2635-10       | DE-ICE BOOT                       | 1        | Blade   | Supersedes 7931-4E2635-10 |
| DE-ICER                        | 7931-4E2635-7   | PROP DE-ICER                      | 1        | Blade   | Blade Component           |
| DE-ICE KIT PR                  | 7931-65-470-1   | DE-ICE KIT (ONE PROP)             | 1        | Prop    |                           |
| DE-ICE KIT PR                  | 7931-65-470-3   | DE-ICE KIT (ONE PROP)             | 1        | Prop    |                           |
| MTG BOLT/STUD                  | B-3339          | BOLT, MOUNTING, 9/16-18, 12 POINT | 8        | Prop    |                           |
| OVERHAUL KIT                   | 65-470-3-OH     | DE-ICE O/H KIT, 4H2598-10 BOOT    | 1        | Prop    | For aftermarket use only  |
| OVERHAUL KIT                   | HC-B4TN-5(J,M)L | O/H KIT                           | 1        | Prop    | For aftermarket use only  |

# HARTZELL

## APPLICATION GUIDE

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**DORNIER**

IDS No.: 482      Rev.: 7      IC      Date: 01/27/2020

**Model:** DO228-212  
**Trade Name:** COMMUTER  
**Aircraft T.C./STC:** A16EU  
**Propeller Model:** HC-B4TN-5ML  
**Propeller T.C.:** P40EA

**Modifier:**  
**Engine Model:** TPE331-5A-252D  
**Power:** 776 HP @ 1591 RPM

**Placard/Restr:** Minimum gross weight applicable to all models is 3255 Kg (7132 lbs.) The following restrictions applies to all models: "Avoid sustained operation below 1050 RPM during ground operation." The blades are shot peened between blade stations 7.0 and 30.0 on both face and camber sides.

**Blade Model(s):** LT10574FNSB  
 LT10574FNSB\*1  
 LT10574FSB  
 LT10574FSB\*1  
**Prop Diameter:** 106.0" TO 105.0"

**Notes:** Engine Ratings Note: TPE-5A-252D (840hp) 4E2635-10 17.25" (65-470-1); 4E2598-10 21" (65-470-3) Feather angle set per customer request 3/23/89.

**Prop Setup:**

**Ref. Radius:** 42  
**Reverse Angle:** -16.0 +/-0.5  
**Low Pitch Angle:** see DO228 manual  
**Stud Protrusion**

**Startlock Angle:** -8.0 +/-0.2  
**Feather/High Angle:** 76.0 +/-0.5  
**Cwt Angle:** POSITIVE

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u>               | <u>Item Number</u> | <u>Description</u>          | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>  |
|--------------------------------|--------------------|-----------------------------|-----------------|----------------|--|
| PROPELLER                      | B4N10940           | HC-B4TN-5ML/LT10574FNSB[*1] | 2               | A/C            | Prop assembly, includes prop side de-ice, but no bulkhead. Blades with 4H2598-10 de-icer                                       |
| PROPELLER                      | B4N10940KD         | HC-B4TN-5ML/LT10574FNSB[*1] | 2               | A/C            | Prop assembly, includes prop side de-ice, but no bulkhead. Blades with 4H2598-10 de-icer. Knocked down for shipment            |
| PROPELLER                      | B4N10940SKD        | HC-B4TN-5ML/LT10574FNSB[*1] | 2               | A/C            | Prop assembly, includes prop side de-ice and full spinner with dome. Blades with 4H2598-10 de-icer. Knocked down for shipment. |
| PROPELLER                      | B4N10941           | HC-B4TN-5ML/LT10574FNSB[*1] | 2               | A/C            | Prop assembly, includes bulkhead and prop side de-ice. Blades with 4H2598-10 de-icer   |
| PROPELLER                      | B4N10965           | HC-B4TN-5ML/LT10574FNSB     | 2               | A/C            |  |
| PROPELLER                      | B4N10965KD         | HC-B4TN-5ML/LT10574FNSB     | 2               | A/C            | Prop assembly, includes prop side de-ice, but no bulkhead. Blades with 4H2635-10 de-icer. Knocked down for shipment.           |
| BLADE                          | LT10574FNSB        | PCP:BLADE UNIT, 4E2635-10   | 4               | Prop           |  |
| BLADE                          | LT10574FNSB*1      | PCP:BLADE UNIT, 4H2598-10   | 4               | Prop           |  |
| BLADE                          | LT10574FSB         | BLADE                       | 4               | Prop           |  |
| BLADE                          | LT10574FSB*1       | IDS*ITEM, 4E2598-10 BOOT    | 4               | Prop           |  |
| SPINNER                        | D-3434-7           | SPINNER ASSEMBLY            | 1               | Prop           | Buffed spinner, surface suitable for paint   |
| SPINNER                        | D-3434-7P          | SPINNER ASSEMBLY            | 1               | Prop           | Polished spinner   |
| COUNTERWEIGHT SLUG A-2038-4    |                    | SCREW, 1/4-28, CAP          | 2               | Blade          | Included with every propeller on this IDS  |
| COUNTERWEIGHT SLUG A-3039      |                    | SLUG, COUNTERWEIGHT         | 1               | Blade          | Included with every propeller on this IDS  |
| COUNTERWEIGHT SLUG B-3386-14H  |                    | BOLT,3/8-24,HEX HEAD        | 2               | Blade          | Included with every propeller on this IDS  |
| COUNTERWEIGHT SLUG B-3663-2    |                    | PCP:SLUG, COUNTERWEIGHT     | 1               | Blade          | Included with every propeller on this IDS  |
| COUNTERWEIGHT SLUG B-3834-0632 |                    | WASHER                      | 2               | Blade          | Included with every propeller on this IDS  |

|               |                 |                                   |   |       |   |
|---------------|-----------------|-----------------------------------|---|-------|---|
| DE-ICER       | 4H2598-10       | DE-ICE BOOT                       | 1 | Blade | Supersedes 7931-4E2598-10   |
| DE-ICER       | 4H2635-10       | DE-ICE BOOT                       | 1 | Blade | Supersedes 7931-4E2635-10   |
| DE-ICER       | 7931-4E2635-7   | PROP DE-ICER                      | 1 | Blade | Blade Component   |
| DE-ICE KIT PR | 7931-65-470-1   | DE-ICE KIT (ONE PROP)             | 1 | Prop  | Kit used in conjunction with LT10574FNSB blade (4E2635-10 boot)   |
| DE-ICE KIT PR | 7931-65-470-3   | DE-ICE KIT (ONE PROP)             | 1 | Prop  | Kit used in conjunction with LT10574FNSB*1 blade (4H2598-10 boot) |
| MTG BOLT/STUD | B-3339          | BOLT, MOUNTING, 9/16-18, 12 POINT | 8 | Prop  | Included with every propeller on this IDS                         |
| OVERHAUL KIT  | 65-470-3-OH     | DE-ICE O/H KIT, 4H2598-10 BOOT    | 1 | Prop  | For aftermarket use only  |
| OVERHAUL KIT  | HC-B4TN-5(J,M)L | O/H KIT                           | 1 | Prop  | For aftermarket use only  |

### DORNIER

IDS No.: 1152 Rev.: 2 IC Date: 01/18/2016

**Model:** DO328-110

**Trade Name:**

**Aircraft T.C./STC:** A45NM

**Propeller Model:** HD-E6C-3B

**Propeller T.C.:** P34NE

**Modifier:**

**Engine Model:** PW119B

**Power:** 2180 HP @ 1300 RPM

**Placard/Restr:** A) Stabilized ground operation is prohibited between 350 and 600 RPM. The propeller may be operated when feathered at or below 350 RPM. B) Avoid stabilized ground operation between 750 and 925 RPM whenever surface winds are from behind the propeller disk and are above 25 knots.

**Blade Model(s):** E13890K  
E13890K(SO)

**Prop Diameter:** 142.0"

**Notes:** Beta Light Switch activation: 3.0 +-1.0 below low pitch setting. Reference Maintenance Manual 161 for Airworthiness limitations.

#### Prop Setup:

**Ref. Radius:** 54

**Reverse Angle:** -15.1 +-0.5

**Low Pitch Angle:** 17.0 +-0.1

**Stud Protrusion**

**Startlock Angle:** NA

**Feather/High Angle:** 77.0 +-0.5

**Cwt Angle:**

#### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:**

#### Hartzell Approved Items:

| Item Type      | Item Number  | Description                    | Quantity | Qty Per | Comments                    |
|----------------|--------------|--------------------------------|----------|---------|-----------------------------|
| PROPELLER      | E6C00058     | HDE6C-3B COMP.LESS TUBE & DOME | 2        | A/C     |                             |
| PROPELLER      | E6C00058KD   | HD-E6C-3B/E13890K/LESSTUBEDOME | 2        | A/C     |                             |
| BLADE          | E13890K      | PCP:BLADE ASSY, COMPOSITE      | 6        | Prop    |                             |
| BLADE          | E13890K(SO)  | PCP:BLADE, SHIP-OUT W/ BEARING | 6        | Prop    | SHIP-OUT BLADE              |
| SPINNER        | E-5579-6     | SPINNER ASSEMBLY, COMPOSITE    | 1        | Prop    |                             |
| GOVERNOR       | D-1199-2     | PROPELLER CONTROL UNIT         | 2        | A/C     |                             |
| DE-ICER        | 7931-B6442   | PROP DE-ICER                   | 1        | Blade   | Blade Component             |
| DE-ICER        | B-6442       | DE-ICE BOOT                    | 1        | Blade   | Supersedes 7931-B6442       |
| DE-ICE KIT PR  | 7931-E6244-1 | DE-ICE KIT                     | 1        | Prop    |                             |
| DE-ICE KIT A/F | 7931-E6244-2 | AIRFRAME DE-ICE KIT            | 2        | A/C     |                             |
| MTG BOLT/STUD  | C-6006       | NUT,MOUNTING,9/16-18,12 POINT  | 16       | Prop    |                             |
| MISC ACCES     | A-6741-158   | EROSION TAPE, 2" WIDE, 108' RL | 0        | Blade   | Included in blade BOM (36") |
| MISC ACCES     | B-5926       | ELECTRICAL CONNECTOR KIT       | 1        | A/C     |                             |
| MISC ACCES     | B-6324       | AIRFRAME ELEC.HARDWARE         | 1        | A/C     |                             |
| MISC ACCES     | B-6325       | ENGINE MOUNTED ACCESS.         | 2        | A/C     |                             |
| MISC ACCES     | C-6000       | AUXILIARY PUMP ASSEMBLY        | 2        | A/C     |                             |
| MISC ACCES     | D-5114-3     | TRANSFER TUBE - ASSEMBLY       | 1        | Prop    |                             |
| MISC ACCES     | D-5604       | SYNCHROPHASER COMPUTER         | 1        | A/C     |                             |
| MISC ACCES     | D-5990-1     | HYDRAULICS UNIT                | 1        | Prop    |                             |
| MISC ACCES     | D-6001       | Q.A.D - CLAMP ASSEMBLY         | 2        | A/C     |                             |
| MISC ACCES     | D-6004       | OVERSP.GOV/HIPR PUMP ASSY      | 2        | A/C     |                             |

# HARTZELL

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DOUGLAS

**Model:** DC-3C  
**Trade Name:**  
**Aircraft T.C./STC:** STC SA3820SW  
**Propeller Model:** HC-B5MP-3C  
**Propeller T.C.:** P44GL

**IDS No.:** 484      **Rev.:** 2      **IC Date:** 07/06/2015  
**Modifier:** GREENWICH AIRCRAFT CORP.  
**Engine Model:** PT6A-65AR  
**Power:** 1230 HP @ 1700 RPM  
**Placard/Restr:** Stabilized ground operation below 900 RPM is prohibited, except when propeller is feathered operation at or below 400 RPM is permissible. Stabilized operation between 1170 & 1400 RPM is prohibited.  
 Recommendation: Taxi between 900 & 1170 RPM in order to keep operation to a minimum through 1170-1400 RPM range in cross tail winds, advance through 1170 RPM only after aircraft is lined up with runway for take-off.

**Blade Model(s):** M10876ANS  
 M10876ANSK  
 M10876NS  
 M10876NSK

**Notes:** Refer to IDS 1270 for same STC with PT6A-67R engine.

**Prop Diameter:** 111.2"

**Prop Setup:**

**Ref. Radius:** 42  
**Reverse Angle:** -11.0 +-0.5  
**Low Pitch Angle:** 13.0 +-0.2  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 79.0 +-0.5  
**Cwt Angle:** 2.5 +-1.0

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type          | Item Number   | Description                       | Quantity | Qty Per | Comments                 |
|--------------------|---------------|-----------------------------------|----------|---------|--------------------------|
| PROPELLER          | B5P10102KD    | HC-B5MP-3C/M10876ANSK/BULKHEAD    | 2        | A/C     |                          |
| PROPELLER          | B5P10102S     | HC-B5MP-3C/M10876ANSK/D3434-8P    | 0        |         |                          |
| PROPELLER          | B5P10102SKD   | HC-B5MP-3C/M10876ANSK/D3434-8P    | 2        | A/C     |                          |
| BLADE              | M10876ANS     | PCP:BLADE UNIT, ALUMINUM          | 5        | Prop    |                          |
| BLADE              | M10876ANSK    | PCP:BLADE UNIT, ALUM, 4H2595-7    | 5        | Prop    |                          |
| BLADE              | M10876NS      | IDS ITEM, BLADE                   | 5        | Prop    |                          |
| BLADE              | M10876NSK     | IDS ITEM, BLADE, 4E2595-7 BOOT    | 5        | Prop    |                          |
| SPINNER            | D-3434-8      | SPINNER ASSEMBLY                  | 1        | Prop    |                          |
| SPINNER            | D-3434-8P     | SPINNER ASSEMBLY                  | 1        | Prop    |                          |
| SPIN MTG KIT       | B-3384-4      | BOLT, 1/4-28, HEX HEAD            | 10       | Prop    |                          |
| SPIN MTG KIT       | B-3808-4      | NUT,HEX,SELF-LOCKING              | 10       | Prop    |                          |
| SPIN MTG KIT       | B-3851-0463   | WASHER                            | 10       | Prop    |                          |
| SP MT KIT DE-ICE   | B-3384-8H     | BOLT, 1/4-28, HEX HEAD            | 10       | Prop    |                          |
| SP MT KIT DE-ICE   | B-3808-4      | NUT,HEX,SELF-LOCKING              | 10       | Prop    |                          |
| SP MT KIT DE-ICE   | B-3837-0432   | WASHER, CORROSION RESISTANT       | 10       | Prop    |                          |
| SP MT KIT DE-ICE   | B-7077-52     | BELLEVILLE SPRING WASHER          | 10       | Prop    |                          |
| COUNTERWEIGHT SLUG | B-3343        | PCP:SLUG, COUNTERWEIGHT           | 1        | Blade   |                          |
| COUNTERWEIGHT SLUG | B-3386-14H    | BOLT,3/8-24,HEX HEAD              | 2        | Blade   |                          |
| COUNTERWEIGHT SLUG | B-3834-0632   | WASHER                            | 2        | Blade   |                          |
| DE-ICER            | 4H2595-7      | DE-ICE BOOT                       | 1        | Blade   | Supersedes 7931-4E2595-7 |
| DE-ICE KIT PR      | 7931-67-570-1 | DE-ICE KIT (ONE PROP)             | 1        | Prop    |                          |
| MTG BOLT/STUD      | B-3339        | BOLT, MOUNTING, 9/16-18, 12 POINT | 8        | Prop    |                          |
| MISC ACCES         | A-3044        | BLOCK, BETA FEEDBACK- ASSEMBLY    | 2        | Prop    |                          |
| OVERHAUL KIT       | HC-B5MP-3C-OH | O/H KIT                           | 1        | Prop    | For aftermarket use only |

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**DOUGLAS**

**Model:** DC-3C  
**Trade Name:**  
**Aircraft T.C./STC:** STC-SA4840NM  
**Propeller Model:** HC-B5MA-3  
**Propeller T.C.:** P44GL  
**Blade Model(s):** M11276K  
M11276NK  
**Prop Diameter:** 115.2" TO 114.7"

**IDS No.:** 483      **Rev.:** 1      **IC Date:** 07/06/2015

**Modifier:** BASLER TURBO CONVERSIONS  
**Engine Model:** PT6A-67R  
**Power:** 1281 HP @ 1700 RPM  
**Placard/Restr:**  
**Notes:**

**Prop Setup:**

**Ref. Radius:** 42  
**Reverse Angle:** -10.0 +-0.5  
**Low Pitch Angle:** 14.5 +-0.1  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 83.1 +-0.5  
**Cwt Angle:** 2.0 +-1.0

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u>   | <u>Item Number</u> | <u>Description</u>             | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|--------------------|--------------------|--------------------------------|-----------------|----------------|--------------------------|
| PROPELLER          | B5A10020S          | HC-B5MA-3/M11276NK/D-5497-P    | 2               | A/C            |                          |
| BLADE              | M11276K            | BLADE, 4E2595-7 BOOT           | 5               | Prop           |                          |
| BLADE              | M11276NK           | PCP:BLADE UNIT, ALUMINUM       | 5               | Prop           |                          |
| SPINNER            | D-5497-P           | SPINNER ASSEMBLY               | 1               | Prop           |                          |
| SPIN MTG KIT       | B-3808-4           | NUT,HEX,SELF-LOCKING           | 10              | Prop           |                          |
| SPIN MTG KIT       | B-3837-0432        | WASHER, CORROSION RESISTANT    | 10              | Prop           |                          |
| SPIN MTG KIT       | B-3874-10A         | BOLT, 1/4-28, HEX HEAD         | 10              | Prop           |                          |
| COUNTERWEIGHT SLUG | B-3386-14H         | BOLT,3/8-24,HEX HEAD           | 2               | Blade          |                          |
| COUNTERWEIGHT SLUG | B-3663-4           | PCP:SLUG, COUNTERWEIGHT        | 1               | Blade          |                          |
| COUNTERWEIGHT SLUG | B-3834-0632        | WASHER                         | 2               | Blade          |                          |
| DE-ICER            | 4H2595-7           | DE-ICE BOOT                    | 1               | Blade          | Supersedes 7931-4E2595-7 |
| DE-ICE KIT PR      | 7931-67-625-1      | DE-ICE KIT (ONE PROP)          | 1               | Prop           |                          |
| MTG BOLT/STUD      | B-3347             | BOLT,MOUNTING,9/16-18,12 POINT | 12              | Prop           |                          |
| OVERHAUL KIT       | 67-625-1-OH        | DE-ICE O/H KIT, 4H2595-7 BOOT  | 1               | Prop           | For aftermarket use only |
| OVERHAUL KIT       | HC-B5MA-3-OH       | O/H KIT                        | 1               | Prop           | For aftermarket use only |

# HARTZELL

DOUGLAS

**Model:** DC-3C  
**Trade Name:**  
**Aircraft T.C./STC:** STC SA3820SW  
**Propeller Model:** HC-B5MA-3J  
**Propeller T.C.:** P44GL

**Blade Model(s):** M10876ANS  
M10876ANSK  
**Prop Diameter:** 111.0" TO 110.7"

### Prop Setup:

**Ref. Radius:** 42  
**Reverse Angle:** -11.0 +-0.5  
**Low Pitch Angle:** 13.0 +-0.2  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

### Hartzell Approved Items:

| <u>Item Type</u>               | <u>Item Number</u> | <u>Description</u>             | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|--------------------------------|--------------------|--------------------------------|-----------------|----------------|--------------------------|
| PROPELLER                      | B5A00140S          | HC-B5MA-3J/M10876ANSK/D5574P   | 2               | A/C            |                          |
| BLADE                          | M10876ANS          | PCP:BLADE UNIT, ALUMINUM       | 5               | Prop           |                          |
| BLADE                          | M10876ANSK         | PCP:BLADE UNIT, ALUM, 4H2595-7 | 5               | Prop           |                          |
| SPINNER                        | D-5574-P           | SPINNER ASSEMBLY               | 1               | Prop           |                          |
| COUNTERWEIGHT SLUG B-3343      |                    | PCP:SLUG, COUNTERWEIGHT        | 1               | Blade          |                          |
| COUNTERWEIGHT SLUG B-3386-14H  |                    | BOLT,3/8-24,HEX HEAD           | 2               | Blade          |                          |
| COUNTERWEIGHT SLUG B-3834-0632 |                    | WASHER                         | 2               | Blade          |                          |
| DE-ICER                        | 4H2595-7           | DE-ICE BOOT                    | 1               | Blade          | Supersedes 7931-4E2595-7 |
| DE-ICE KIT PR                  | 7931-67-855-1      | DE-ICE KIT                     | 1               | Prop           |                          |
| MTG BOLT/STUD                  | B-3347             | BOLT,MOUNTING,9/16-18,12 POINT | 12              | Prop           |                          |

## APPLICATION GUIDE

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**IDS No.:** 1270      **Rev.:** 2      **IC Date:** 05/25/2021

**Modifier:** GREENWICH AIRCRAFT CORP.

**Engine Model:** PT6A-67R

**Power:** 1230 HP @ 1700 RPM

**Placard/Restr:** Stabilized ground operation below 900 RPM prohibited, except when prop is feathered operation at or below 400 RPM is permissible. B. Stabilized ground operation between 1170 & 1400 RPM is prohibited. C. Engine must be equipped with a propeller governor capable of scheduling down to at least 1170 RPM. The propeller blades must be shot peened between stations 7.0 and 30.0 on both face and camber sides. See approval for additional shot peen specifics.

**Notes:** Refer to IDS 484 for same STC with PT6A-65AR engine. Reference Manual 139 for Airworthiness Limitations.

**Startlock Angle:** NA

**Feather/High Angle:** 79.0 +-0.5

**Cwt Angle:** 2.5 +-1.0

**Non-HPI Governor:**

# HARTZELL

## APPLICATION GUIDE 159

DOUGLAS

IDS No.: 1834 Rev.: 2 IC Date: 07/06/2015

**Model:** DC-3C  
**Trade Name:**  
**Aircraft T.C./STC:** SA4840NM  
**Propeller Model:** HC-B5MA-3M  
**Propeller T.C.:** P44GL

**Modifier:** BASLER  
**Engine Model:** PT6A-67R  
**Power:** 1281 HP @ 1700 RPM  
**Placard/Restr:** Stabilized ground operation is prohibited between 400 and 900 RPM. The propeller may be operated when feathered at or below 400 RPM.; Stabilized ground operation is prohibited above 1600 RPM except when aircraft is headed into the wind. For downwind takeoffs advance above 1600 RPM only after brake release.

**Blade Model(s):** M11691NS  
M11691NSK  
**Prop Diameter:** 118.7" TO 118.2"

**Notes:**

**Prop Setup:**

**Ref. Radius:** 42  
**Reverse Angle:** -10.0 +-0.5  
**Low Pitch Angle:** 16.9 +-0.1  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 84.0 +-0.5  
**Cwt Angle:** 2.0 +-1.0

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type          | Item Number   | Description                    | Quantity | Qty Per | Comments                 |
|--------------------|---------------|--------------------------------|----------|---------|--------------------------|
| PROPELLER          | B5A10242S     | HC-B5MA-3M/M11691NSK/D-5497P   | 2        | A/C     |                          |
| PROPELLER          | B5A10242SKD   | HC-B5MA-3M/M11691NSK/D-5497P   | 2        | A/C     |                          |
| PROPELLER          | B5A10244      | HC-B5MA-3M/M11691NS            | 2        | A/C     |                          |
| PROPELLER          | B5A10244S     | HC-B5MA-3M/M11691NS/D-5497P    | 2        | A/C     |                          |
| BLADE              | M11691NS      | PCP:BLADE UNIT, ALUMINUM       | 5        | Prop    |                          |
| BLADE              | M11691NSK     | PCP:BLADE UNIT, ALUMINUM       | 5        | Prop    |                          |
| SPINNER            | D-5497-P      | SPINNER ASSEMBLY               | 1        | Prop    |                          |
| SPIN MTG KIT       | B-3384-6H     | BOLT, 1/4-28, HEX HEAD         | 10       | Prop    |                          |
| SPIN MTG KIT       | B-3851-0463   | WASHER                         | 10       | Prop    |                          |
| SP MT KIT DE-ICE   | B-3808-4      | NUT,HEX,SELF-LOCKING           | 10       | Prop    |                          |
| SP MT KIT DE-ICE   | B-3837-0432   | WASHER, CORROSION RESISTANT    | 10       | Prop    |                          |
| SP MT KIT DE-ICE   | B-3874-10A    | BOLT, 1/4-28, HEX HEAD         | 10       | Prop    |                          |
| SP MT KIT DE-ICE   | B-7077-52     | BELLEVILLE SPRING WASHER       | 10       | Prop    |                          |
| COUNTERWEIGHT SLUG | B-3386-14H    | BOLT,3/8-24,HEX HEAD           | 2        | Blade   |                          |
| COUNTERWEIGHT SLUG | B-3663-5      | SLUG, COUNTERWEIGHT            | 1        | Blade   |                          |
| COUNTERWEIGHT SLUG | B-3834-0632   | WASHER                         | 2        | Blade   |                          |
| DE-ICER            | 4H2595-7      | DE-ICE BOOT                    | 1        | Blade   | Supersedes 7931-4E2595-7 |
| DE-ICE KIT PR      | 7931-67-625-1 | DE-ICE KIT (ONE PROP)          | 1        | Prop    |                          |
| MTG BOLT/STUD      | B-3347        | BOLT,MOUNTING,9/16-18,12 POINT | 12       | Prop    |                          |
| OVERHAUL KIT       | 67-625-1-OH   | DE-ICE O/H KIT, 4H2595-7 BOOT  | 1        | Prop    | For aftermarket use only |
| OVERHAUL KIT       | HC-B5MA-3M-OH | O/H KIT                        | 1        | Prop    | For aftermarket use only |



# HARTZELL

## DREAM AIRCRAFT

**Model:** Tundra  
**Trade Name:**  
**Aircraft T.C./STC:** Experimental  
**Propeller Model:** HC-C2YR-1BF  
**Propeller T.C.:** P-920

**Blade Model(s):** F8477-4\*2  
**Prop Diameter:** 80" to 78"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** 10.0 +/- 0.2  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>           | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|------------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | C2R00066           | HC-C2YR-1BF/F8477-4[*2]/SM16 | 1               | A/C            |                          |
| BLADE            | F8477-4*2          | PCP:BLADE UNIT, ALUM [6,1,1] | 2               | Prop           |                          |
| SPIN MTG KIT     | A-2476-16          | SPINNER - MTG KIT            | 1               | Prop           |                          |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20       | 6               | Prop           |                          |
| MISC ACCES       | C-1576             | DAMPER ASSEMBLY              | 1               | Prop           |                          |
| OVERHAUL KIT     | HC-C2YR-1BF-OH     | O/H KIT                      | 1               | Prop           | For aftermarket use only |

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**IDS No.:** 2960      **Rev.:** 1      **IC Date:** 07/07/2015

**Modifier:**  
**Engine Model:** XP-0-360-B1BC2  
**Power:** 180 HP @ 2700 RPM  
**Placard/Restr:** C-1576 Damper Assembly must be installed with this prop.

### **Notes:**

**Startlock Angle:**  
**Feather/High Angle:** 31.0 +/- 1.0  
**Cwt Angle:**

**Non-HPI Governor:**

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# HARTZELL

## APPLICATION GUIDE

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EL GAVILAN S.A.

IDS No.: 1651 Rev.: 1 IC Date: 07/16/2015

Model: 358  
 Trade Name: GAVILAN  
 Aircraft T.C./STC: A00002NY  
 Propeller Model: HC-C3YR-1RF  
 Propeller T.C.: P25EA  
 Blade Model(s): F8468A-6R  
 Prop Diameter: 80" NO CUTOFF

Modifier:  
 Engine Model: TIO-540-W2A  
 Power: 350 HP @ 2600 RPM  
 Placard/Restr:  
 Notes:

**Prop Setup:**

Ref. Radius: 30  
 Reverse Angle: NA  
 Low Pitch Angle: 12.4 +-0.1  
 Stud Protrusion

Startlock Angle: NA  
 Feather/High Angle: 34.0 +-1.0  
 Cwt Angle:

**Non-HPI Items:**

Non-HPI Spinner:

Non-HPI Governor:

**Hartzell Approved Items:**

| Item Type     | Item Number    | Description                  | Quantity | Qty Per | Comments                 |
|---------------|----------------|------------------------------|----------|---------|--------------------------|
| PROPELLER     | C3R00071       | HC-C3YR-1RF/F8468A-6R/SM6    | 1        | A/C     |                          |
| BLADE         | F8468A-6R      | PCP:BLADE UNIT, ALUM [1,1,1] | 3        | Prop    |                          |
| SPINNER       | C-3570         | SPINNER ASSEMBLY             | 1        | Prop    |                          |
| GOVERNOR      | V3-9           | GOVERNOR ASSEMBLY, V-3-()    | 1        | A/C     |                          |
| SPIN MTG KIT  | A-2476-6       | SPINNER - MTG KIT            | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2067         | STUD, MOUNTING, 1/2-20       | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-C3YR-1RF-OH | O/H KIT                      | 1        | Prop    | For aftermarket use only |

EMBRAER

IDS No.: 3334 Rev.: 2 IC Date: 11/09/2015

Model: M203  
 Trade Name: IPANEMA  
 Aircraft T.C./STC: Unknown  
 Propeller Model: HC-E3YR-1RF  
 Propeller T.C.: P33EA  
 Blade Model(s): F8468AR  
 Prop Diameter: 86"

Modifier:  
 Engine Model: IO-540-K1J5  
 Power: 320 HP @ 2700 RPM  
 Placard/Restr:  
 Notes:

**Prop Setup:**

Ref. Radius: 30  
 Reverse Angle:  
 Low Pitch Angle: 11.0 +-0.2  
 Stud Protrusion

Startlock Angle:  
 Feather/High Angle: 31.0+-01.0  
 Cwt Angle:

**Non-HPI Items:**

Non-HPI Spinner:

Non-HPI Governor:

**Hartzell Approved Items:**

| Item Type     | Item Number    | Description                  | Quantity | Qty Per | Comments                 |
|---------------|----------------|------------------------------|----------|---------|--------------------------|
| PROPELLER     | E3R00089       | HC-E3YR-1RF/F8468AR/SM25     | 1        | A/C     |                          |
| PROPELLER     | E3R00089KD     | HC-E3YR-1RF/F8468AR/SM25     | 1        | A/C     |                          |
| BLADE         | F8468AR        | PCP:BLADE UNIT, ALUM [1,1,1] | 3        | Prop    |                          |
| SPINNER       | A-2295-1       | SPINNER ASSEMBLY             | 1        | Prop    |                          |
| SPINNER       | A-2295-1P      | SPINNER ASSEMBLY             | 1        | Prop    |                          |
| GOVERNOR      | S-1-55         | GOVERNOR ASSEMBLY, S-1-55    | 1        | A/C     |                          |
| SPIN MTG KIT  | A-2476-25      | SPINNER - MTG KIT            | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2067         | STUD, MOUNTING, 1/2-20       | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-E3YR-1RF-OH | O/H KIT                      | 1        | Prop    | For aftermarket use only |

# HARTZELL

## APPLICATION GUIDE

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EMBRAER

IDS No.: 486 Rev.: 4 IC Date: 07/15/2015

**Model:** EMB-110-P1,-P2  
**Trade Name:** BANDEIRANTE  
**Aircraft T.C./STC:** A21SO  
**Propeller Model:** HC-B3TN-3C, HC-B3TN-3D  
**Propeller T.C.:** P15EA  
**Blade Model(s):** T10178B-8R  
 T10178NB-8R  
**Prop Diameter:** 93.5" TO 93.0"

**Modifier:**  
**Engine Model:** PT6A-34  
**Power:** 750 HP @ 2200 RPM  
**Placard/Restr:**  
**Notes:** Spinner see SA 8

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** -11.0 +/-0.5  
**Low Pitch Angle:** 20.2 +/-0.2  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 88.1 +/-1.0  
**Cwt Angle:** Positive

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type                      | Item Number   | Description                       | Quantity | Qty Per | Comments                 |
|--------------------------------|---------------|-----------------------------------|----------|---------|--------------------------|
| PROPELLER                      | B3N10295      | HC-B3TN-3C/T10178NB-8R/DE-ICE     | 2        | A/C     |                          |
| PROPELLER                      | B3N10295KD    | HC-B3TN-3C/T10178NB-8R/DE-ICE     | 2        | A/C     |                          |
| BLADE                          | T10178B-8R    | BLADE (NO.6), 4E1188-6 BOOT       | 3        | Prop    |                          |
| BLADE                          | T10178NB-8R   | PCP: BLADE UNIT, AL 4H1188-6 BOOT | 3        | Prop    |                          |
| SPINNER                        | D-3434-12P    | SPINNER ASSEMBLY                  | 1        | Prop    |                          |
| SPINNER                        | D-3434-17P    | SPINNER ASSEMBLY                  | 1        | Prop    |                          |
| SPINNER                        | D-3434-5      | SPINNER ASSEMBLY                  | 1        | Prop    |                          |
| SPINNER                        | D-3434-5P     | SPINNER ASSEMBLY                  | 1        | Prop    |                          |
| SPINNER                        | D-3434-6      | SPINNER ASSEMBLY                  | 1        | Prop    |                          |
| SPINNER                        | D-3434-6P     | SPINNER ASSEMBLY                  | 1        | Prop    |                          |
| SP MT KIT DE-ICE               | A-2070-10     | SCREW, 1/4-28, BUTTON HEAD        | 12       | Prop    |                          |
| SP MT KIT DE-ICE               | B-3808-4      | NUT, HEX, SELF-LOCKING            | 12       | Prop    |                          |
| SP MT KIT DE-ICE               | B-3837-0432   | WASHER, CORROSION RESISTANT       | 12       | Prop    |                          |
| SP MT KIT DE-ICE               | B-7077-52     | BELLEVILLE SPRING WASHER          | 12       | Prop    |                          |
| COUNTERWEIGHT SLUG A-3039      |               | SLUG, COUNTERWEIGHT               | 1        | Blade   |                          |
| COUNTERWEIGHT SLUG A-890-6     |               | PCP:SLUG, COUNTERWEIGHT           | 1        | Blade   | Primary                  |
| COUNTERWEIGHT SLUG A-890-8     |               | PCP:SLUG, COUNTERWEIGHT           | 1        | Blade   | Alternate                |
| COUNTERWEIGHT SLUG A-890-9     |               | PCP:SLUG, COUNTERWEIGHT           | 1        | Blade   | Alternate                |
| COUNTERWEIGHT SLUG B-3384-21H  |               | BOLT, 1/4-28, HEX HEAD            | 2        | Blade   |                          |
| COUNTERWEIGHT SLUG B-3851-0432 |               | WASHER                            | 2        | Blade   | Optional                 |
| COUNTERWEIGHT SLUG B-3851-0463 |               | WASHER                            | 2        | Blade   | Optional                 |
| DE-ICER                        | 4H1188-6      | DE-ICE BOOT                       | 1        | Blade   | Supersedes 7931-4E1188-6 |
| DE-ICE KIT PR                  | 7931-77-910-1 | 77-910-1 PROPELLER DEICING KIT    | 1        | Prop    |                          |
| MTG BOLT/STUD                  | B-3339        | BOLT, MOUNTING, 9/16-18, 12 POINT | 8        | Prop    |                          |
| OVERHAUL KIT                   | HC-B3TN-3D-OH | O/H KIT                           | 1        | Prop    | For aftermarket use only |

# HARTZELL

## APPLICATION GUIDE

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EMBRAER

IDS No.: 487      Rev.: 1      D      Date: 01/07/2011

**Model:** EMB-121A1  
**Trade Name:** XINGU  
**Aircraft T.C./STC:** Unknown  
**Propeller Model:** HC-B4TN-3C  
**Propeller T.C.:** P40EA  
**Blade Model(s):** T9212B  
                                  T9212NB  
**Prop Diameter:** 93"

**Modifier:**  
**Engine Model:** PT6A-135  
**Power:** 750 HP @ 1900 RPM  
**Placard/Restr:**  
**Notes:** HC-B4TN-3C replaces HC-B4TN-3

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** -11.0 +-0.5  
**Low Pitch Angle:** 17.2 +-0.2  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 86.0 +-1.0  
**Cwt Angle:** POSITIVE

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u>               | <u>Item Number</u> | <u>Description</u>                | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|--------------------------------|--------------------|-----------------------------------|-----------------|----------------|--------------------------|
| PROPELLER                      | B4N10020           | HC-B4TN-3C/T9212NB/BULKHEAD       | 2               | A/C            |                          |
| BLADE                          | T9212B             | BLADE UNIT, 4E1188-5              | 4               | Prop           |                          |
| BLADE                          | T9212NB            | PCP:BLADE UNIT, ALUMINUM          | 4               | Prop           |                          |
| SPINNER                        | D-3434-18P         | SPINNER ASSEMBLY                  | 1               | Prop           |                          |
| COUNTERWEIGHT SLUG A-3039      |                    | SLUG, COUNTERWEIGHT               | 1               | Blade          |                          |
| COUNTERWEIGHT SLUG A-890-13    |                    | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          |                          |
| COUNTERWEIGHT SLUG A-890-14    |                    | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          |                          |
| COUNTERWEIGHT SLUG B-3384-15H  |                    | BOLT, 1/4-28, HEX HEAD            | 2               | Blade          |                          |
| COUNTERWEIGHT SLUG B-3384-18H  |                    | BOLT, 1/4-28, HEX HEAD            | 2               | Blade          |                          |
| COUNTERWEIGHT SLUG B-3851-0432 |                    | WASHER                            | 4               | Blade          | Optional                 |
| COUNTERWEIGHT SLUG B-3851-0463 |                    | WASHER                            | 4               | Blade          |                          |
| DE-ICER                        | 4H1188-5           | DE-ICE BOOT                       | 1               | Blade          | Supersedes 7931-4E1188-5 |
| DE-ICE KIT PR                  | 7931-65-445-1      | DE-ICE KIT (ONE PROP)             | 1               | Prop           |                          |
| MTG BOLT/STUD                  | B-3339             | BOLT, MOUNTING, 9/16-18, 12 POINT | 8               | Prop           |                          |

# HARTZELL

## APPLICATION GUIDE 159

**EMBRAER**

**Model:** EMB-200A  
**Trade Name:** IPANEMA  
**Aircraft T.C./STC:** Unknown  
**Propeller Model:** HC-C2YK-1BF  
**Propeller T.C.:** P-920  
**Blade Model(s):** F8477-4  
**Prop Diameter:** 80"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 14.0 +-0.2  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**IDS No.:** 488      **Rev.:** -      **DM Date:** 10/01/1992

**Modifier:**  
**Engine Model:** O-540-H1B5D  
**Power:** 260 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 29.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:** WOODWARD

**Hartzell Approved Items:**

| Item Type     | Item Number | Description                  | Quantity | Qty Per | Comments |
|---------------|-------------|------------------------------|----------|---------|----------|
| BLADE         | F8477-4     | PCP:BLADE UNIT, ALUM [1,1,1] | 2        | Prop    |          |
| SPINNER       | 835-33      | SPINNER ASSEMBLY             | 1        | Prop    |          |
| MTG BOLT/STUD | A-2067      | STUD, MOUNTING, 1/2-20       | 6        | Prop    |          |

**EMBRAER**

**Model:** EMB-201A, -202  
**Trade Name:** IPANEMA  
**Aircraft T.C./STC:** Unknown  
**Propeller Model:** HC-C3YR-1RF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** F8468-2R  
 F8468A-2R  
**Prop Diameter:** 84"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 11.0 +-0.2  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**IDS No.:** 490      **Rev.:** 1      **IC Date:** 07/16/2015

**Modifier:**  
**Engine Model:** IO-540-K1J5D  
**Power:** 300 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 31.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type     | Item Number    | Description                  | Quantity | Qty Per | Comments                 |
|---------------|----------------|------------------------------|----------|---------|--------------------------|
| PROPELLER     | C3R00051       | HC-C3YR-1RF/F8468A-2R        | 1        | A/C     |                          |
| PROPELLER     | C3R00051KD     | HC-C3YR-1RF/F8468A-2R        | 1        | A/C     |                          |
| BLADE         | F8468-2R       | PCP:BLADE UNIT, ALUMINUM     | 3        | Prop    |                          |
| BLADE         | F8468A-2R      | PCP:BLADE UNIT, ALUM [1,1,1] | 3        | Prop    |                          |
| SPINNER       | 835-36         | SPINNER ASSEMBLY             | 1        | Prop    |                          |
| SPINNER       | 835-36P        | SPINNER ASSEMBLY             | 1        | Prop    |                          |
| GOVERNOR      | F-4-36         | GOVERNOR ASSEMBLY, F-4(-)    | 1        | A/C     |                          |
| MTG BOLT/STUD | A-2067         | STUD, MOUNTING, 1/2-20       | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-C3YR-1RF-OH | O/H KIT                      | 1        | Prop    | For aftermarket use only |

# HARTZELL

## APPLICATION GUIDE 159

**EMBRAER**

**Model:** EMB-201A, -202  
**Trade Name:** IPANEMA  
**Aircraft T.C./STC:** Unknown  
**Propeller Model:** HC-C2YR-1BF  
**Propeller T.C.:** P-920  
**Blade Model(s):** F8475R  
**Prop Diameter:** 84"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.0 +/-0.1  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number    | Description                | Quantity | Qty Per | Comments                 |
|---------------|----------------|----------------------------|----------|---------|--------------------------|
| PROPELLER     | C2R00050       | HC-C2YR-1BF/F8475R         | 1        | A/C     |                          |
| BLADE         | F8475R         | PCP:BLADE UNIT, ALUMINUM   | 2        | Prop    |                          |
| SPINNER       | 835-33         | SPINNER ASSEMBLY           | 1        | Prop    |                          |
| GOVERNOR      | F-4-36         | GOVERNOR ASSEMBLY, F-4-( ) | 1        | A/C     |                          |
| MTG BOLT/STUD | A-2067         | STUD, MOUNTING, 1/2-20     | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-C2YR-1BF-OH | O/H KIT                    | 1        | Prop    | For aftermarket use only |

**IDS No.:** 489      **Rev.:** 1      **IC Date:** 07/07/2015

**Modifier:**  
**Engine Model:** IO-540-K1F5D, -K1J5D  
**Power:** 300 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 29.0 +/-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

**EMBRAER**

**Model:** M203  
**Trade Name:** Ipanema  
**Aircraft T.C./STC:** Unknown  
**Propeller Model:** HC-E3YR-1RF  
**Propeller T.C.:** P33EA  
**Blade Model(s):** F8468A-2R  
**Prop Diameter:** 84"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** 11.0 +/- 0.2  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number    | Description                  | Quantity | Qty Per | Comments                 |
|---------------|----------------|------------------------------|----------|---------|--------------------------|
| PROPELLER     | E3R00029       | HC-E3YR-1RF/F8468A-2R/SM25   | 1        | A/C     |                          |
| BLADE         | F8468A-2R      | PCP:BLADE UNIT, ALUM [1,1,1] | 3        | Prop    |                          |
| SPINNER       | A-2295-1       | SPINNER ASSEMBLY             | 1        | Prop    |                          |
| SPINNER       | A-2295-1P      | SPINNER ASSEMBLY             | 1        | Prop    |                          |
| GOVERNOR      | S-1-55         | GOVERNOR ASSEMBLY, S-1-55    | 1        | A/C     |                          |
| SPIN MTG KIT  | A-2476-25      | SPINNER - MTG KIT            | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2067         | STUD, MOUNTING, 1/2-20       | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-E3YR-1RF-OH | O/H KIT                      | 1        | Prop    | For aftermarket use only |

**IDS No.:** 3182      **Rev.:** 2      **IC Date:** 11/09/2015

**Modifier:**  
**Engine Model:** IO-540-K1J5  
**Power:** 315 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:** Engine modified by EMBRAER for alcohol use. Power increased to 315 HP.

**Startlock Angle:**  
**Feather/High Angle:** 31.0 +/- 1.0  
**Cwt Angle:**

**Non-HPI Governor:**

# HARTZELL

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EMBRAER

IDS No.: 491 Rev.: 5 D Date: 06/04/2013

**Model:** EMB-312  
**Trade Name:** TUCANO  
**Aircraft T.C./STC:** Unknown  
**Propeller Model:** HC-B3TN-3C, 3D  
**Propeller T.C.:** P15EA  
**Blade Model(s):** T10178-8R  
 T10178K-8R  
 T10178N-8R  
 T10178N-8R\*1  
 T10178NK-8R

**Modifier:**  
**Engine Model:** PT6A-25C  
**Power:** 750 HP @ 2200 RPM  
**Placard/Restr:**  
**Notes:** Min diameter is per vibration approval.  
 Reference Manual 139 for Airworthiness  
 Limitations.

**Prop Diameter:** 93.5" TO 91.0"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** -11.0 +-0.5  
**Low Pitch Angle:** 20.1 +-0.2  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 88.1 +-1.0  
**Cwt Angle:** Positive

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type                      | Item Number   | Description                       | Quantity | Qty Per | Comments                  |
|--------------------------------|---------------|-----------------------------------|----------|---------|---------------------------|
| PROPELLER                      | B3N10275      | HC-B3TN-3C/T10178N-8R             | 1        | A/C     |                           |
| PROPELLER                      | B3N10275KD    | HC-B3TN-3C/T10178N-8R             | 1        | A/C     |                           |
| BLADE                          | T10178-8R     | BLADE                             | 3        | Prop    |                           |
| BLADE                          | T10178K-8R    | BLADE UNIT, ALUMINUM              | 3        | Prop    |                           |
| BLADE                          | T10178N-8R    | PCP:BLADE UNIT, ALUM [1,1,1]      | 3        | Prop    |                           |
| BLADE                          | T10178N-8R*1  | PCP: BLADE UNIT, ALUMINUM [3,1,1] | 3        | Prop    |                           |
| BLADE                          | T10178NK-8R   | PCP:BLADE UNIT, ALUMINUM          | 3        | Prop    |                           |
| SPINNER                        | C-3065-11     | SPINNER ASSEMBLY                  | 1        | Prop    |                           |
| SPINNER                        | C-3065-11P    | SPINNER ASSEMBLY                  | 1        | Prop    |                           |
| SPINNER                        | D-3434-17P    | SPINNER ASSEMBLY                  | 1        | Prop    |                           |
| COUNTERWEIGHT SLUG A-3039      |               | SLUG, COUNTERWEIGHT               | 1        | Blade   |                           |
| COUNTERWEIGHT SLUG A-890-6     |               | PCP:SLUG, COUNTERWEIGHT           | 1        | Blade   | Primary                   |
| COUNTERWEIGHT SLUG A-890-8     |               | PCP:SLUG, COUNTERWEIGHT           | 1        | Blade   | Alternate                 |
| COUNTERWEIGHT SLUG A-890-9     |               | PCP:SLUG, COUNTERWEIGHT           | 1        | Blade   | Alternate                 |
| COUNTERWEIGHT SLUG B-3384-21H  |               | BOLT, 1/4-28, HEX HEAD            | 2        | Blade   |                           |
| COUNTERWEIGHT SLUG B-3851-0432 |               | WASHER                            | 2        | Blade   | Optional                  |
| COUNTERWEIGHT SLUG B-3851-0463 |               | WASHER                            | 2        | Blade   | Optional                  |
| DE-ICER                        | 4H2200-10     | DE-ICE BOOT                       | 1        | Blade   | Supersedes 7931-4e2200-10 |
| DE-ICE KIT PR                  | 7931-67-610-1 | 67-610-1 PROPELLER DEICING KIT    | 1        | Prop    |                           |
| MTG BOLT/STUD                  | B-3339        | BOLT, MOUNTING, 9/16-18, 12 POINT | 8        | Prop    |                           |



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EMBRAER

IDS No.: 1886 Rev.: 4 IC Date: 07/06/2015

**Model:** EMB-314  
**Trade Name:** SUPER TUCANO  
**Aircraft T.C./STC:** Unknown  
**Propeller Model:** HC-B5MA-2  
**Propeller T.C.:** P44GL

**Modifier:**  
**Engine Model:** PT6A-68C  
**Power:** 1600 HP @ 2000 RPM  
**Placard/Restr:** Avoid continuous ground operation between 500 to 800 RPM, 1050 to 1350 RPM and 1750 to 1950 RPM.

**Blade Model(s):** M9128NSK  
**Prop Diameter:** 94

**Notes:** Reference Manual 139 for Airworthiness Limitations.

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.0 +/-0.1  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 86.6 +/-0.5  
**Cwt Angle:** 22.9 +/-1.5

### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| Item Type          | Item Number   | Description                    | Quantity | Qty Per | Comments                      |
|--------------------|---------------|--------------------------------|----------|---------|-------------------------------|
| PROPELLER          | B5A10001      | HC-B5MA-2/M9128NSK             | 1        | A/C     |                               |
| PROPELLER          | B5A10001KD    | HC-B5MA-2/M9128NSK             | 1        | A/C     |                               |
| PROPELLER          | B5A10001S     | HC-B5MA-2/M9128NSK/D-5497-3    | 1        | A/C     |                               |
| PROPELLER          | B5A10001SKD   | HC-B5MA-2/M9128NSK/D-5497-3    | 1        | A/C     |                               |
| PROPELLER          | B5A10005S     | HC-B5MA-2/M9128NSK/D-5497-4    | 1        | A/C     |                               |
| PROPELLER          | B5A10005SKD   | HC-B5MA-2/M9128NSK/D-5497-4    | 1        | A/C     |                               |
| BLADE              | M9128NSK      | PCP:BLADE UNIT, ALUMINUM       | 5        | Prop    |                               |
| SPINNER            | D-5497-3      | SPINNER ASSEMBLY               | 1        | Prop    |                               |
| SPINNER            | D-5497-3P     | SPINNER ASSEMBLY               | 1        | Prop    |                               |
| SPINNER            | D-5497-4      | SPINNER ASSEMBLY               | 1        | Prop    | with laser range finder holes |
| SP MT KIT DE-ICE   | B-3384-10H    | BOLT, 1/4-28, HEX HEAD         | 10       | Prop    |                               |
| SP MT KIT DE-ICE   | B-3808-4      | NUT,HEX,SELF-LOCKING           | 10       | Prop    |                               |
| SP MT KIT DE-ICE   | B-3837-0432   | WASHER, CORROSION RESISTANT    | 10       | Prop    |                               |
| SP MT KIT DE-ICE   | B-7077-52     | BELLEVILLE SPRING WASHER       | 10       | Prop    |                               |
| COUNTERWEIGHT SLUG | A-890-16      | PCP:SLUG, COUNTERWEIGHT        | 1        | Blade   |                               |
| COUNTERWEIGHT SLUG | B-3384-4H     | BOLT, 1/4-28, HEX HEAD         | 2        | Blade   |                               |
| COUNTERWEIGHT SLUG | B-3386-14H    | BOLT,3/8-24,HEX HEAD           | 2        | Blade   |                               |
| COUNTERWEIGHT SLUG | B-3834-0632   | WASHER                         | 2        | Blade   |                               |
| COUNTERWEIGHT SLUG | B-3851-0463   | WASHER                         | 2        | Blade   |                               |
| COUNTERWEIGHT SLUG | C-6081        | PCP:SLUG, COUNTERWEIGHT        | 1        | Blade   |                               |
| DE-ICER            | 4H3064-1      | DE-ICE BOOT                    | 1        | Blade   | Supersedes 7931-4E3064-1      |
| DE-ICE KIT PR      | 7931-67-840-1 | DE-ICE KIT (ONE PROP)          | 1        | Prop    |                               |
| MTG BOLT/STUD      | B-3347        | BOLT,MOUNTING,9/16-18,12 POINT | 12       | Prop    |                               |
| OVERHAUL KIT       | HC-B5MA-2-OH  | O/H KIT                        | 1        | Prop    | For aftermarket use only      |

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**EMBRAER/NEIVA**

**Model:** EMB-710C & 710  
**Trade Name:** CARIOCA  
**Aircraft T.C./STC:** EA-7503  
**Propeller Model:** HC-C2YK-1( )F  
**Propeller T.C.:** P-920  
**Blade Model(s):** F8468A-4  
**Prop Diameter:** 80.0" NO CUT OFF

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.5 +-0.2  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:** PIPER

**IDS No.:** 2534      **Rev.:** 1      **IC Date:** 07/07/2015

**Modifier:**

**Engine Model:** O-540-B4B5

**Power:** 235 HP @ 2575 RPM

**Placard/Restr:**

**Notes:** Embraer/Neiva manufactured aircraft under Piper's License.

**Startlock Angle:** NA

**Feather/High Angle:** 27.0 +-2.0

**Cwt Angle:**

**Hartzell Approved Items:**

| Item Type     | Item Number    | Description                  | Quantity | Qty Per | Comments                       |
|---------------|----------------|------------------------------|----------|---------|--------------------------------|
| PROPELLER     | C2K00101       | HC-C2YK-1BF/F8468A-4/SM8     | 1        | A/C     |                                |
| BLADE         | F8468A-4       | PCP:BLADE UNIT, ALUM [1,1,1] | 2        | Prop    |                                |
| GOVERNOR      | F4-13          | GOVERNOR ASSEMBLY, F-4( )    | 1        | A/C     | Sec'ndry,wide deck "A" S/N eng |
| GOVERNOR      | F4-13Z         | GOVERNOR ASSEMBLY, F-4( )    | 1        | A/C     | Primary,Wide Deck "A" S/N eng  |
| GOVERNOR      | F4-3A          | GOVERNOR ASSEMBLY, F-4( )    | 1        | A/C     | Sec'ndry,Nar Deck non "A" sufx |
| GOVERNOR      | F4-3AZ         | GOVERNOR ASSEMBLY, F-4( )    | 1        | A/C     | Primary,Nar Deck Non "A" eng s |
| SPIN MTG KIT  | A-2476-8       | SPINNER - MTG KIT            | 1        | Prop    |                                |
| MTG BOLT/STUD | A-2067         | STUD, MOUNTING, 1/2-20       | 6        | Prop    |                                |
| OVERHAUL KIT  | HC-C2YK-1BF-OH | O/H KIT                      | 1        | Prop    | For aftermarket use only       |

**EMBRAER/NEIVA**

**Model:** EMB-710D  
**Trade Name:** CARIOCA  
**Aircraft T.C./STC:** EA-7503  
**Propeller Model:** HC-F2YR-1F  
**Propeller T.C.:** P27EA  
**Blade Model(s):** F8468A-4R  
**Prop Diameter:** 80.0" TO 78.0"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 16.25 +-0.25  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**IDS No.:** 2537      **Rev.:** 1      **IC Date:** 07/07/2015

**Modifier:**

**Engine Model:** O-540-J3A5D

**Power:** 235 HP @ 2400 RPM

**Placard/Restr:**

**Notes:** Embraer/Neiva manufactured aircraft under Piper's License.

**Startlock Angle:** NA

**Feather/High Angle:** 32.0 +-2.0

**Cwt Angle:**

**Hartzell Approved Items:**

| Item Type     | Item Number   | Description                  | Quantity | Qty Per | Comments                 |
|---------------|---------------|------------------------------|----------|---------|--------------------------|
| PROPELLER     | F2R00060      | HC-F2YR-1F/F8468A-4R/SM4     | 1        | A/C     |                          |
| BLADE         | F8468A-4R     | PCP:BLADE UNIT, ALUM [1,1,1] | 2        | Prop    |                          |
| SPINNER       | C-3568        | SPINNER ASSEMBLY             | 1        | Prop    |                          |
| SPINNER       | C-3568-P      | SPINNER ASSEMBLY             | 1        | Prop    |                          |
| GOVERNOR      | F4-21         | GOVERNOR ASSEMBLY, F-4( )    | 1        | A/C     |                          |
| SPIN MTG KIT  | A-2476-4      | SPINNER - MTG KIT            | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2067        | STUD, MOUNTING, 1/2-20       | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-F2YR-1F-OH | O/H KIT                      | 1        | Prop    | For aftermarket use only |

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**EMBRAER/NEIVA**

**Model:** EMB-711B  
**Trade Name:** CORISCO  
**Aircraft T.C./STC:** EA-7502  
**Propeller Model:** HC-C2YK-1BF  
**Propeller T.C.:** P-920  
**Blade Model(s):** F7666A-2R  
**Prop Diameter:** 74" TO 72"

**IDS No.:** 2544      **Rev.:** 1      **IC Date:** 07/07/2015

**Modifier:**  
**Engine Model:** IO-360-C1C6  
**Power:** 200 HP @ 2700 RPM  
**Placard/Restr:**

**Notes:** Embraer/Neiva manufactured aircraft under Piper's License.

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 14.0 +-0.2  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 29.0 +-2.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:** PIPER

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type     | Item Number    | Description                | Quantity | Qty Per | Comments                 |
|---------------|----------------|----------------------------|----------|---------|--------------------------|
| PROPELLER     | C2K00051       | HC-C2YK-1BF/F7666A-2R      | 1        | A/C     |                          |
| BLADE         | F7666A-2R      | PCP:BLADE UNIT, ALUMINUM   | 2        | Prop    |                          |
| GOVERNOR      | F2-7A          | GOVERNOR ASSEMBLY, F-2-( ) | 1        | A/C     | Primary Gov.             |
| GOVERNOR      | F2-7AZ         | GOVERNOR ASSEMBLY, F-2-( ) | 1        | A/C     | Secondary Gov.           |
| MTG BOLT/STUD | A-2067         | STUD, MOUNTING, 1/2-20     | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-C2YK-1BF-OH | O/H KIT                    | 1        | Prop    | For aftermarket use only |

**EMBRAER/NEIVA**

**Model:** EMB-711C & 711  
**Trade Name:** CORISCO  
**Aircraft T.C./STC:** EA-7502  
**Propeller Model:** HC-C2YK-1( ) (F)  
**Propeller T.C.:** P-920  
  
**Blade Model(s):** F7666A-2  
**Prop Diameter:** 74.0" TO 72.5"

**IDS No.:** 2546      **Rev.:** 1      **IC Date:** 07/07/2015

**Modifier:**  
**Engine Model:** IO-360-C1C  
**Power:** 200 HP @ 2700 RPM  
**Placard/Restr:** Avoid continuous operation between 2000 and 2350 RPM.

**Notes:** Embraer/Neiva manufactured aircraft under Piper's License.

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 14.0 +-0.2  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 29.0 +-2.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:** PIPER

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type     | Item Number    | Description                | Quantity | Qty Per | Comments                 |
|---------------|----------------|----------------------------|----------|---------|--------------------------|
| PROPELLER     | C2K00047       | HC-C2YK-1BF/F7666A-2       | 1        | A/C     |                          |
| BLADE         | F7666A-2       | PCP:BLADE UNIT, ALUMINUM   | 2        | Prop    |                          |
| GOVERNOR      | F2-7A          | GOVERNOR ASSEMBLY, F-2-( ) | 1        | A/C     |                          |
| GOVERNOR      | F2-7AZ         | GOVERNOR ASSEMBLY, F-2-( ) | 1        | A/C     |                          |
| MTG BOLT/STUD | A-2067         | STUD, MOUNTING, 1/2-20     | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-C2YK-1BF-OH | O/H KIT                    | 1        | Prop    | For aftermarket use only |

# HARTZELL

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EMBRAER/NEIVA

IDS No.: 2583 Rev.: 1 IC Date: 07/07/2015

**Model:** EMB-720D  
**Trade Name:** MINUANO  
**Aircraft T.C./STC:** EA-7504  
**Propeller Model:** HC-C2Y(K,R)-1( )F  
**Propeller T.C.:** P-920

**Modifier:**  
**Engine Model:** IO-540-K1G5  
**Power:** 300 HP @ 2700 RPM  
**Placard/Restr:** 2700 RPM limit for 5 minutes. 2600 RPM max continuous.  
**Notes:** K flange approved; Embraer/Neiva manufactured aircraft under Piper's license

**Blade Model(s):** F8475D-4  
**Prop Diameter:** 80" TO 78.5"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** 13.5 +-0.2  
**Stud Protrusion**

**Startlock Angle:**  
**Feather/High Angle:** 34.0 +-1.0  
**Cwt Angle:**

### Non-HPI Items:

**Non-HPI Spinner:** PIPER

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>           | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|------------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | C2K00130           | HC-C2YK-1BF/F8475D-4         | 1               | A/C            |                          |
| BLADE            | F8475D-4           | PCP:BLADE UNIT, ALUM [1,1,1] | 2               | Prop           |                          |
| GOVERNOR         | F4-11              | GOVERNOR ASSEMBLY, F-4-( )   | 1               | Prop           |                          |
| GOVERNOR         | F4-11Z             | GOVERNOR ASSEMBLY, F-4-( )   | 1               | Prop           |                          |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20       | 6               | Prop           |                          |
| OVERHAUL KIT     | HC-C2YK-1BF-OH     | O/H KIT                      | 1               | Prop           | For aftermarket use only |

# HARTZELL

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**EMBRAER/NEIVA**

IDS No.: 2550      Rev.: 2      IC      Date: 02/11/2016

**Model:** EMB-720D  
**Trade Name:** MINUANO  
**Aircraft T.C./STC:** EA-7504  
**Propeller Model:** HC-C3YR-1( )F  
**Propeller T.C.:** P25EA  
**Blade Model(s):** F7663R  
    F7663R\*3  
**Prop Diameter:** 78" TO 76"

**Modifier:**  
**Engine Model:** IO-540-K1G5  
**Power:** 300 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:** Embraer/Neiva manufactured under  
                  Piper's License.

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.4 +-0.2  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 32.0 +-1.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>             | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|--------------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | C3R00025           | HC-C3YR-1RF/F7663R             | 1               | A/C            |                          |
| PROPELLER        | C3R00025KD         | HC-C3YR-1RF/F7663R             | 1               | A/C            |                          |
| PROPELLER        | C3R01150           | HC-C3YR-1RF/F7663R[*3]         | 1               | A/C            |                          |
| PROPELLER        | C3R01150KD         | HC-C3YR-1RF/F7663R[*3]         | 1               | A/C            |                          |
| BLADE            | F7663R             | PCP:BLADE UNIT, ALUM [1,1,1]   | 3               | Prop           |                          |
| BLADE            | F7663R*3           | PCP:BLADE UNIT, ALUM [6,16,11] | 3               | Prop           |                          |
| SPINNER          | 103629             | SPINNER ASSEMBLY, COMPOSITE    | 1               | Prop           |                          |
| SPINNER          | 103629F1           | SPINNER ASSEMBLY, COMPOSITE    | 1               | Prop           |                          |
| SPINNER          | 103629F2           | SPINNER ASSEMBLY, COMPOSITE    | 1               | Prop           |                          |
| SPINNER          | 835-47             | SPINNER ASSEMBLY               | 1               | Prop           |                          |
| GOVERNOR         | F4-11B             | GOVERNOR ASSEMBLY, F-4-( )     | 1               | A/C            |                          |
| GOVERNOR         | F4-11BZ            | GOVERNOR ASSEMBLY, F-4-( )     | 1               | Prop           |                          |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20         | 6               | Prop           |                          |
| OVERHAUL KIT     | HC-C3YR-1RF-OH     | O/H KIT                        | 1               | Prop           | For aftermarket use only |

# HARTZELL

## APPLICATION GUIDE 159

**EMBRAER/NEIVA**

**Model:** EMB-721C  
**Trade Name:** MINUANO  
**Aircraft T.C./STC:** EA-7506  
**Propeller Model:** HC-C2YK-1BF  
**Propeller T.C.:** P-920  
**Blade Model(s):** F8475D-4  
**Prop Diameter:** 80.0" TO 78.5"

**IDS No.:** 2551      **Rev.:** 1      **IC Date:** 07/07/2015  
**Modifier:**  
**Engine Model:** IO-540-K1A5D, -K1G5D (S/N 721015 & UP)  
**Power:** 300 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:** Embraer/Neiva manufactured under Piper's License.

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.5 +-0.2  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 34.0 +-1.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:** PIPER

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type     | Item Number    | Description                  | Quantity | Qty Per | Comments                 |
|---------------|----------------|------------------------------|----------|---------|--------------------------|
| PROPELLER     | C2K00130       | HC-C2YK-1BF/F8475D-4         | 1        | A/C     |                          |
| BLADE         | F8475D-4       | PCP:BLADE UNIT, ALUM [1,1,1] | 2        | Prop    |                          |
| GOVERNOR      | F4-11B         | GOVERNOR ASSEMBLY, F-4-( )   | 1        | A/C     | Wide Deck Engine         |
| GOVERNOR      | F4-11BZ        | GOVERNOR ASSEMBLY, F-4-( )   | 1        | A/C     | Wide Deck Engine         |
| MTG BOLT/STUD | A-2067         | STUD, MOUNTING, 1/2-20       | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-C2YK-1BF-OH | O/H KIT                      | 1        | Prop    | For aftermarket use only |

**ENAER (PIPER)**

**Model:** T-35  
**Trade Name:** PILLAN (PA-28R-300)  
**Aircraft T.C./STC:** Unknown  
**Propeller Model:** HC-C3YR-4BF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** FC7663R  
**Prop Diameter:** 78"

**IDS No.:** 494      **Rev.:** 1      **IC Date:** 07/15/2015  
**Modifier:**  
**Engine Model:** IO-540-K1A5D, -K1G5D  
**Power:** 300 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.4 +-0.2  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 32.0 +-1.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type     | Item Number    | Description                | Quantity | Qty Per | Comments                 |
|---------------|----------------|----------------------------|----------|---------|--------------------------|
| PROPELLER     | C3R00229       | HC-C3YR-4BF/FC7663R/SM9    | 1        | A/C     |                          |
| BLADE         | FC7663R        | PCP:BLADE UNIT, ALUMINUM   | 3        | Prop    |                          |
| SPINNER       | D-5205         | SPINNER ASSEMBLY           | 1        | Prop    |                          |
| SPINNER       | D-5205-P       | SPINNER ASSEMBLY           | 1        | Prop    |                          |
| GOVERNOR      | F6-66          | GOVERNOR ASSEMBLY, F-6-( ) | 1        | A/C     |                          |
| SPIN MTG KIT  | A-2476-9       | SPINNER - MTG KIT          | 1        | Prop    |                          |
| COUNTERWEIGHT | B-3202H-2      | PCP:COUNTERWEIGHT          | 1        | Blade   | Blade Component          |
| MTG BOLT/STUD | A-2067         | STUD, MOUNTING, 1/2-20     | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-C3YR-4BF-OH | O/H KIT                    | 1        | Prop    | For aftermarket use only |

# HARTZELL

## APPLICATION GUIDE 159

Epic

IDS No.: 3790 Rev.: 2 IC Date: 02/25/2022

Model: E1000  
Trade Name: E1000 GX  
Aircraft T.C./STC: A00059SE  
Propeller Model: HC-E5A-3A  
Propeller T.C.: P20NE

Modifier:  
Engine Model: PT6A-67A  
Power: 1200 HP @ 1700 RPM  
Placard/Restr: Continuous ground operation is prohibited between 400 and 900 RPM. The propeller may be operated when feathered at or below 400 RPM.

Blade Model(s): NC10245B\*6  
NC10245B\*7

Notes:

Prop Diameter: 105"

**Prop Setup:**

Ref. Radius: 42  
Reverse Angle: -17.5 +/- 0.5  
Low Pitch Angle: 14.7 +/-0.2  
Stud Protrusion

Startlock Angle:  
Feather/High Angle: 80.0 +/- 0.5  
Cwt Angle:

**Non-HPI Items:**

Non-HPI Spinner:

Non-HPI Governor:

**Hartzell Approved Items:**

| Item Type                   | Item Number | Description                    | Quantity | Qty Per | Comments |
|-----------------------------|-------------|--------------------------------|----------|---------|----------|
| PROPELLER                   | E5A01400S   | HC-E5A-3A/NC10245B*6/105820P   | 1        | A/C     |          |
| PROPELLER                   | E5A01400SKD | HC-E5A-3A/NC10245B*6/105820P   | 1        | A/C     |          |
| PROPELLER                   | E5A01401S   | HC-E5A-3A/NC10245B*7/105820P   | 1        | A/C     |          |
| PROPELLER                   | E5A01401SKD | HC-E5A-3A/NC10245B*7/105820P   | 1        | A/C     |          |
| BLADE                       | NC10245B*6  | PCP:BLADE ASSY, COMPOSITE      | 5        | Prop    |          |
| BLADE                       | NC10245B*7  | PCP:BLADE ASSY, COMPOSITE      | 5        | Prop    |          |
| SPINNER                     | 105820      | SPINNER ASSEMBLY               | 1        | Prop    |          |
| SPINNER                     | 105820P     | SPINNER ASSEMBLY               | 1        | Prop    |          |
| SPIN MTG KIT                | B-3384-6H   | BOLT, 1/4-28, HEX HEAD         | 10       | Prop    |          |
| SPIN MTG KIT                | B-3851-0432 | WASHER                         | 10       | Prop    |          |
| SP MT KIT DE-ICE            | A-2070-8    | SCREW, 1/4-28, BUTTON HEAD     | 10       | Prop    |          |
| COUNTERWEIGHT               | 105604      | PCP:COUNTERWEIGHT              | 1        | Blade   |          |
| COUNTERWEIGHT SLUG A-1712   |             | BOLT,3/8-24,HEX HEAD           | 1        | Blade   |          |
| COUNTERWEIGHT SLUG A-1713   |             | PCP: SLUG, COUNTERWEIGHT       | 10       | Blade   |          |
| COUNTERWEIGHT SLUG A-2043-1 |             | NUT,3/8-24,HEX,SELF-LOCKING    | 1        | Blade   |          |
| DE-ICER                     | 107383      | DE-ICE BOOT                    | 1        | Blade   |          |
| DE-ICE KIT PR               | 105934      | DE-ICE KIT (ONE PROP)          | 1        | Prop    |          |
| DE-ICE KIT A/F              | 106558      | AIRFRAME DE-ICE KIT            | 1        | A/C     |          |
| MTG BOLT/STUD               | B-3347      | BOLT,MOUNTING,9/16-18,12 POINT | 12       | Prop    |          |
| MISC                        | A-3074      | BLOCK, BETA FEEDBACK- ASSEMBLY | 1        | Prop    |          |

# HARTZELL

## APPLICATION GUIDE 159

Epic Aircraft

IDS No.: 2526      Rev.: 4      IC      Date: 07/01/2022

**Model:** E1000  
**Trade Name:** E1000  
**Aircraft T.C./STC:** A00059SE  
**Propeller Model:** HC-E4A-3D  
**Propeller T.C.:** P10NE

**Modifier:**  
**Engine Model:** PT6A-67A  
**Power:** 1200 HP @ 1700 RPM  
**Placard/Restr:** Stabilized ground operation is prohibited between 350 and 950 RPM. The propeller may be operated when feathered at or below 350 RPM. The blades are shot peened between blade stations 7.0 and 30.0 on both face and camber sides. Blades having damage to the shot peened areas exceeding 0.015 inch deep (including material removal necessary to blend out such damage) must be removed from service and the reworked area shot peened before further flight.

**Blade Model(s):** E10477SK  
**Prop Diameter:** 105"-104"

**Notes:**

**Prop Setup:**

**Ref. Radius:** 42  
**Reverse Angle:** -17.5 +-0.5  
**Low Pitch Angle:** 19.0 +-0.2  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 79.6 +-0.5  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>             | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|--------------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | E4A00114S          | HC-E4A-3D/E10477SK/D-5500-1P   | 1               | A/C            |                          |
| BLADE            | E10477SK           | PCP:BLADE UNIT, ALUMINUM       | 4               | Prop           |                          |
| SPINNER          | D-5500-1F          | SPINNER ASSEMBLY               | 1               | A/C            |                          |
| SPINNER          | D-5500-1P          | SPINNER ASSEMBLY               | 1               | A/C            |                          |
| SP MT KIT DE-ICE | A-2070-10          | SCREW, 1/4-28, BUTTON HEAD     | 8               | Prop           |                          |
| COUNTERWEIGHT    | D-6021-3           | PCP:COUNTERWEIGHT              | 1               | Blade          | Superseeds D-6021-1      |
| DE-ICER          | 102855             | DE-ICE BOOT                    | 1               | Blade          | Superseeds 4E, 4H3051-10 |
| DE-ICE KIT PR    | 103253             | DE-ICE KIT (ONE PROP)          | 1               | Prop           | Superseeds 7931-67-925-1 |
| DE-ICE KIT A/F   | 106558             | AIRFRAME DE-ICE KIT            | 1               | A/C            |                          |
| MTG BOLT/STUD    | B-3347             | BOLT,MOUNTING,9/16-18,12 POINT | 12              | Prop           |                          |
| MISC ACCES       | A-3074             | BLOCK, BETA FEEDBACK- ASSEMBLY | 1               | Prop           |                          |
| OVERHAUL KIT     | HC-E4A-3D-OH       | O/H KIT                        | 1               | Prop           | For aftermarket use only |



# HARTZELL

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EVANGEL-AIR

**Model:** 4500-300  
**Trade Name:**  
**Aircraft T.C./STC:** A17CE  
**Propeller Model:** HC-C2YK-2BF  
**Propeller T.C.:** P-920  
**Blade Model(s):** FC8475A-4  
**Prop Diameter:** 80" NO CUT OFF

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.5 +-0.1  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 496      **Rev.:** -      **DM Date:** 09/16/2003

**Modifier:**  
**Engine Model:** IO-540-K1B5  
**Power:** 300 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** 19.0 +-1.5  
**Feather/High Angle:** 81.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>         | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|----------------------------|-----------------|----------------|-----------------|
| BLADE            | FC8475A-4          | PCP:BLADE UNIT, ALUMINUM   | 2               | Prop           |                 |
| SPINNER          | 836-29             | SPINNER ASSEMBLY           | 1               | Prop           |                 |
| GOVERNOR         | F6-13A             | GOVERNOR ASSEMBLY, F-6-( ) | 2               | A/C            |                 |
| COUNTERWEIGHT    | B-3202H-4          | PCP:COUNTERWEIGHT          | 1               | Blade          | Blade Component |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20     | 6               | Prop           |                 |

EVANGEL-AIR

**Model:** 4500-300 SERIES II  
**Trade Name:**  
**Aircraft T.C./STC:** A17CE  
**Propeller Model:** HC-C2YK-2B  
**Propeller T.C.:** P-920  
**Blade Model(s):** FC8475A-4  
**Prop Diameter:** 80" NO CUT OFF

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.5 +-0.1  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 497      **Rev.:** -      **DM Date:** 10/01/1992

**Modifier:**  
**Engine Model:** IO-540-K1B5  
**Power:** 300 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** 19.0 +-1.5  
**Feather/High Angle:** 81.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>         | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|----------------------------|-----------------|----------------|-----------------|
| BLADE            | FC8475A-4          | PCP:BLADE UNIT, ALUMINUM   | 2               | Prop           |                 |
| SPINNER          | 836-29             | SPINNER ASSEMBLY           | 1               | Prop           |                 |
| GOVERNOR         | F6-13A             | GOVERNOR ASSEMBLY, F-6-( ) | 2               | A/C            |                 |
| COUNTERWEIGHT    | B-3202H-4          | PCP:COUNTERWEIGHT          | 1               | Blade          | Blade Component |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20     | 6               | Prop           |                 |

# HARTZELL

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### EXPERIMENTAL AIRCRAFT TECH, IN

**Model:** S-90  
**Trade Name:** EXPRESS  
**Aircraft T.C./STC:** Experimental  
**Propeller Model:** HC-F3YR-1RF  
**Propeller T.C.:** P31EA  
**Blade Model(s):** F7663D-2Q  
**Prop Diameter:** 76" NO CUT OFF

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 11.4 +-0.2  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

#### Hartzell Approved Items:

| Item Type     | Item Number | Description              | Quantity | Qty Per | Comments |
|---------------|-------------|--------------------------|----------|---------|----------|
| BLADE         | F7663D-2Q   | PCP:BLADE UNIT, ALUMINUM | 3        | Prop    |          |
| SPINNER       | C-3575-1P   | SPINNER ASSEMBLY         | 1        | Prop    |          |
| SPIN MTG KIT  | A-2476-7    | SPINNER - MTG KIT        | 1        | Prop    |          |
| MTG BOLT/STUD | A-2067      | STUD, MOUNTING, 1/2-20   | 6        | Prop    |          |

**IDS No.:** 1584      **Rev.:** -      **DM Date:** 10/27/1998

**Modifier:**  
**Engine Model:** IO-540-D4A5  
**Power:** 260 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 33.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

### EXPRESS AIRCRAFT

**Model:** S-90 RG  
**Trade Name:** EXPRESS  
**Aircraft T.C./STC:** Experimental  
**Propeller Model:** PHC-J3YF-1RF  
**Propeller T.C.:** P36EA  
**Blade Model(s):** F7693DF  
**Prop Diameter:** 78.0" TO 76.0"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.0 +-0.2  
**Stud Protrusion** 1.450 +-0.030

#### Non-HPI Items:

**Non-HPI Spinner:**

#### Hartzell Approved Items:

| Item Type     | Item Number     | Description              | Quantity | Qty Per | Comments                 |
|---------------|-----------------|--------------------------|----------|---------|--------------------------|
| PROPELLER     | J3F00036        | PHC-J3YF-1RF/F7693DF/SM9 | 1        | A/C     |                          |
| BLADE         | F7693DF         | PCP:BLADE UNIT, ALUMINUM | 3        | Prop    |                          |
| SPINNER       | A-2295-1P       | SPINNER ASSEMBLY         | 1        | Prop    |                          |
| SPIN MTG KIT  | A-2476-9        | SPINNER - MTG KIT        | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2429-4        | STUD, MOUNTING, 1/2-20   | 6        | Prop    |                          |
| OVERHAUL KIT  | PHC-J3YF-1RF-OH | O/H KIT                  | 1        | Prop    | For aftermarket use only |

**IDS No.:** 1880      **Rev.:** 1      **IC Date:** 07/16/2015

**Modifier:**  
**Engine Model:** IO-550-N  
**Power:** 310 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 40.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

# HARTZELL

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### EXPRESS AIRCRAFT

**Model:** S-90 RG  
**Trade Name:** EXPRESS  
**Aircraft T.C./STC:** Experimental  
**Propeller Model:** PHC-J3YF-1RF  
**Propeller T.C.:** P36EA

**Blade Model(s):** F7691  
**Prop Diameter:** 78.0" TO 76.0"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.5 +-0.2  
**Stud Protrusion:** 1.450 +-0.030

#### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 1632      **Rev.:** 1      **IC Date:** 07/16/2015

**Modifier:**

**Engine Model:** IO-550-N

**Power:** 310 HP @ 2700 RPM

**Placard/Restr:** Do not exceed 20 in. MP with propeller below 2200 RPM.

**Notes:**

**Startlock Angle:** NA

**Feather/High Angle:** 35.0 +-1.0

**Cwt Angle:**

**Non-HPI Governor:**

#### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>           | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|------------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | J3F00019           | PHC-J3YF-1RF/F7691/SM7       | 1               | A/C            |                          |
| BLADE            | F7691              | PCP:BLADE UNIT, ALUM [1,1,5] | 3               | Prop           |                          |
| SPINNER          | C-3575-1P          | SPINNER ASSEMBLY             | 1               | Prop           |                          |
| SPIN MTG KIT     | A-2476-7           | SPINNER - MTG KIT            | 1               | Prop           |                          |
| MTG BOLT/STUD    | A-2429-4           | STUD, MOUNTING, 1/2-20       | 6               | Prop           |                          |
| OVERHAUL KIT     | PHC-J3YF-1RF-OH    | O/H KIT                      | 1               | Prop           | For aftermarket use only |

### EXPRESS AIRCRAFT

**Model:** EXPRESS  
**Trade Name:**  
**Aircraft T.C./STC:** Experimental  
**Propeller Model:** HC-E2YR-1BF  
**Propeller T.C.:** P9EA

**Blade Model(s):** F7666A-2  
**Prop Diameter:** 74

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** 14.0 +-0.2  
**Stud Protrusion:**

#### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 2448      **Rev.:** 1      **IC Date:** 07/07/2015

**Modifier:**

**Engine Model:** IO-360-C1C6

**Power:** 200 HP @ 2700 RPM

**Placard/Restr:** Do not exceed 24" manifold pressure below 2400 RPM.

**Notes:**

**Startlock Angle:**

**Feather/High Angle:** 37.5 +-1.0

**Cwt Angle:**

**Non-HPI Governor:**

#### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>       | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|--------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | E2R00030           | HC-E2YR-1BF/F7666A-2/SM4 | 1               | A/C            |                          |
| BLADE            | F7666A-2           | PCP:BLADE UNIT, ALUMINUM | 2               | Prop           |                          |
| SPIN MTG KIT     | A-2476-4           | SPINNER - MTG KIT        | 1               | Prop           |                          |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20   | 6               | Prop           |                          |
| OVERHAUL KIT     | HC-E2YR-1BF-OH     | O/H KIT                  | 1               | Prop           | For aftermarket use only |

# HARTZELL

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Extra

IDS No.: 3610      Rev.: 6      IC      Date: 01/28/2021

**Model:** EA 300/L  
**Trade Name:**  
**Aircraft T.C./STC:** SA09920AC  
**Propeller Model:** HC-C3YR-4BN  
**Propeller T.C.:** P25EA  
**Blade Model(s):** NC8302-7  
**Prop Diameter:** 78"

**Modifier:** Hartzell Propeller, Inc.  
**Engine Model:** AEIO-540-L1B5(D)  
**Power:** 300 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** 10.1 +/- 0.2  
**Stud Protrusion**

**Startlock Angle:**  
**Feather/High Angle:** 31.0 +/- 1.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type     | Item Number | Description                    | Quantity | Qty Per | Comments   |
|---------------|-------------|--------------------------------|----------|---------|--|
| PROPELLER     | C3R67205    | HC-C3YR-4BN/NC8302-7/SM56      | 1        | A/C     |  |
| PROPELLER     | C3R67205KD  | HC-C3YR-4BN/NC8302-7/SM56      | 1        | A/C     |  |
| PROPELLER     | C3R67206    | HC-C3YR-4BN/NC8302-7/SM67      | 1        | A/C     |  |
| PROPELLER     | C3R67206KD  | HC-C3YR-4BN/NC8302-7/SM67      | 1        | A/C     |  |
| BLADE         | NC8302-7    | PCP: BLADE ASSEMBLY, COMPOSITE | 3        | Prop    |  |
| SPINNER       | 107507      | SPINNER ASSEMBLY, COMPOSITE    | 1        | Prop    | Aircraft S/N 1200 and up; Primed for paint; Use with A-2476-56 SMK                 |
| SPINNER       | 107507F1    | SPINNER ASSEMBLY, COMPOSITE    | 1        | Prop    | Aircraft S/N 1200 and up; Painted Matterhorn White; Use with A-2476-56 SMK         |
| SPINNER       | 107507F2    | SPINNER ASSEMBLY, COMPOSITE    | 1        | Prop    | Aircraft S/N 1200 and up; Painted Sterling Silver Metallic; Use with A-2476-56 SMK |
| SPINNER       | 107554      | SPINNER ASSEMBLY, COMPOSITE    | 1        | Prop    | Aircraft S/N 1-1199; Primed for paint; Use with A-2476-67 SMK                      |
| SPINNER       | 107554F1    | SPINNER ASSEMBLY, COMPOSITE    | 1        | Prop    | Aircraft S/N 1-1199; Painted Matterhorn White; Use with A-2476-67 SMK              |
| SPINNER       | 107554F2    | SPINNER ASSEMBLY, COMPOSITE    | 1        | Prop    | Aircraft S/N 1-1199; Painted Sterling Silver Metallic; Use with A-2476-67 SMK      |
| SPIN MTG KIT  | A-2476-56   | SPINNER - MTG KIT              | 1        | Prop    | Use with 107507( ) Spinner   |
| SPIN MTG KIT  | A-2476-67   | SPINNER - MTG KIT              | 1        | Prop    | Use with 107554( ) Spinner   |
| COUNTERWEIGHT | 102437-2    | PCP:COUNTERWEIGHT              | 1        | Blade   |  |
| MTG BOLT/STUD | A-2067      | STUD, MOUNTING, 1/2-20         | 6        | Prop    |  |

# HARTZELL

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EXTRA

IDS No.: 1289 Rev.: - DM Date: 01/07/2004

Model: 300S

Trade Name:

Aircraft T.C./STC: Experimental

Propeller Model: HC-C3YR-1A

Propeller T.C.:

Blade Model(s): 7690C

7690E

Prop Diameter: 78" NO CUT OFF

### Prop Setup:

Ref. Radius: 30

Reverse Angle: NA

Low Pitch Angle: 11.6 +-0.1

Stud Protrusion

### Non-HPI Items:

Non-HPI Spinner:

Modifier:

Engine Model: AEIO-540-L1B5

Power: 300 HP @ 2700 RPM

Placard/Restr:

Notes: Governor requires A-3144-2 Governor Drive Extension and C-6059X valve Assembly with B-1104 Gasket.

Startlock Angle: NA

Feather/High Angle: 32.0 +-1.0

Cwt Angle:

Non-HPI Governor:

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>           | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>     |
|------------------|--------------------|------------------------------|-----------------|----------------|---------------------|
| BLADE            | 7690C              | BLADE ASSEMBLY, COMPOSITE    | 3               | Prop           | SUPERSEDED BY 7690E |
| BLADE            | 7690E              | PCP:BLADE ASSY, COMP [3,1,1] | 3               | Prop           | Supersedes 7690C    |
| SPINNER          | C-3570-P           | SPINNER ASSEMBLY             | 1               | Prop           |                     |
| GOVERNOR         | E2-2               | GOVERNOR ASSEMBLY, E-2-( )   | 1               | A/C            |                     |
| SPIN MTG KIT     | A-2476-6           | SPINNER - MTG KIT            | 1               | Prop           |                     |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20       | 6               | Prop           |                     |

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# HARTZELL

## APPLICATION GUIDE

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### FAIRCHILD

**Model:** 24R46  
**Trade Name:**  
**Aircraft T.C./STC:** A706  
**Propeller Model:** HC-12X20-1,-8,-8A,-8B  
**Propeller T.C.:**  
**Blade Model(s):** 8428  
8428C  
**Prop Diameter:** 84" TO 82.5 "

#### Prop Setup:

**Ref. Radius:** 31  
**Reverse Angle:** NA  
**Low Pitch Angle:** 9.5 +-0.2  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 498      **Rev.:** -      **DM Date:** 10/01/1992

**Modifier:**  
**Engine Model:** 6-440-C2  
**Power:** 175 HP @ 2450 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 20.5 +-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:**

#### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u> | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|--------------------|-----------------|----------------|-----------------|
| BLADE            | 8428               | BLADE CONFIG ITEM  | 2               | Prop           |                 |
| BLADE            | 8428C              | IDS Item           | 2               | Prop           |                 |
| COUNTERWEIGHT    | 833-21             | IDS Item           | 1               | Blade          |                 |

### FAIRCHILD

**Model:** 24R46A  
**Trade Name:**  
**Aircraft T.C./STC:** A706  
**Propeller Model:** HC-12X20-8,-8A,-8B  
**Propeller T.C.:**  
**Blade Model(s):** 8428  
8428C  
**Prop Diameter:** 84" TO 82.5"

#### Prop Setup:

**Ref. Radius:** 31  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.0 +-0.2  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 499      **Rev.:** -      **DM Date:** 10/01/1992

**Modifier:**  
**Engine Model:** 6-440-C5  
**Power:** 200 HP @ 2450 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 21.5 +-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:**

#### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u> | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|--------------------|-----------------|----------------|-----------------|
| BLADE            | 8428               | BLADE CONFIG ITEM  | 2               | Prop           |                 |
| BLADE            | 8428C              | IDS Item           | 2               | Prop           |                 |
| COUNTERWEIGHT    | 833-20             | IDS Item           | 1               | Blade          |                 |

# HARTZELL

## APPLICATION GUIDE 159

### FAIRCHILD

**Model:** M62A (PT-19)  
**Trade Name:** PT-19  
**Aircraft T.C./STC:** A724  
**Propeller Model:** HC-12X20-1  
**Propeller T.C.:**  
**Blade Model(s):** 8428-2  
**Prop Diameter:** 86" TO 84"per tc

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 11.3 +-0.2  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

#### Hartzell Approved Items:

| Item Type     | Item Number | Description | Quantity | Qty Per | Comments |
|---------------|-------------|-------------|----------|---------|----------|
| BLADE         | 8428-2      | IDS Item    | 2        | Prop    |          |
| COUNTERWEIGHT | 833-19      | IDS Item    | 1        | Blade   |          |

**IDS No.:** 500      **Rev.:** -      **DM Date:** 10/01/1992

**Modifier:**  
**Engine Model:** 6-440-C2  
**Power:** 175 HP @ 2450 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 20.1 +-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:**

### FAIRCHILD AIRCRAFT

**Model:** SA26-AT  
**Trade Name:** MERLIN IIB  
**Aircraft T.C./STC:** A5SW  
**Propeller Model:** HC-B3TN-5C, -5E, -5M  
**Propeller T.C.:** P15EA  
**Blade Model(s):** T10178-13R  
                           T10178B-13R\*1  
                           T10178N-13R  
                           T10178NB-13R\*1  
**Prop Diameter:** 88.5" NO CUT OFF

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** -10.0 +-1.0  
**Low Pitch Angle:** 10.5 +-0.1  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

#### Hartzell Approved Items:

| Item Type          | Item Number    | Description                       | Quantity | Qty Per | Comments                 |
|--------------------|----------------|-----------------------------------|----------|---------|--------------------------|
| BLADE              | T10178-13R     | BLADE                             | 3        | Prop    |                          |
| BLADE              | T10178B-13R*1  | IDS ITEM, BLADE, 4E1188-6 BOOT    | 3        | Prop    |                          |
| BLADE              | T10178N-13R    | PCP:BLADE UNIT, ALUMINUM          | 3        | Prop    |                          |
| BLADE              | T10178NB-13R*1 | IDS ITEM, BLADE, 4E1188-6 BOOT    | 3        | Prop    |                          |
| SPINNER            | D-3434-1P      | SPINNER ASSEMBLY                  | 1        | Prop    |                          |
| COUNTERWEIGHT SLUG | A-890-6        | PCP:SLUG, COUNTERWEIGHT           | 1        | Blade   |                          |
| COUNTERWEIGHT SLUG | A-890-9        | PCP:SLUG, COUNTERWEIGHT           | 1        | Blade   |                          |
| COUNTERWEIGHT SLUG | B-3384-25H     | BOLT, 1/4-28, HEX HEAD            | 2        | Blade   |                          |
| DE-ICER            | 4H1188-6       | DE-ICE BOOT                       | 1        | Blade   | Supersedes 7931-4E1188-6 |
| DE-ICE KIT PR      | 7931-65-025-1  | DE-ICE KIT (ONE PROP)             | 1        | Prop    |                          |
| MTG BOLT/STUD      | B-3339         | BOLT, MOUNTING, 9/16-18, 12 POINT | 8        | Prop    |                          |

**IDS No.:** 501      **Rev.:** 2      **IC Date:** 01/27/2020

**Modifier:**  
**Engine Model:** TPE331-1-151G  
**Power:** 665 HP @ 2000 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** 2.5 +-1.0  
**Feather/High Angle:** 87.0 +-1.0  
**Cwt Angle:** Positive

**Non-HPI Governor:**



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**FAIRCHILD AIRCRAFT**

**IDS No.:** 502      **Rev.:** 2      **IC Date:** 07/15/2015

**Model:** SA26-T  
**Trade Name:** MERLIN IIA  
**Aircraft T.C./STC:** A5SW  
**Propeller Model:** HC-B3TN-3B  
**Propeller T.C.:** P15EA  
**Blade Model(s):** T10173E-11  
    T10173NE-11  
**Prop Diameter:** 90.5" TO 90.375"

**Modifier:**  
**Engine Model:** PT6A-20  
**Power:** 550 HP @ 2200 RPM  
**Placard/Restr:**  
**Notes:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** -11.0 +-0.4  
**Low Pitch Angle:** 19.0 +-0.2  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 87.0 +-0.5  
**Cwt Angle:** Positive

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u>               | <u>Item Number</u> | <u>Description</u>                | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>  |
|--------------------------------|--------------------|-----------------------------------|-----------------|----------------|--|
| BLADE                          | T10173E-11         | IDS*ITEM, BLADE, 4E1188-3 BOOT    | 3               | Prop           |  |
| BLADE                          | T10173NE-11        | IDS ITEM, BLADE, 4E1188-3 BOOT    | 3               | Prop           |  |
| SPINNER                        | C-3065-P           | SPINNER ASSEMBLY                  | 1               | Prop           |  |
| COUNTERWEIGHT SLUG A-3039      |                    | SLUG, COUNTERWEIGHT               | 1               | Blade          |  |
| COUNTERWEIGHT SLUG A-890-8     |                    | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          |  |
| COUNTERWEIGHT SLUG B-3384-18H  |                    | BOLT, 1/4-28, HEX HEAD            | 2               | Blade          |  |
| COUNTERWEIGHT SLUG B-3851-0432 |                    | WASHER                            | 2               | Blade          | Optional   |
| COUNTERWEIGHT SLUG B-3851-0463 |                    | WASHER                            | 2               | Blade          | Optional   |
| DE-ICER                        | 4H1188-3           | DE-ICE BOOT                       | 1               | Blade          | Supersedes 7931-4E1188-3                                   |
| MTG BOLT/STUD                  | B-3339             | BOLT, MOUNTING, 9/16-18, 12 POINT | 8               | Prop           |  |
| OVERHAUL KIT                   | 65-090-1-OH*2      | DE-ICE O/H KIT, 4H1188-3 BOOT     | 1               | Prop           | For aftermarket use only(KIT FOR PROP WITHOUT START LOCKS) |

# HARTZELL

## APPLICATION GUIDE

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### FAIRCHILD AIRCRAFT

**Model:** SA226-AT, SA226-TC  
**Trade Name:** METRO, MERLIN IV  
**Aircraft T.C./STC:** A5SW, A8SW  
**Propeller Model:** HC-B3TN-5C, -5E, -5M  
**Propeller T.C.:** P15EA  
**Blade Model(s):** T10282B  
 T10282NB  
**Prop Diameter:** 102" NO CUT OFF

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** -6.0 +-0.5  
**Low Pitch Angle:** NA  
**Stud Protrusion**

**IDS No.:** 507      **Rev.:** 2      **IC Date:** 01/27/2020

**Modifier:**  
**Engine Model:** TPE331-3U-303G, -304G  
**Power:** 940 HP @ 2000 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** 2.0 +-0.1  
**Feather/High Angle:** 89.0 +-0.5  
**Cwt Angle:** 4.5 MIN.

#### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:**

#### Hartzell Approved Items:

| <u>Item Type</u>               | <u>Item Number</u> | <u>Description</u>                | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|--------------------------------|--------------------|-----------------------------------|-----------------|----------------|--------------------------|
| BLADE                          | T10282B            | T10282B BLADE (NO.6), 4E1188-6    | 3               | Prop           |                          |
| BLADE                          | T10282NB           | PCP:BLADE UNIT, ALUM 4H1188-6     | 3               | Prop           |                          |
| SPINNER                        | D-3434-1P          | SPINNER ASSEMBLY                  | 1               | Prop           |                          |
| COUNTERWEIGHT SLUG A-3039      |                    | SLUG, COUNTERWEIGHT               | 1               | Blade          |                          |
| COUNTERWEIGHT SLUG A-890-14    |                    | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          |                          |
| COUNTERWEIGHT SLUG A-890-8     |                    | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          |                          |
| COUNTERWEIGHT SLUG B-3384-34H  |                    | BOLT, 1/4-28, HEX HEAD            | 2               | Blade          |                          |
| COUNTERWEIGHT SLUG B-3851-0432 |                    | WASHER                            | 2               | Blade          | Optional                 |
| COUNTERWEIGHT SLUG B-3851-0463 |                    | WASHER                            | 2               | Blade          |                          |
| DE-ICER                        | 4H1188-6           | DE-ICE BOOT                       | 1               | Blade          | Supersedes 7931-4E1188-6 |
| DE-ICE KIT PR                  | 7931-65-025-1      | DE-ICE KIT (ONE PROP)             | 1               | Prop           |                          |
| MTG BOLT/STUD                  | B-3339             | BOLT, MOUNTING, 9/16-18, 12 POINT | 8               | Prop           |                          |

# HARTZELL

## FAIRCHILD AIRCRAFT

**Model:** SA226-AT, SA226-TC  
**Trade Name:** MERLIN IV

**Aircraft T.C./STC:** STC-SA344GL-D  
**Propeller Model:** HC-B3TN-5M  
**Propeller T.C.:** P15EA  
**Blade Model(s):** T10282NB\*6  
**Prop Diameter:** 102"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** -6.0 +-0.5  
**Low Pitch Angle:** 13.0 +-0.5  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

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**IDS No.:** 505      **Rev.:** 3      **IC Date:** 01/27/2020  
**Modifier:** GARRETT GENERAL AVIATION SERVICE  
CO  
**Engine Model:** TPE331-10UA-501G, -511G  
**Power:** 940 HP @ 2000 RPM  
**Placard/Restr:**  
**Notes:** Also STC-SA4872, D.Parman; May also  
on HC-B3TN-5C, -5E hubs. Reference  
Manual 139 for Airworthiness Limitations.

**Startlock Angle:** 2.0 +-1.0  
**Feather/High Angle:** 89.0 +-0.5  
**Cwt Angle:** 4.5 MIN.

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u>               | <u>Item Number</u> | <u>Description</u>                | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|--------------------------------|--------------------|-----------------------------------|-----------------|----------------|-----------------|
| BLADE                          | T10282NB*6         | IDS ITEM, BLADE                   | 3               | Prop           |                 |
| COUNTERWEIGHT SLUG A-3039      |                    | SLUG, COUNTERWEIGHT               | 1               | Blade          |                 |
| COUNTERWEIGHT SLUG A-890-14    |                    | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          |                 |
| COUNTERWEIGHT SLUG A-890-8     |                    | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          |                 |
| COUNTERWEIGHT SLUG B-3384-34H  |                    | BOLT, 1/4-28, HEX HEAD            | 2               | Blade          |                 |
| COUNTERWEIGHT SLUG B-3851-0432 |                    | WASHER                            | 2               | Blade          | Optional        |
| COUNTERWEIGHT SLUG B-3851-0463 |                    | WASHER                            | 2               | Blade          |                 |
| MTG BOLT/STUD                  | B-3339             | BOLT, MOUNTING, 9/16-18, 12 POINT | 8               | Prop           |                 |

# HARTZELL

## APPLICATION GUIDE

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### FAIRCHILD AIRCRAFT

IDS No.: 508 Rev.: 4 IC Date: 01/27/2020

**Model:** SA226-T(B)  
**Trade Name:** MERLIN III  
**Aircraft T.C./STC:** A5SW  
**Propeller Model:** HC-B4TN-5EL, -5HL, -5KL  
**Propeller T.C.:** P40EA  
**Blade Model(s):** LT10282AB+2.5  
 LT10282ANB+2.5  
**Prop Diameter:** 106.0" NO CUT OFF

**Modifier:**  
**Engine Model:** TPE-331-10U-502G, -512G  
**Power:** 900 HP @ 1591 RPM  
**Placard/Restr:**

**Notes:** See IDS no. 2547 for installation using TPE-331-10U-501G or -511G engine

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** -6.0 +-0.5  
**Low Pitch Angle:** NA  
**Stud Protrusion**

**Startlock Angle:** 2.0 +-0.1  
**Feather/High Angle:** 89.5 +-0.5  
**Cwt Angle:** Positive

#### Non-HPI Items:

Non-HPI Spinner:

Non-HPI Governor:

#### Hartzell Approved Items:

| Item Type                      | Item Number    | Description                       | Quantity | Qty Per | Comments                  |
|--------------------------------|----------------|-----------------------------------|----------|---------|---------------------------|
| PROPELLER                      | B4N10920       | HC-B4TN-5KL/LT10282ANB+2.5        | 2        | A/C     |                           |
| PROPELLER                      | B4N10920KD     | HC-B4TN-5KL/LT10282ANB+2.5        | 2        | A/C     |                           |
| BLADE                          | LT10282AB+2.5  | BLADE, 4E1601-10 BOOT             | 4        | Prop    |                           |
| BLADE                          | LT10282ANB+2.5 | PCP:BLADE UNIT, ALUMINUM          | 4        | Prop    |                           |
| SPINNER                        | D-3434-7P      | SPINNER ASSEMBLY                  | 1        | Prop    |                           |
| SP MT KIT DE-ICE               | B-3384-26H     | BOLT, 1/4-28, HEX HEAD            | 8        | Prop    |                           |
| SP MT KIT DE-ICE               | B-3808-4       | NUT,HEX,SELF-LOCKING              | 12       | Prop    |                           |
| SP MT KIT DE-ICE               | B-3837-0463    | WASHER, CORROSION RESISTANT       | 20       | Prop    |                           |
| SP MT KIT DE-ICE               | B-3865-15A     | BOLT,1/4-28,HEX HEAD,CRES         | 4        | Prop    |                           |
| SP MT KIT DE-ICE               | B-7076-42      | BELLEVILLE SPRING WASHER          | 36       | Prop    |                           |
| COUNTERWEIGHT SLUG A-890-8     |                | PCP:SLUG, COUNTERWEIGHT           | 1        | Blade   |                           |
| COUNTERWEIGHT SLUG B-3384-9H   |                | BOLT, 1/4-28, HEX HEAD            | 2        | Blade   |                           |
| COUNTERWEIGHT SLUG B-3386-14H  |                | BOLT,3/8-24,HEX HEAD              | 2        | Blade   |                           |
| COUNTERWEIGHT SLUG B-3386-9H   |                | IDS Item                          | 2        | Blade   |                           |
| COUNTERWEIGHT SLUG B-3663-1    |                | PCP:SLUG, COUNTERWEIGHT           | 1        | Blade   |                           |
| COUNTERWEIGHT SLUG B-3834-0632 |                | WASHER                            | 2        | Blade   |                           |
| COUNTERWEIGHT SLUG B-3851-0432 |                | WASHER                            | 2        | Blade   | Optional                  |
| COUNTERWEIGHT SLUG B-3851-0463 |                | WASHER                            | 2        | Blade   | Optional                  |
| DE-ICER                        | 4H1601-10      | DE-ICE BOOT                       | 1        | Blade   | Supersedes 7931-4E1601-10 |
| DE-ICE KIT PR                  | 7931-65-210-1A | DE-ICE KIT (ONE PROP)             | 1        | Prop    |                           |
| MTG BOLT/STUD                  | B-3339         | BOLT, MOUNTING, 9/16-18, 12 POINT | 8        | Prop    |                           |
| OVERHAUL KIT                   | HC-B4TN-5KL-OH | O/H KIT                           | 1        | Prop    | For aftermarket use only  |



# HARTZELL

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### FAIRCHILD AIRCRAFT

IDS No.: 2547      Rev.: 4      IC      Date: 01/27/2020

**Model:** SA226-T(B)  
**Trade Name:** MERLIN III  
**Aircraft T.C./STC:** A5SW  
**Propeller Model:** HC-B4TN-5EL, -5HL, -5KL  
**Propeller T.C.:** P40EA  
**Blade Model(s):** LT10282AB+2.5  
 LT10282ANB+2.5  
**Prop Diameter:** 106.0 NO CUT OFF

**Modifier:**  
**Engine Model:** TPE-331-10U-501G, -511G  
**Power:** 900 HP @ 1591 RPM  
**Placard/Restr:**  
**Notes:** See IDS no. 508 for installation using TPE-331-10U-502G or -512G engine

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** -2.0 +-0.5  
**Low Pitch Angle:** NA  
**Stud Protrusion**

**Startlock Angle:** 2.0 +-0.1  
**Feather/High Angle:** 89.5 +-0.5  
**Cwt Angle:** POSITIVE

#### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:**

#### Hartzell Approved Items:

| <u>Item Type</u>               | <u>Item Number</u> | <u>Description</u>                | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>           |
|--------------------------------|--------------------|-----------------------------------|-----------------|----------------|---------------------------|
| PROPELLER                      | B4N10921           | HC-B4TN-5KL/LT10282ANB+2.5        | 2               | A/C            |                           |
| PROPELLER                      | B4N10921KD         | HC-B4TN-5KL/LT10282ANB+2.5        | 2               | A/C            |                           |
| BLADE                          | LT10282AB+2.5      | BLADE, 4E1601-10 BOOT             | 4               | Prop           |                           |
| BLADE                          | LT10282ANB+2.5     | PCP:BLADE UNIT, ALUMINUM          | 4               | Prop           |                           |
| SPINNER                        | D-3437-7P          | BULKHEAD UNIT                     | 1               | Prop           |                           |
| SPINNER                        | D-3437-7P          | BULKHEAD UNIT                     | 1               | Prop           |                           |
| SP MT KIT DE-ICE               | B-3384-26H         | BOLT, 1/4-28, HEX HEAD            | 8               | Prop           |                           |
| SP MT KIT DE-ICE               | B-3808-4           | NUT,HEX,SELF-LOCKING              | 12              | Prop           |                           |
| SP MT KIT DE-ICE               | B-3837-0463        | WASHER, CORROSION RESISTANT       | 20              | Prop           |                           |
| SP MT KIT DE-ICE               | B-3865-15A         | BOLT,1/4-28,HEX HEAD,CRES         | 4               | Prop           |                           |
| SP MT KIT DE-ICE               | B-7076-42          | BELLEVILLE SPRING WASHER          | 36              | Prop           |                           |
| COUNTERWEIGHT SLUG A-890-8     |                    | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          |                           |
| COUNTERWEIGHT SLUG B-3384-9H   |                    | BOLT, 1/4-28, HEX HEAD            | 2               | Blade          |                           |
| COUNTERWEIGHT SLUG B-3386-14H  |                    | BOLT,3/8-24,HEX HEAD              | 2               | Blade          |                           |
| COUNTERWEIGHT SLUG B-3386-9H   |                    | IDS Item                          | 2               | Blade          |                           |
| COUNTERWEIGHT SLUG B-3663-1    |                    | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          |                           |
| COUNTERWEIGHT SLUG B-3834-0632 |                    | WASHER                            | 2               | Blade          |                           |
| COUNTERWEIGHT SLUG B-3851-0432 |                    | WASHER                            | 2               | Blade          | Optional                  |
| COUNTERWEIGHT SLUG B-3851-0463 |                    | WASHER                            | 2               | Blade          | Optional                  |
| DE-ICER                        | 4H1601-10          | DE-ICE BOOT                       | 1               | Blade          | Supersedes 7931-4E1601-10 |
| DE-ICE KIT PR                  | 7931-65-210-1A     | DE-ICE KIT (ONE PROP)             | 1               | Prop           |                           |
| MTG BOLT/STUD                  | B-3339             | BOLT, MOUNTING, 9/16-18, 12 POINT | 8               | Prop           |                           |
| OVERHAUL KIT                   | HC-B4TN-5KL-OH     | O/H KIT                           | 1               | Prop           | For aftermarket use only  |

# HARTZELL

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### FAIRCHILD AIRCRAFT

**Model:** SA226-TC  
**Trade Name:** METRO II  
**Aircraft T.C./STC:** SA 01462NY  
**Propeller Model:** HC-E4N-5D  
**Propeller T.C.:** P10NE

**Blade Model(s):** D9690  
D9690B

**Prop Diameter:** 97.0"-95.0"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** -7.0 +-0.5  
**Low Pitch Angle:** NA  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 1430      **Rev.:** 4      **IC Date:** 01/27/2020

**Modifier:** HARTZELL PROPELLER

**Engine Model:** TPE331-3, -10

**Power:** 940 HP @ 2000 RPM

**Placard/Restr:** Ground idle engine speed must be at or above 70% (1400) RPM.

#### Notes:

**Startlock Angle:** 1.6 +-0.5

**Feather/High Angle:** 86.0 +-0.5

**Cwt Angle:**

**Non-HPI Governor:** NA

#### Hartzell Approved Items:

| Item Type        | Item Number   | Description                    | Quantity | Qty Per | Comments                               |
|------------------|---------------|--------------------------------|----------|---------|--|
| PROPELLER        | E4N00266      | HC-E4N-5D/D9690                | 2        | A/C     |  |
| PROPELLER        | E4N00267      | HC-E4N-5D/D9690B/BULK/DE-ICE   | 2        | A/C     |  |
| PROPELLER        | E4N00267S     | HC-E4N-5D/D9690B/D-5319-P      | 2        | A/C     |  |
| PROPELLER        | E4N00267SKD   | HC-E4N-5D/D9690B/D-5319-P      | 2        | A/C     |  |
| PROPELLER        | E4N00267SKDTP | E4N00267/D-5319-P/FULL DE-ICE  | 2        | A/C     |  |
| PROPELLER        | E4N00267STP   | E4N00267/D-5319-P/FULL DE-ICE  | 2        | A/C     |  |
| BLADE            | D9690         | PCP:BLADE UNIT, ALUMINUM       | 4        | Prop    |  |
| BLADE            | D9690B        | PCP:BLADE UNIT, ALUMINUM       | 4        | Prop    |  |
| SPINNER          | D-5319-P      | SPINNER ASSEMBLY               | 1        | Prop    |  |
| SPIN MTG KIT     | B-3384-2H     | BOLT, 1/4-28, HEX HEAD         | 8        | Prop    |  |
| SPIN MTG KIT     | B-3851-0463   | WASHER                         | 8        | Prop    |  |
| SP MT KIT DE-ICE | A-2070-7      | SCREW, 1/4-28, BUTTON HEAD     | 8        | Prop    |  |
| COUNTERWEIGHT    | C-472-15      | PCP:COUNTERWEIGHT              | 1        | Blade   |  |
| DE-ICER          | 102878        | DE-ICE BOOT                    | 1        | Blade   | Superceedes 4H1601-10 & 7931-4E1601-10 |
| DE-ICE KIT PR    | 7931-5E2647-1 | DE-ICE KIT (ONE PROP)          | 1        | Prop    |  |
| DE-ICE KIT A/F   | 7931-5E2647-2 | AIRFRAME DE-ICE KIT            | 0        |         |  |
| DE-ICE KIT A/F   | 7931-73721-1  | AIRFRAME DE-ICE KIT            | 0        |         |  |
| DE-ICE KIT A/F   | 7931-73721-2  | AIRFRAME DE-ICE KIT            | 0        |         |  |
| DE-ICE KIT A/F   | 7931-73721-3  | AIRFRAME DE-ICE KIT            | 0        |         |  |
| MTG BOLT/STUD    | B-3339-1      | BOLT,MOUNTING,9/16-18,12 POINT | 8        | Prop    |  |
| MISC ACCES       | A-6741-158    | EROSION TAPE, 2" WIDE, 108' RL | 0        | Blade   | Included in blade BOM (12")            |
| OVERHAUL KIT     | HC-E4N-5D-OH  | O/H KIT                        | 1        | Prop    | For aftermarket use only               |

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### FAIRCHILD-HILLER (PILATUS)

**Model:** AU-23  
**Trade Name:** PEACEMAKER  
**Aircraft T.C./STC:** Unknown  
**Propeller Model:** HC-B3TN-5M  
**Propeller T.C.:** P15EA  
**Blade Model(s):** T10282  
T10282N  
**Prop Diameter:** 102.0"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** -9.5 +-0.5  
**Low Pitch Angle:**  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 593      **Rev.:** 2      **IC Date:** 01/27/2020

**Modifier:**  
**Engine Model:** TPE331-1-10F  
**Power:** 665 HP @ 2000 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** 2.0 +-0.2  
**Feather/High Angle:** 88.0 +-1.0  
**Cwt Angle:** Positive

**Non-HPI Governor:**

#### Hartzell Approved Items:

| <u>Item Type</u>               | <u>Item Number</u> | <u>Description</u>                | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|--------------------------------|--------------------|-----------------------------------|-----------------|----------------|-----------------|
| BLADE                          | T10282             | BLADE                             | 3               | Prop           |                 |
| BLADE                          | T10282N            | PCP:BLADE UNIT, ALUMINUM          | 3               | Prop           |                 |
| COUNTERWEIGHT SLUG A-3039      |                    | SLUG, COUNTERWEIGHT               | 1               | Blade          |                 |
| COUNTERWEIGHT SLUG A-890-14    |                    | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          |                 |
| COUNTERWEIGHT SLUG A-890-8     |                    | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          |                 |
| COUNTERWEIGHT SLUG B-3384-34H  |                    | BOLT, 1/4-28, HEX HEAD            | 2               | Blade          |                 |
| COUNTERWEIGHT SLUG B-3851-0432 |                    | WASHER                            | 2               | Blade          | Optional        |
| COUNTERWEIGHT SLUG B-3851-0463 |                    | WASHER                            | 2               | Blade          |                 |
| MTG BOLT/STUD                  | B-3339             | BOLT, MOUNTING, 9/16-18, 12 POINT | 8               | Prop           |                 |

### FALCO

**Model:** see AEROMERE  
**Trade Name:**  
**Aircraft T.C./STC:**  
**Propeller Model:**  
**Propeller T.C.:**  
**Blade Model(s):**  
**Prop Diameter:**

#### Prop Setup:

**Ref. Radius:**  
**Reverse Angle:**  
**Low Pitch Angle:**  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 509      **Rev.:** -      **DM Date:** 10/01/1992

**Modifier:**  
**Engine Model:**  
**Power:** HP @ RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:**  
**Feather/High Angle:**  
**Cwt Angle:**

**Non-HPI Governor:**

#### Hartzell Approved Items:



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### FLETCHER

**Model:** see PACIFIC AEROSPACE  
**Trade Name:**  
**Aircraft T.C./STC:**  
**Propeller Model:**  
**Propeller T.C.:**  
**Blade Model(s):**  
**Prop Diameter:**

#### Prop Setup:

**Ref. Radius:**  
**Reverse Angle:**  
**Low Pitch Angle:**  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

#### Hartzell Approved Items:

**IDS No.:** 513      **Rev.:** -      **DM Date:** 10/01/1992

**Modifier:**  
**Engine Model:**  
**Power:** HP @ RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:**  
**Feather/High Angle:**  
**Cwt Angle:**

**Non-HPI Governor:**

### FLUG & FAHRZEUGWERKE AG

**Model:** AS202/18A  
**Trade Name:** BRAVO  
**Aircraft T.C./STC:** A34EU  
**Propeller Model:** HC-C2YK-1BF  
**Propeller T.C.:** P-920  
**Blade Model(s):** F7666A-2  
**Prop Diameter:** 74" TO 72"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 14.0 +-0.1  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

#### Hartzell Approved Items:

**IDS No.:** 510      **Rev.:** 1      **IC Date:** 07/07/2015

**Modifier:**  
**Engine Model:** AEIO-360-B1F  
**Power:** 180 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 29.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

| Item Type     | Item Number    | Description              | Quantity | Qty Per | Comments                 |
|---------------|----------------|--------------------------|----------|---------|--------------------------|
| PROPELLER     | C2K00045       | HC-C2YK-1BF/F7666A-2     | 1        | A/C     |                          |
| BLADE         | F7666A-2       | PCP:BLADE UNIT, ALUMINUM | 2        | Prop    |                          |
| SPINNER       | 835-33         | SPINNER ASSEMBLY         | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2067         | STUD, MOUNTING, 1/2-20   | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-C2YK-1BF-OH | O/H KIT                  | 1        | Prop    | For aftermarket use only |

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FLUG & FAHRZEUGWERKE AG

IDS No.: 1278 Rev.: 1 D Date: 01/10/2011

**Model:** AS202/32TP  
**Trade Name:** BRAVO  
**Aircraft T.C./STC:** Unknown  
**Propeller Model:** HC-B3TF-7, -7A  
**Propeller T.C.:** P15EA  
**Blade Model(s):** T10173-19R  
T10173N-19R  
**Prop Diameter:** 82.38" TO 80.38"

**Modifier:**  
**Engine Model:** 250-B17C  
**Power:** 420 HP @ 2030 RPM  
**Placard/Restr:**

**Notes:** The aircraft minimum gross weight is 1750 lbs.

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** -2.5 +/-0.5  
**Low Pitch Angle:** NA  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 83.2 +/-0.5  
**Cwt Angle:** Positive

### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u>   | <u>Item Number</u> | <u>Description</u>            | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|--------------------|--------------------|-------------------------------|-----------------|----------------|-----------------|
| BLADE              | T10173-19R         | IDS*ITEM, BLADE               | 3               | Prop           |                 |
| BLADE              | T10173N-19R        | IDS ITEM, BLADE               | 3               | Prop           |                 |
| SPINNER            | 835-39             | SPINNER ASSEMBLY              | 1               | Prop           |                 |
| SPIN MTG KIT       | A-3491             | SPINNER - MTG KIT             | 1               | Prop           |                 |
| COUNTERWEIGHT      | B-3661-7A          | IDS Item                      | 1               | Blade          |                 |
| COUNTERWEIGHT SLUG | B-3386-14H         | BOLT,3/8-24,HEX HEAD          | 2               | Blade          |                 |
| COUNTERWEIGHT SLUG | B-3663-3           | PCP:SLUG, COUNTERWEIGHT       | 1               | Blade          |                 |
| COUNTERWEIGHT SLUG | B-3834-0632        | WASHER                        | 2               | Blade          |                 |
| MTG BOLT/STUD      | A-1328-1           | BOLT,MOUNTING,1/2-20,12 POINT | 6               | Prop           |                 |

# HARTZELL

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### FOUND BROTHERS

**Model:** FBA-2C  
**Trade Name:**  
**Aircraft T.C./STC:** A7EA  
**Propeller Model:** HC-92WK-1D  
**Propeller T.C.:** P16EA  
**Blade Model(s):** W8847N  
**Prop Diameter:** 88" NO CUT OFF

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.0 +-0.2  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 2809      **Rev.:** 1      **D**      **Date:** 01/10/2011

**Modifier:**

**Engine Model:** O-540-A1C5

**Power:** 250 HP @ 2575 RPM

**Placard/Restr:**

**Notes:** Prop substituted for HC-92WK-1D/8847N in accordance with TCDS P16EA

**Startlock Angle:** NA

**Feather/High Angle:** 26.4 +-0.5

**Cwt Angle:** POSITIVE

**Non-HPI Governor:** WOODWARD

#### Hartzell Approved Items:

| <u>Item Type</u>            | <u>Item Number</u> | <u>Description</u>            | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|-----------------------------|--------------------|-------------------------------|-----------------|----------------|-----------------|
| PROPELLER                   | 92K10030           | HC-92WK-1D/W8847N             | 0               |                |                 |
| BLADE                       | W8847N             | PCP:BLADE UNIT, ALUMINUM      | 2               | Prop           |                 |
| SPINNER                     | 835-30             | SPINNER ASSEMBLY              | 1               | Prop           |                 |
| SPINNER                     | 835-30P            | SPINNER ASSEMBLY              | 1               | Prop           |                 |
| COUNTERWEIGHT SLUG A-29-2   |                    | SLUG, COUNTERWEIGHT           | 2               | Blade          |                 |
| COUNTERWEIGHT SLUG B-3840-8 |                    | SCREW, 10-32, FILLISTER HEAD  | 2               | Blade          |                 |
| MTG BOLT/STUD               | A-1333             | BOLT,MOUNTING,1/2-20,HEX HEAD | 4               | Prop           | Primary         |
| MTG BOLT/STUD               | A-1333-2           | IDS Item                      | 2               | Prop           | Primary         |
| MTG BOLT/STUD               | A-1333-3           | BOLT,MOUNTING,1/2-20,HEX HEAD | 2               | Prop           | Secondary       |
| MTG BOLT/STUD               | A-1333-6           | BOLT,MOUNTING,1/2-20,HEX HEAD | 2               | Prop           | Secondary       |

### FOUND BROTHERS

**Model:** 100  
**Trade Name:** CENTENNIAL  
**Aircraft T.C./STC:** A13EA  
**Propeller Model:** HC-92WK-1D  
**Propeller T.C.:**  
**Blade Model(s):** W9350-4.6  
W9350N-4.6  
**Prop Diameter:** 88" NO CUT OFF

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.5 +-0.1  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 514      **Rev.:** -      **DM**      **Date:** 10/01/1992

**Modifier:**

**Engine Model:** IO-540-G1D5

**Power:** 290 HP @ 2575 RPM

**Placard/Restr:**

**Notes:**

**Startlock Angle:** NA

**Feather/High Angle:** 29.4 +-0.5

**Cwt Angle:** Positive

**Non-HPI Governor:**

#### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>         | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>        |
|------------------|--------------------|----------------------------|-----------------|----------------|------------------------|
| BLADE            | W9350-4.6          | IDS ITEM, BLADE            | 2               | Prop           | REPLACED BY W9350N-4.6 |
| BLADE            | W9350N-4.6         | IDS ITEM, BLADE            | 2               | Prop           |                        |
| SPINNER          | 837-3              | SPINNER ASSEMBLY           | 1               | Prop           |                        |
| SPINNER          | 837-4              | IDS Item                   | 1               | Prop           |                        |
| GOVERNOR         | F6-5A              | GOVERNOR ASSEMBLY, F-6-( ) | 1               | A/C            |                        |

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FOUND BROTHERS

IDS No.: 515      Rev.: 1      D      Date: 01/07/2011

**Model:** FBA-2C

**Modifier:**

**Trade Name:**

**Engine Model:** O-540-A1C5

**Aircraft T.C./STC:** A7EA

**Power:** 250 HP @ 2575 RPM

**Propeller Model:** HC-92ZK-1D

**Placard/Restr:**

**Propeller T.C.:** P-892

**Notes:**

**Blade Model(s):** 8847

8847N

**Prop Diameter:** 88" NO CUT OFF

### Prop Setup:

**Ref. Radius:** 30

**Startlock Angle:** NA

**Reverse Angle:** NA

**Feather/High Angle:** 26.4 +-0.5

**Low Pitch Angle:** 12.0 +-0.2

**Cwt Angle:** Positive

**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:** WOODWARD

### Hartzell Approved Items:

| <u>Item Type</u>            | <u>Item Number</u> | <u>Description</u>            | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>        |
|-----------------------------|--------------------|-------------------------------|-----------------|----------------|------------------------|
| PROPELLER                   | 92K10010           | HC-92ZK-1D/8847N              | 1               | A/C            |                        |
| BLADE                       | 8847               | PCP:BLADE UNIT, ALUMINUM      | 2               | Prop           |                        |
| BLADE                       | 8847N              | PCP:BLADE UNIT, ALUMINUM      | 2               | Prop           |                        |
| SPINNER                     | 835-30             | SPINNER ASSEMBLY              | 1               | Prop           |                        |
| SPINNER                     | 835-30P            | SPINNER ASSEMBLY              | 1               | Prop           |                        |
| SPINNER                     | 835-6P             | IDS Item                      | 1               | Prop           | Superseded, use 835-30 |
| COUNTERWEIGHT SLUG A-29-2   |                    | SLUG, COUNTERWEIGHT           | 2               | Blade          |                        |
| COUNTERWEIGHT SLUG B-3840-8 |                    | SCREW, 10-32, FILLISTER HEAD  | 2               | Blade          |                        |
| MTG BOLT/STUD               | A-1333             | BOLT,MOUNTING,1/2-20,HEX HEAD | 4               | Prop           | Primary                |
| MTG BOLT/STUD               | A-1333-2           | IDS Item                      | 2               | Prop           | Primary                |
| MTG BOLT/STUD               | A-1333-3           | BOLT,MOUNTING,1/2-20,HEX HEAD | 2               | Prop           | Secondary              |
| MTG BOLT/STUD               | A-1333-6           | BOLT,MOUNTING,1/2-20,HEX HEAD | 2               | Prop           | Secondary              |

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**FOUND BROTHERS**

IDS No.: 1439      Rev.: 1      IC      Date: 07/16/2015

**Model:** FBA-2C1  
**Trade Name:** BUSH HAWK  
**Aircraft T.C./STC:** A7EA  
**Propeller Model:** HC-C3YR-1RF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** F8468A-2R  
    F8468A-2R\*2  
**Prop Diameter:** 84" TO 78"

**Modifier:**  
**Engine Model:** IO-540-D4A5  
**Power:** 260 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 10.3 +- 0.1  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 31.0 +- 1.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:** WOODWARD

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>             | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|--------------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | C3R00052           | HC-C3YR-1RF/F8468A-2R/SM7      | 1               | A/C            |                          |
| PROPELLER        | C3R00052KD         | HC-C3YR-1RF/F8468A-2R/SM7      | 1               | A/C            |                          |
| PROPELLER        | C3R06051           | HC-C3YR-1RF/F8468A-2R[*2]/SM7  | 0               |                |                          |
| BLADE            | F8468A-2R          | PCP:BLADE UNIT, ALUM [1,1,1,1] | 3               | Prop           |                          |
| BLADE            | F8468A-2R*2        | PCP:BLADE UNIT, ALUM [3,1,1,1] | 3               | Prop           |                          |
| SPINNER          | A-2295-1           | SPINNER ASSEMBLY               | 1               | Prop           |                          |
| SPINNER          | A-2295-1P          | SPINNER ASSEMBLY               | 1               | Prop           |                          |
| SPIN MTG KIT     | A-2476-7           | SPINNER - MTG KIT              | 1               | Prop           |                          |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20         | 6               | Prop           |                          |
| OVERHAUL KIT     | HC-C3YR-1RF-OH     | O/H KIT                        | 1               | Prop           | For aftermarket use only |

# HARTZELL

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### FOUND BROTHERS

**Model:** FBA-2C1  
**Trade Name:** BUSH HAWK  
**Aircraft T.C./STC:** A7EA  
**Propeller Model:** HC-C3YR-1RF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** F8068  
 F8068\*3  
 F8068+2  
 F8068+2\*1

**Prop Diameter:** 82"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.3 +-0.2  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 1687      **Rev.:** 1      **IC Date:** 07/16/2015

**Modifier:**  
**Engine Model:** IO-540-L1C5  
**Power:** 300 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 31.0 +- 1.0  
**Cwt Angle:**

**Non-HPI Governor:**

#### Hartzell Approved Items:

| Item Type     | Item Number    | Description                  | Quantity | Qty Per | Comments                 |
|---------------|----------------|------------------------------|----------|---------|--------------------------|
| PROPELLER     | C3R00056       | HC-C3YR-1RF/F8068/SM7        | 1        | A/C     |                          |
| PROPELLER     | C3R00066       | HC-C3YR-1RF/F8068+2/SM7      | 1        | A/C     |                          |
| PROPELLER     | C3R00067       | HC-C3YR-1RF/F8068[*3]/SM7    | 0        |         |                          |
| PROPELLER     | C3R00068       | HC-C3YR-1RF/F8068+2[*1]/SM7  | 1        | A/C     |                          |
| BLADE         | F8068          | PCP:BLADE UNIT, ALUM [1,1,5] | 3        | Prop    |                          |
| BLADE         | F8068*3        | PCP:BLADE UNIT, ALUM [3,1,1] | 3        | Prop    |                          |
| BLADE         | F8068+2        | PCP:BLADE UNIT, ALUM [1,1,5] | 3        | Prop    |                          |
| BLADE         | F8068+2*1      | PCP:BLADE UNIT, ALUM [3,1,5] | 3        | Prop    |                          |
| SPINNER       | C-3575-P       | SPINNER ASSEMBLY             | 1        | Prop    |                          |
| GOVERNOR      | V5-4           | GOVERNOR ASSEMBLY, V-5-( )   | 1        | A/C     |                          |
| SPIN MTG KIT  | A-2476-7       | SPINNER - MTG KIT            | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2067         | STUD, MOUNTING, 1/2-20       | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-C3YR-1RF-OH | O/H KIT                      | 1        | Prop    | For aftermarket use only |

### FRAKES

**Model:** see GRUMMAN, NORD  
**Trade Name:**  
**Aircraft T.C./STC:**  
**Propeller Model:**  
**Propeller T.C.:**  
**Blade Model(s):**

**Prop Diameter:**

#### Prop Setup:

**Ref. Radius:**  
**Reverse Angle:**  
**Low Pitch Angle:**  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 516      **Rev.:** -      **DM Date:** 10/01/1992

**Modifier:**  
**Engine Model:**  
**Power:** HP @ RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:**  
**Feather/High Angle:**  
**Cwt Angle:**

**Non-HPI Governor:**

#### Hartzell Approved Items:

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**FUJI**

**Model:** 700  
**Trade Name:** COMMANDER 700  
**Aircraft T.C./STC:** A8PC  
**Propeller Model:** HC-E3YR-2ATF  
**Propeller T.C.:** P33EA

**Blade Model(s):** FC8468-5R  
 FC8468B-5R  
**Prop Diameter:** 81" TO 79"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 14.8 +-0.1  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number | Description              | Quantity | Qty Per | Comments                 |
|---------------|-------------|--------------------------|----------|---------|--------------------------|
| BLADE         | FC8468-5R   | PCP:BLADE UNIT, ALUMINUM | 3        | Prop    |                          |
| BLADE         | FC8468B-5R  | BLADE UNIT, ALUMINUM     | 3        | Prop    |                          |
| SPINNER       | D-3273-2    | SPINNER ASSEMBLY         | 1        | Prop    |                          |
| SPIN MTG KIT  | A-2476-11   | SPINNER - MTG KIT        | 1        | Prop    |                          |
| COUNTERWEIGHT | B-3202H-2   | PCP:COUNTERWEIGHT        | 1        | Blade   | Blade Component          |
| DE-ICER       | 4H1601-7    | DE-ICE BOOT              | 1        | Blade   | Supersedes 7931-4E1601-7 |
| DE-ICE KIT PR | 7931-65-135 | IDS ITEM - DE-ICE KIT    | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2067      | STUD, MOUNTING, 1/2-20   | 6        | Prop    |                          |

**IDS No.:** 519      **Rev.:** -      **DM Date:** 11/20/2006

**Modifier:**  
**Engine Model:** TIO-540-R2AD  
**Power:** 340 HP @ 2500 RPM  
**Placard/Restr:** Engine tachometer must be calibrated annually.

**Notes:**

**Startlock Angle:** 20.3 +-1.5  
**Feather/High Angle:** 84.0 +-0.5  
**Cwt Angle:**

**Non-HPI Governor:**

**FUJI**

**Model:** 710  
**Trade Name:**  
**Aircraft T.C./STC:** A8PC  
**Propeller Model:** HC-C3YN-2LDUF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** FJC9684-3R  
 FJC9684B-3R  
**Prop Diameter:** 93" NO CUT OFF

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 19.0 +-0.1  
**Stud Protrusion** 1.580 +-0.030

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number | Description              | Quantity | Qty Per | Comments                 |
|---------------|-------------|--------------------------|----------|---------|--------------------------|
| BLADE         | FJC9684-3R  | PCP:BLADE UNIT, ALUMINUM | 3        | Prop    |                          |
| BLADE         | FJC9684B-3R | PCP:BLADE UNIT, ALUMINUM | 3        | Prop    |                          |
| SPINNER       | D-3273-1L   | IDS Item                 | 1        | Prop    |                          |
| COUNTERWEIGHT | B-3202H-1   | PCP:COUNTERWEIGHT        | 1        | Blade   | Blade Component          |
| DE-ICER       | 4H1601-3    | DE-ICE BOOT              | 1        | Blade   | Supersedes 7931-4E1601-3 |
| MTG BOLT/STUD | A-3254      | STUD, MOUNTING, 9/16-18  | 8        | Prop    |                          |

**IDS No.:** 520      **Rev.:** -      **DM Date:** 09/26/2006

**Modifier:**  
**Engine Model:** TIGO-541-D1B  
**Power:** 450 HP @ 2133 RPM  
**Placard/Restr:**

**Notes:**

**Startlock Angle:** 24.5 +-1.5  
**Feather/High Angle:** 86.1 +-0.5  
**Cwt Angle:**

**Non-HPI Governor:**

# HARTZELL

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**FUJI**

**Model:** T-3, LM-2  
**Trade Name:** TRAINER  
**Aircraft T.C./STC:** Unknown  
**Propeller Model:** HC-83V20-1F, HC-A3V20-1F  
**Propeller T.C.:** P6EA  
**Blade Model(s):** V9333N-3  
**Prop Diameter:** 90.6"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 17.0 +-0.1  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type                    | Item Number | Description                | Quantity | Qty Per | Comments |
|------------------------------|-------------|----------------------------|----------|---------|----------|
| BLADE                        | V9333N-3    | BLADE                      | 3        | Prop    |          |
| COUNTERWEIGHT SLUG A-890-5   |             | PCP:SLUG, COUNTERWEIGHT    | 1        | Blade   |          |
| COUNTERWEIGHT SLUG B-3384-9H |             | BOLT, 1/4-28, HEX HEAD     | 2        | Blade   |          |
| MTG BOLT/STUD                | A-63B       | PCP: NUT, SHAFT, 20 SPLINE | 1        | Prop    |          |
| MTG BOLT/STUD                | A-63-B      | NUT,SHAFT,20 SPLINE        | 1        | Prop    |          |

**IDS No.:** 2176      **Rev.:** -      **DM Date:** 11/20/2003

**Modifier:**  
**Engine Model:** IGSO-480-A1F6  
**Power:** 340 HP @ 2182 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 37.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

**FUJI**

**Model:** T-3, LM-2  
**Trade Name:** TRAINER  
**Aircraft T.C./STC:** Unknown  
**Propeller Model:** HC-A3MV20-1F  
**Propeller T.C.:** P6EA  
**Blade Model(s):** MV9333N-3  
**Prop Diameter:** 90.6"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 17.0 +-0.1  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type                    | Item Number     | Description                | Quantity | Qty Per | Comments                 |
|------------------------------|-----------------|----------------------------|----------|---------|--------------------------|
| PROPELLER                    | A3210051        | HC-A3MV20-1F/MV9333N-3     | 1        | A/C     |                          |
| BLADE                        | MV9333N-3       | PCP:BLADE UNIT, ALUMINUM   | 3        | Prop    |                          |
| COUNTERWEIGHT SLUG A-890-5   |                 | PCP:SLUG, COUNTERWEIGHT    | 1        | Blade   |                          |
| COUNTERWEIGHT SLUG B-3384-9H |                 | BOLT, 1/4-28, HEX HEAD     | 2        | Blade   |                          |
| MTG BOLT/STUD                | A-63B           | PCP: NUT, SHAFT, 20 SPLINE | 1        | Prop    |                          |
| MTG BOLT/STUD                | A-63-B          | NUT,SHAFT,20 SPLINE        | 1        | Prop    |                          |
| OVERHAUL KIT                 | HC-A3MV20-1F-OH | O/H KIT                    | 1        | Prop    | For aftermarket use only |

**IDS No.:** 517      **Rev.:** 2      **IC Date:** 07/07/2015

**Modifier:**  
**Engine Model:** IGSO-480-A1F6  
**Power:** 340 HP @ 2182 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 37.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**



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**FUJI**

IDS No.: 518      Rev.: 2      IC      Date: 07/15/2015

**Model:** KM-2D (T-5)  
**Trade Name:**  
**Aircraft T.C./STC:** Unknown  
**Propeller Model:** HC-B3TF-7A  
**Propeller T.C.:** P15EA  
**Blade Model(s):** T10173N-18\*1  
**Prop Diameter:** 83.5"

**Modifier:**  
**Engine Model:** 250-B17B  
**Power:** 350 HP @ 2030 RPM  
**Placard/Restr:**  
**Notes:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** -11.0 +/- 0.5  
**Low Pitch Angle:**  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 85.0 +/- 1.0  
**Cwt Angle:** Positive

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u>               | <u>Item Number</u> | <u>Description</u>             | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>               |
|--------------------------------|--------------------|--------------------------------|-----------------|----------------|-------------------------------|
| PROPELLER                      | B3F10063           | HC-B3TF-7A/T10173N-18[*1]      | 1               | A/C            | PROP LESS C-3630-2 BETA VALVE |
| PROPELLER                      | B3F10065           | HC-B3TF-7A/T10173N-18[*1]      | 1               | A/C            | PROP WITH C-3630-2 BETA VALVE |
| PROPELLER                      | B3F10071           | HC-B3TF-7A/T10173N-18*1PAINTED | 1               | A/C            | PROP LESS C-3630-2 BETA VALVE |
| PROPELLER                      | B3F10072           | HC-B3TF-7A/T10173N-18*1PAINTED | 1               | A/C            | PROP WITH C-3630-2 BETA VALVE |
| BLADE                          | T10173N-18*1       | PCP:BLADE UNIT, ALUM [1,0,0]   | 3               | Prop           | Paint w/no tips               |
| SPINNER                        | 835-39             | SPINNER ASSEMBLY               | 1               | Prop           |                               |
| SPIN MTG KIT                   | A-3491             | SPINNER - MTG KIT              | 1               | Prop           |                               |
| COUNTERWEIGHT SLUG B-3386-14H  |                    | BOLT,3/8-24,HEX HEAD           | 2               | Blade          |                               |
| COUNTERWEIGHT SLUG B-3663-3    |                    | PCP:SLUG, COUNTERWEIGHT        | 1               | Blade          |                               |
| COUNTERWEIGHT SLUG B-3663-3P   |                    | PCP:SLUG, COUNTERWEIGHT        | 1               | Blade          | Props w/painted hub/cwt/clamp |
| COUNTERWEIGHT SLUG B-3834-0632 |                    | WASHER                         | 2               | Blade          |                               |
| MTG BOLT/STUD                  | A-1328-1           | BOLT,MOUNTING,1/2-20,12 POINT  | 6               | Prop           |                               |
| OVERHAUL KIT                   | HC-B3TF-7A-OH      | O/H KIT                        | 1               | Prop           | For aftermarket use only      |

# HARTZELL

## APPLICATION GUIDE 159

**FUJI**

IDS No.: 2818      Rev.: 2      IC      Date: 07/15/2015

**Model:** KM-2D Modified (T-7)  
**Trade Name:**  
**Aircraft T.C./STC:** Unknown  
**Propeller Model:** HC-B3TF-7A  
**Propeller T.C.:** P15EA  
**Blade Model(s):** T10173N-18\*1  
**Prop Diameter:** 83.125"

**Modifier:**  
**Engine Model:** 250-B17F  
**Power:** 450 HP @ 2030 RPM  
**Placard/Restr:**  
**Notes:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** -11.0+/-0.5  
**Low Pitch Angle:**  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 85.0 +/- 1.0  
**Cwt Angle:** Positive

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u>               | <u>Item Number</u> | <u>Description</u>             | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>               |
|--------------------------------|--------------------|--------------------------------|-----------------|----------------|-------------------------------|
| PROPELLER                      | B3F10063           | HC-B3TF-7A/T10173N-18[*1]      | 1               | A/C            | PROP LESS C-3630-2 BETA VALVE |
| PROPELLER                      | B3F10065           | HC-B3TF-7A/T10173N-18[*1]      | 1               | A/C            | PROP WITH C-3630-2 BETA VALVE |
| PROPELLER                      | B3F10071           | HC-B3TF-7A/T10173N-18*1PAINTED | 1               | A/C            | PROP LESS C-3630-2 BETA VALVE |
| PROPELLER                      | B3F10072           | HC-B3TF-7A/T10173N-18*1PAINTED | 1               | A/C            | PROP WITH C-3630-2 BETA VALVE |
| BLADE                          | T10173N-18*1       | PCP:BLADE UNIT, ALUM [1,0,0]   | 3               | Prop           | Paint w/no tips               |
| SPINNER                        | 835-39             | SPINNER ASSEMBLY               | 1               | Prop           |                               |
| SPINNER                        | 835-39P            | SPINNER ASSEMBLY               | 1               | Prop           |                               |
| SPIN MTG KIT                   | A-3491             | SPINNER - MTG KIT              | 1               | Prop           |                               |
| COUNTERWEIGHT SLUG B-3386-14H  |                    | BOLT,3/8-24,HEX HEAD           | 2               | Blade          |                               |
| COUNTERWEIGHT SLUG B-3663-3    |                    | PCP:SLUG, COUNTERWEIGHT        | 1               | Blade          |                               |
| COUNTERWEIGHT SLUG B-3663-3P   |                    | PCP:SLUG, COUNTERWEIGHT        | 1               | Blade          | Props w/painted hub/cwt/clamp |
| COUNTERWEIGHT SLUG B-3834-0632 |                    | WASHER                         | 2               | Blade          |                               |
| MTG BOLT/STUD                  | A-1328-1           | BOLT,MOUNTING,1/2-20,12 POINT  | 6               | Prop           |                               |
| MISC ACCES                     | C-3630-2           | PCP:BETA VALVE - ASSEMBLY      | 1               | Prop           |                               |
| OVERHAUL KIT                   | HC-B3TF-7A-OH      | O/H KIT                        | 1               | Prop           | For aftermarket use only      |

# HARTZELL

## APPLICATION GUIDE 159

### GAF - GOVERNMENT AIRCRAFT FACTO

**Model:** see AEROSPACE TECHNOLOGIES

**Trade Name:**

**Aircraft T.C./STC:**

**Propeller Model:**

**Propeller T.C.:**

**Blade Model(s):**

**Prop Diameter:**

#### Prop Setup:

**Ref. Radius:**

**Reverse Angle:**

**Low Pitch Angle:**

**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

#### Hartzell Approved Items:

**IDS No.:** 1384

**Rev.:** -

**DM Date:** 10/01/1992

**Modifier:**

**Engine Model:**

**Power:** HP @ RPM

**Placard/Restr:**

**Notes:**

**Startlock Angle:**

**Feather/High Angle:**

**Cwt Angle:**

**Non-HPI Governor:**

### Game Composites

**Model:** GB-1

**Trade Name:** Gamebird

**Aircraft T.C./STC:** Field Approval

**Propeller Model:** HC-C3YR-4N

**Propeller T.C.:** P25EA

**Blade Model(s):** NC8302-7

**Prop Diameter:** 78"

#### Prop Setup:

**Ref. Radius:** 30"

**Reverse Angle:**

**Low Pitch Angle:** 10.8 +/- 0.2

**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

#### Hartzell Approved Items:

**IDS No.:** 3836

**Rev.:** 2

**IC Date:** 09/07/2021

**Modifier:**

**Engine Model:** AEIO-580-B1A

**Power:** 303 HP @ 2600 RPM

**Placard/Restr:**

**Notes:**

**Startlock Angle:**

**Feather/High Angle:** 31.0 +/- 1.0

**Cwt Angle:**

**Non-HPI Governor:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>             | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|--------------------------------|-----------------|----------------|-----------------|
| PROPELLER        | C3R67070           | HC-C3YR-4N/NC8302-7/SM67       | 1               | A/C            |                 |
| BLADE            | NC8302-7           | PCP: BLADE ASSEMBLY, COMPOSITE | 3               | Prop           |                 |
| SPINNER          | D-7409-3           | SPINNER ASSEMBLY, COMPOSITE    | 1               | A/C            |                 |
| GOVERNOR         | S-4-8              | GOVERNOR ASSEMBLY, S-4-8       | 1               | A/C            |                 |
| SPIN MTG KIT     | A-2476-67          | SPINNER - MTG KIT              | 1               | Prop           |                 |
| COUNTERWEIGHT    | 102437             | PCP:COUNTERWEIGHT              | 1               | Blade          |                 |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20         | 6               | Prop           |                 |

# HARTZELL

## APPLICATION GUIDE

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### GENERAL AVIA

**Model:** F.20  
**Trade Name:** PEGASO  
**Aircraft T.C./STC:** A38EU  
**Propeller Model:** HC-C2YF-2CDF  
**Propeller T.C.:**  
**Blade Model(s):** FC8475-6\*1  
**Prop Diameter:** 78" NO CUT OFF

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.7 +/-0.2  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 523      **Rev.:** -      **DM Date:** 10/01/1992

**Modifier:**  
**Engine Model:** IO-520-F  
**Power:** 300 HP @ 2850 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** 19.2 +/-1.5  
**Feather/High Angle:** 80.5 +/-0.5  
**Cwt Angle:**

**Non-HPI Governor:** WOODWARD

#### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>            | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|-------------------------------|-----------------|----------------|-----------------|
| BLADE            | FC8475-6*1         | PCP:BLADE UNIT, B-3202H-2 CWT | 2               | Prop           |                 |
| SPINNER          | 836-30             | IDS Item                      | 1               | Prop           |                 |
| COUNTERWEIGHT    | B-3202H-2          | PCP:COUNTERWEIGHT             | 1               | Blade          | Blade Component |

### GENERAL AVIA

**Model:** F.20  
**Trade Name:** PEGASO  
**Aircraft T.C./STC:** Unknown  
**Propeller Model:** HC-C3YF-2UF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** FC8468A-8R  
**Prop Diameter:** 78"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 10.0 +/-0.1  
**Stud Protrusion** 1.450 +/- .030

#### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 525      **Rev.:** 1      **IC Date:** 10/24/2019

**Modifier:**  
**Engine Model:** IO-520-K  
**Power:** 300 HP @ 2850 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** 15.5 +/-1.5  
**Feather/High Angle:** 83.0 +/-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

#### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>       | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>         |
|------------------|--------------------|--------------------------|-----------------|----------------|-------------------------|
| BLADE            | FC8468A-8R         | PCP:BLADE UNIT, ALUMINUM | 3               | Prop           |                         |
| SPINNER          | C-4558-3P          | SPINNER ASSEMBLY         | 1               | Prop           | Supersedes C-4558-P     |
| SPINNER          | C-4558-P           | SPINNER ASSEMBLY         | 1               | Prop           | Superseded by C-4558-3P |
| SPIN MTG KIT     | A-2476-9           | SPINNER - MTG KIT        | 1               | Prop           |                         |
| COUNTERWEIGHT    | B-3202H-2          | PCP:COUNTERWEIGHT        | 1               | Blade          | Blade Component         |
| MTG BOLT/STUD    | A-2429-4           | STUD, MOUNTING, 1/2-20   | 6               | Prop           |                         |

# HARTZELL

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### GENERAL AVIA

**Model:** F.22-C  
**Trade Name:** PINGUINO  
**Aircraft T.C./STC:** A75EU  
**Propeller Model:** HC-C2YK-1BF  
**Propeller T.C.:** P-920

**Blade Model(s):** F7666A-4  
**Prop Diameter:** 72"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 14.0 +-0.1  
**Stud Protrusion**

#### Non-HPI Items:

Non-HPI Spinner:

#### Hartzell Approved Items:

| Item Type     | Item Number    | Description                | Quantity | Qty Per | Comments                 |
|---------------|----------------|----------------------------|----------|---------|--------------------------|
| PROPELLER     | C2K00061       | HC-C2YK-1BF/F7666A-4/SM19  | 1        | A/C     |                          |
| BLADE         | F7666A-4       | PCP:BLADE UNIT, ALUMINUM   | 2        | Prop    |                          |
| SPINNER       | A-2298-2       | SPINNER ASSEMBLY           | 1        | Prop    |                          |
| SPINNER       | A-2298-2P      | SPINNER ASSEMBLY           | 1        | Prop    |                          |
| GOVERNOR      | E6-1           | GOVERNOR ASSEMBLY, E-6-( ) | 1        | A/C     |                          |
| SPIN MTG KIT  | A-2476-19      | SPINNER - MTG KIT          | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2067         | STUD, MOUNTING, 1/2-20     | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-C2YK-1BF-OH | O/H KIT                    | 1        | Prop    | For aftermarket use only |

IDS No.: 526 Rev.: 1 IC Date: 07/07/2015

**Modifier:**  
**Engine Model:** O-360-A1A  
**Power:** 180 HP @ 2700 RPM  
**Placard/Restr:** Avoid continuous operation between 2000 and 2250 RPM

#### Notes:

**Startlock Angle:** NA  
**Feather/High Angle:** 29.0 +-1.0  
**Cwt Angle:**

Non-HPI Governor:

### GENERAL AVIA

**Model:** F.22-R  
**Trade Name:** SPRINT  
**Aircraft T.C./STC:** A75EU  
**Propeller Model:** HC-C2YL-1BF  
**Propeller T.C.:** P-920  
**Blade Model(s):** F7663A-4  
**Prop Diameter:** 72"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.0 +-0.1  
**Stud Protrusion**

#### Non-HPI Items:

Non-HPI Spinner:

#### Hartzell Approved Items:

| Item Type     | Item Number    | Description                      | Quantity | Qty Per | Comments                 |
|---------------|----------------|----------------------------------|----------|---------|--------------------------|
| PROPELLER     | C2L00049       | HC-C2YL-1BF/F7663A-4/SM10        | 1        | A/C     |                          |
| BLADE         | F7663A-4       | PCP:BLADE UNIT, ALUMINUM         | 2        | Prop    |                          |
| SPINNER       | A-2298-2       | SPINNER ASSEMBLY                 | 1        | Prop    |                          |
| SPINNER       | A-2298-2P      | SPINNER ASSEMBLY                 | 1        | Prop    |                          |
| GOVERNOR      | E6-1           | GOVERNOR ASSEMBLY, E-6-( )       | 1        | A/C     |                          |
| SPIN MTG KIT  | A-2476-10      | SPINNER - MTG KIT                | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2247-1       | STUD, MOUNTING, 7/16-20, DRILLED | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-C2YL-1BF-OH | O/H KIT                          | 1        | Prop    | For aftermarket use only |

IDS No.: 1153 Rev.: 1 IC Date: 07/07/2015

**Modifier:**  
**Engine Model:** O-320-D1A  
**Power:** 160 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 29.0 +-1.0  
**Cwt Angle:**

Non-HPI Governor:

# HARTZELL

## GENERAL DYNAMICS

**Model:** 28-5ACF  
**Trade Name:**  
**Aircraft T.C./STC:** STC-SA1853WE  
**Propeller Model:** HC-83XF-3A  
**Propeller T.C.:**  
**Blade Model(s):**  
**Prop Diameter:**

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:**  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

### Hartzell Approved Items:

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**IDS No.:** 527      **Rev.:** -      **DM Date:** 04/29/2002

**Modifier:** BIRD CORP.  
**Engine Model:** GSO-480-B2D6  
**Power:** 340 HP @ 2182 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:**  
**Feather/High Angle:**  
**Cwt Angle:**

**Non-HPI Governor:**

## GENERAL DYNAMICS

**Model:** 28-5ACF  
**Trade Name:**  
**Aircraft T.C./STC:** STC-SA1853WE  
**Propeller Model:** HC-83XF-3A  
**Propeller T.C.:**  
**Blade Model(s):**  
**Prop Diameter:**

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:**  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

### Hartzell Approved Items:

**IDS No.:** 2177      **Rev.:** -      **DM Date:** 11/20/2003

**Modifier:** BIRD CORP.  
**Engine Model:** GSO-480-B2D6  
**Power:** 340 HP @ 2182 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:**  
**Feather/High Angle:**  
**Cwt Angle:**

**Non-HPI Governor:**

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### GENEVATION

**Model:** GenPro  
**Trade Name:**  
**Aircraft T.C./STC:** Experimental  
**Propeller Model:** HC-C3YR-4N  
**Propeller T.C.:** P25EA  
**Blade Model(s):** NC8302-7\*1  
**Prop Diameter:** 78"

#### Prop Setup:

**Ref. Radius:** 30"  
**Reverse Angle:**  
**Low Pitch Angle:** 12.0 +/- 0.2  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 3618      **Rev.:** -      **IC**      **Date:** 06/01/2018

**Modifier:**  
**Engine Model:** AEIO-580-B1A  
**Power:** 315 HP @ 2700 RPM  
**Placard/Restr:** None.  
**Notes:**

**Startlock Angle:**  
**Feather/High Angle:** 31.0 +/- 1.0  
**Cwt Angle:**

**Non-HPI Governor:**

#### Hartzell Approved Items:

| Item Type     | Item Number | Description                    | Quantity | Qty Per | Comments |
|---------------|-------------|--------------------------------|----------|---------|----------|
| PROPELLER     | C3R67050    | HC-C3YR-4N/NC8302-7*1/SM68     | 1        | A/C     |          |
| BLADE         | NC8302-7*1  | PCP: BLADE ASSEMBLY, COMPOSITE | 3        | Prop    |          |
| SPINNER       | D-7409-3    | SPINNER ASSEMBLY, COMPOSITE    | 1        | Prop    |          |
| GOVERNOR      | S-4-8       | GOVERNOR ASSEMBLY, S-4-8       | 1        | A/C     |          |
| SPIN MTG KIT  | A-2476-68   | SPINNER MOUNTING KIT           | 1        | Prop    |          |
| COUNTERWEIGHT | 102437      | PCP:COUNTERWEIGHT              | 1        | Blade   |          |
| MTG BOLT/STUD | A-2067      | STUD, MOUNTING, 1/2-20         | 6        | Prop    |          |

### GIPPSLAND

**Model:** GA8  
**Trade Name:**  
**Aircraft T.C./STC:** VA503 (Australia)  
**Propeller Model:** HC-C3YR-1RF  
**Propeller T.C.:** P25EA  
  
**Blade Model(s):** F8068\*1  
**Prop Diameter:** 82" - 78"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** 12.8 +/- 0.2  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 2964      **Rev.:** 1      **IC**      **Date:** 07/16/2015

**Modifier:**  
**Engine Model:** IO-540-K1A5  
**Power:** 300 HP @ 2700 RPM  
**Placard/Restr:** Propeller functional/cycling checks must be performed above 1300 RPM.  
**Notes:**

**Startlock Angle:**  
**Feather/High Angle:** 29 +/- 1.0  
**Cwt Angle:**

**Non-HPI Governor:**

#### Hartzell Approved Items:

| Item Type     | Item Number    | Description                  | Quantity | Qty Per | Comments                 |
|---------------|----------------|------------------------------|----------|---------|--------------------------|
| PROPELLER     | C3R02003       | HC-C3YR-1RF/F8068[*1]/SM7    | 1        | A/C     |                          |
| PROPELLER     | C3R02003KD     | HC-C3YR-1RF/F8068[*1]/SM7    | 1        | A/C     |                          |
| BLADE         | F8068*1        | PCP:BLADE UNIT, ALUM [6,1,5] | 3        | Prop    |                          |
| SPINNER       | C-3575         | SPINNER ASSEMBLY             | 1        | Prop    |                          |
| SPINNER       | C-3575-P       | SPINNER ASSEMBLY             | 1        | Prop    |                          |
| GOVERNOR      | S-1-47         | GOVERNOR ASSEMBLY, S-1-47    | 1        | A/C     |                          |
| SPIN MTG KIT  | A-2476-7       | SPINNER - MTG KIT            | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2067         | STUD, MOUNTING, 1/2-20       | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-C3YR-1RF-OH | O/H KIT                      | 1        | Prop    | For aftermarket use only |

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GIPPSLAND

**Model:** GA8-TC 320  
**Trade Name:**  
**Aircraft T.C./STC:** VA503 (Australia)  
**Propeller Model:** HC-C3YR-1RF  
**Propeller T.C.:** P25EA

**Blade Model(s):** F8068\*1  
**Prop Diameter:** 82

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** 14.5+-0.2  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 2754      **Rev.:** 3      **IC Date:** 07/16/2015

**Modifier:**

**Engine Model:** TIO-540-AH1A

**Power:** 300 HP @ 2500 RPM

**Placard/Restr:** Propeller function / cycle checks must be performed above 1300 RPM.

**Notes:**

**Startlock Angle:**

**Feather/High Angle:** 29.0 +-1.0

**Cwt Angle:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>           | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|------------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | C3R02002           | HC-C3YR-1RF/F8068[*1]/SM7    | 0               |                |                          |
| PROPELLER        | C3R02002KD         | HC-C3YR-1RF/F8068[*1]/SM7    | 0               |                |                          |
| BLADE            | F8068*1            | PCP:BLADE UNIT, ALUM [6,1,5] | 3               | Prop           |                          |
| SPINNER          | C-3575             | SPINNER ASSEMBLY             | 1               | A/C            |                          |
| SPINNER          | C-3575-P           | SPINNER ASSEMBLY             | 1               | A/C            |                          |
| GOVERNOR         | S-1-25             | GOVERNOR ASSEMBLY, S-1-25    | 1               | A/C            |                          |
| SPIN MTG KIT     | A-2476-7           | SPINNER - MTG KIT            | 1               | Prop           |                          |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20       | 6               | Prop           |                          |
| OVERHAUL KIT     | HC-C3YR-1RF-OH     | O/H KIT                      | 1               | Prop           | For aftermarket use only |



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### GIPPSLAND AERONAUTICS

**Model:** GA-10  
**Trade Name:**  
**Aircraft T.C./STC:** Experimental  
**Propeller Model:** HC-D3F-7H  
**Propeller T.C.:** P18NE  
**Blade Model(s):** D9511F-11  
**Prop Diameter:** 84 to 82 inches

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** -10 +/- 0.5  
**Low Pitch Angle:**  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 3245      **Rev.:** -      **DM Date:** 07/02/2013

**Modifier:**  
**Engine Model:** 250-B17F/2  
**Power:** 450 HP @ 2030 RPM  
**Placard/Restr:** None  
**Notes:**

**Startlock Angle:**  
**Feather/High Angle:** 86.0 +/- 0.5  
**Cwt Angle:**

**Non-HPI Governor:**

#### Hartzell Approved Items:

| Item Type     | Item Number | Description                   | Quantity | Qty Per | Comments |
|---------------|-------------|-------------------------------|----------|---------|----------|
| PROPELLER     | D3F00900    | HC-D3F-7H/D9511F-11/SM9       | 1        | A/C     |          |
| PROPELLER     | D3F00900KD  | HC-D3F-7H/D9511F-11/SM9       | 1        | A/C     |          |
| BLADE         | D9511F-11   | PCP:BLADE UNIT, ALUMINUM      | 3        | Prop    |          |
| SPINNER       | 104781      | SPINNER ASSEMBLY              | 1        | Prop    |          |
| SPINNER       | 104781P     | SPINNER ASSEMBLY              | 1        | Prop    |          |
| SPIN MTG KIT  | A-2476-9    | SPINNER - MTG KIT             | 1        | Prop    |          |
| COUNTERWEIGHT | B-3202H-6   | PCP:COUNTERWEIGHT             | 1        | Blade   |          |
| MTG BOLT/STUD | A-1328      | BOLT,MOUNTING,1/2-20,12 POINT | 6        | Prop    |          |
| MISC ACCES    | D-751-2     | PCP:BETA VALVE - ASSEMBLY     | 1        | Prop    |          |

### GIPPSLAND AERONAUTICS

**Model:** GA8  
**Trade Name:**  
**Aircraft T.C./STC:** A00011LA  
**Propeller Model:** HC-C2YR-1BF  
**Propeller T.C.:** P-920  
**Blade Model(s):** F8475R  
**Prop Diameter:** 84

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.0 +/-0.2  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 2497      **Rev.:** 2      **IC Date:** 07/07/2015

**Modifier:**  
**Engine Model:** IO-540-K1A5  
**Power:** 300 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 29.0 +/-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

#### Hartzell Approved Items:

| Item Type     | Item Number    | Description               | Quantity | Qty Per | Comments                 |
|---------------|----------------|---------------------------|----------|---------|--------------------------|
| PROPELLER     | C2R00052       | HC-C2YR-1BF/F8475R/SM19   | 1        | A/C     |                          |
| BLADE         | F8475R         | PCP:BLADE UNIT, ALUMINUM  | 2        | Prop    |                          |
| SPINNER       | A-2298-2P      | SPINNER ASSEMBLY          | 1        | Prop    |                          |
| GOVERNOR      | S-1-47         | GOVERNOR ASSEMBLY, S-1-47 | 1        | A/C     |                          |
| SPIN MTG KIT  | A-2476-19      | SPINNER - MTG KIT         | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2067         | STUD, MOUNTING, 1/2-20    | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-C2YR-1BF-OH | O/H KIT                   | 1        | Prop    | For aftermarket use only |

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### GIPPSLAND AERONAUTICS

**Model:** GA-8  
**Trade Name:**  
**Aircraft T.C./STC:** Unknown  
**Propeller Model:** HC-C3YR-1RF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** F8468A-2R  
**Prop Diameter:** 84

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 11.4 +-0.2  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 1207      **Rev.:** -      **DM Date:** 10/31/1996

**Modifier:**  
**Engine Model:** IO-540-K series  
**Power:** 300 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 29.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

#### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>           | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|------------------------------|-----------------|----------------|-----------------|
| BLADE            | F8468A-2R          | PCP:BLADE UNIT, ALUM [1,1,1] | 3               | Prop           |                 |
| SPINNER          | C-3575-P           | SPINNER ASSEMBLY             | 1               | Prop           |                 |
| SPIN MTG KIT     | A-2476-25          | SPINNER - MTG KIT            | 1               | Prop           |                 |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20       | 6               | Prop           |                 |

### GIPPSLAND AERONAUTICS

**Model:** GA-200C  
**Trade Name:**  
**Aircraft T.C./STC:** A00001LA  
**Propeller Model:** HC-C2YR-1BF  
**Propeller T.C.:** P-920  
**Blade Model(s):** F8475R  
**Prop Diameter:** 84

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.0 +-0.2  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 1206      **Rev.:** 1      **IC Date:** 07/07/2015

**Modifier:**  
**Engine Model:** IO-540-K1A5  
**Power:** 300 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 29.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

#### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>       | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|--------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | C2R00052           | HC-C2YR-1BF/F8475R/SM19  | 1               | A/C            |                          |
| BLADE            | F8475R             | PCP:BLADE UNIT, ALUMINUM | 2               | Prop           |                          |
| SPINNER          | A-2298-2P          | SPINNER ASSEMBLY         | 1               | Prop           |                          |
| SPIN MTG KIT     | A-2476-19          | SPINNER - MTG KIT        | 1               | Prop           |                          |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20   | 6               | Prop           |                          |
| OVERHAUL KIT     | HC-C2YR-1BF-OH     | O/H KIT                  | 1               | Prop           | For aftermarket use only |

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### GLASAIR

**Model:** SPORTSMAN, GLASTAR  
**Trade Name:** Sportsman, Glastar  
**Aircraft T.C./STC:** Experimental  
**Propeller Model:** HC-C2YR-1NX  
**Propeller T.C.:**  
**Blade Model(s):** NG8301-3X1  
 NG8301X1  
**Prop Diameter:** 80", 83"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** 11.2 +/- 0.2  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

#### Hartzell Approved Items:

| Item Type     | Item Number | Description                 | Quantity | Qty Per | Comments |
|---------------|-------------|-----------------------------|----------|---------|----------|
| PROPELLER     | C2R34000X   | HC-C2YR-1NX/NG8301X1/SM19   | 1        | A/C     |          |
| PROPELLER     | C2R40503X   | HC-C2YR-1NX/NG8301-3X1/SM19 | 1        | A/C     |          |
| BLADE         | NG8301-3X1  | PCP:BLADE ASSY, COMPOSITE   | 2        | Prop    |          |
| BLADE         | NG8301X1    | PCP:BLADE ASSY, COMPOSITE   | 2        | Prop    |          |
| SPIN MTG KIT  | A-2476-19   | SPINNER - MTG KIT           | 1        | Prop    |          |
| MTG BOLT/STUD | A-2067      | STUD, MOUNTING, 1/2-20      | 6        | Prop    |          |

**IDS No.:** 3183      **Rev.:** 3      **IC Date:** 09/16/2022

**Modifier:** Hartzell Propeller  
**Engine Model:** IO-390, 360  
**Power:** 210 HP @ 2700 RPM  
**Placard/Restr:** Refer to Hartzell Manual 193, Vol. 1.  
**Notes:** Remove TC, PC and assembly S/N from hub. Remove PC from blades.

**Startlock Angle:**  
**Feather/High Angle:** 30.0 +/- 1.0  
**Cwt Angle:**

**Non-HPI Governor:**

### GLASAIR AVIATION

**Model:** SPORTSMAN 2+2  
**Trade Name:**  
**Aircraft T.C./STC:** Experimental  
**Propeller Model:** HC-C2YR-1BFP  
**Propeller T.C.:** P-920  
**Blade Model(s):** F7497  
 F7497\*5  
**Prop Diameter:** 74" TO 72"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** 13.6 +/-0.2  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:** GLASAIR

#### Hartzell Approved Items:

| Item Type     | Item Number    | Description                    | Quantity | Qty Per | Comments                 |
|---------------|----------------|--------------------------------|----------|---------|--------------------------|
| PROPELLER     | C2R10701       | HC-C2YR-1BFP/F7497/SM19        | 1        | A/C     |                          |
| PROPELLER     | C2R10714       | HC-C2YR-1BFP/F7497[*5]/SM19    | 1        | A/C     |                          |
| BLADE         | F7497          | PCP:BLADE UNIT, ALUM [6,1,11]  | 2        | Prop    |                          |
| BLADE         | F7497*5        | PCP:BLADE UNIT, ALUM [11,9,11] | 2        | Prop    |                          |
| GOVERNOR      | S-1-22         | GOVERNOR ASSEMBLY, S-1-22      | 1        | A/C     |                          |
| SPIN MTG KIT  | A-2476-19      | SPINNER - MTG KIT              | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2067         | STUD, MOUNTING, 1/2-20         | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-C2YR-1BF-OH | O/H KIT                        | 1        | Prop    | For aftermarket use only |

**IDS No.:** 3556      **Rev.:** -      **IC Date:** 08/02/2017

**Modifier:**  
**Engine Model:** IO-360-M1A  
**Power:** 180 HP @ 2700 RPM  
**Placard/Restr:** None  
**Notes:**

**Startlock Angle:**  
**Feather/High Angle:** 36.0 +/-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

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### GLASAIR AVIATION

**Model:** SPORTSMAN, GLASTAR  
**Trade Name:** Sportsman, Glastar  
**Aircraft T.C./STC:** Experimental  
**Propeller Model:** HC-C2YR-1BFPX  
**Propeller T.C.:**  
**Blade Model(s):** F7497  
 F7497\*5  
 F7497X

**Prop Diameter:** 74" TO 72"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** 13.6 +/-0.2  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:** GLASAIR

#### Hartzell Approved Items:

| Item Type     | Item Number    | Description                    | Quantity | Qty Per | Comments                 |
|---------------|----------------|--------------------------------|----------|---------|--------------------------|
| PROPELLER     | C2R10701       | HC-C2YR-1BFP/F7497/SM19        | 1        | A/C     | superseded by X hardware |
| PROPELLER     | C2R10701X      | HC-C2YR-1BFPX/F7497X/SM19      | 1        | A/C     |                          |
| PROPELLER     | C2R10714       | HC-C2YR-1BFP/F7497[*5]/SM19    | 1        | A/C     | superseded by X hardware |
| BLADE         | F7497          | PCP:BLADE UNIT, ALUM [6,1,11]  | 2        | Prop    | superseded by X hardware |
| BLADE         | F7497*5        | PCP:BLADE UNIT, ALUM [11,9,11] | 2        | Prop    | superseded by X hardware |
| BLADE         | F7497X         | PCP:BLADE UNIT, ALUM [6,1,11]  | 2        | Prop    |                          |
| GOVERNOR      | S-1-22         | GOVERNOR ASSEMBLY, S-1-22      | 1        | A/C     |                          |
| SPIN MTG KIT  | A-2476-19      | SPINNER - MTG KIT              | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2067         | STUD, MOUNTING, 1/2-20         | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-C2YR-1BF-OH | O/H KIT                        | 1        | Prop    | For aftermarket use only |

**IDS No.:** 2631      **Rev.:** 3      **IC Date:** 09/15/2022

**Modifier:**  
**Engine Model:** (I)O-360, 390  
**Power:** 210 HP @ 2700 RPM  
**Placard/Restr:** Per Hartzell Manual 193, Vol 1.  
**Notes:** Remove TC, PC, and assembly S/N from hub. Remove PC from blades.

**Startlock Angle:**  
**Feather/High Angle:** 36.0 +/-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

### GLASAIR AVIATION

**Model:** Sportsman 2+2  
**Trade Name:**  
**Aircraft T.C./STC:** Experimental  
**Propeller Model:** HC-C2YR-1N  
**Propeller T.C.:** P-920  
**Blade Model(s):** N7605  
**Prop Diameter:** 76"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** 12.0 +/- 0.2  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

#### Hartzell Approved Items:

| Item Type     | Item Number | Description               | Quantity | Qty Per | Comments |
|---------------|-------------|---------------------------|----------|---------|----------|
| PROPELLER     | C2R31054    | HC-C2YR-1N/N7605/SM8      | 1        | A/C     |          |
| BLADE         | N7605       | PCP:BLADE ASSY, COMPOSITE | 2        | Prop    |          |
| SPIN MTG KIT  | A-2476-8    | SPINNER - MTG KIT         | 1        | Prop    |          |
| MTG BOLT/STUD | A-2067      | STUD, MOUNTING, 1/2-20    | 6        | Prop    |          |

**IDS No.:** 3030      **Rev.:** 1      **BC Date:** 05/20/2014

**Modifier:**  
**Engine Model:** IO-390  
**Power:** 210 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:**  
**Feather/High Angle:** 30.0 +/- 1.0  
**Cwt Angle:**

**Non-HPI Governor:**

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### GLASAIR AVIATION

**Model:** Super 2SGR  
**Trade Name:**  
**Aircraft T.C./STC:** Experimental  
**Propeller Model:** HC-C2YR-1N  
**Propeller T.C.:** P-920  
**Blade Model(s):** N7605-4  
**Prop Diameter:** 72"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** 12.1 +/-0.2  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number | Description               | Quantity | Qty Per | Comments |
|---------------|-------------|---------------------------|----------|---------|----------|
| PROPELLER     | C2R33001    | HC-C2YR-1N/N7605-4/SM8    | 1        | A/C     |          |
| BLADE         | N7605-4     | PCP:BLADE ASSY, COMPOSITE | 2        | Prop    |          |
| SPIN MTG KIT  | A-2476-8    | SPINNER - MTG KIT         | 1        | Prop    |          |
| MTG BOLT/STUD | A-2067      | STUD, MOUNTING, 1/2-20    | 6        | Prop    |          |

**IDS No.:** 3090      **Rev.:** -      **DM Date:** 07/12/2011

**Modifier:**  
**Engine Model:** (I)O-360 Series  
**Power:** 180 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:**  
**Feather/High Angle:** 32.0 +/- 2.0  
**Cwt Angle:**

**Non-HPI Governor:**

### GLASAIR AVIATION

**Model:** SUPER 2SRG GLASAIR  
**Trade Name:**  
**Aircraft T.C./STC:** Experimental  
**Propeller Model:** HC-C2YR-1BFP  
**Propeller T.C.:** P-920  
**Blade Model(s):** F7497  
 F7497-2  
 F7499  
 F7499-2

**Prop Diameter:** 74" TO 72"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** 13.5 +- 0.2  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:** GLASAIR AVIATION

**Hartzell Approved Items:**

| Item Type     | Item Number    | Description                   | Quantity | Qty Per | Comments                 |
|---------------|----------------|-------------------------------|----------|---------|--------------------------|
| PROPELLER     | C2R10707       | HC-C2YR-1BFP/F7497/SM8        | 0        |         |                          |
| PROPELLER     | C2R10752       | HC-C2YR-1BFP/F7497-2/SM8      | 0        |         |                          |
| BLADE         | F7497          | PCP:BLADE UNIT, ALUM [6,1,11] | 2        | Prop    |                          |
| BLADE         | F7497-2        | PCP:BLADE UNIT, ALUM [6,1,11] | 2        | Prop    |                          |
| BLADE         | F7499          | PCP:BLADE UNIT, ALUM [6,1,11] | 2        | Prop    |                          |
| BLADE         | F7499-2        | PCP:BLADE UNIT, ALUM [6,1,11] | 2        | Prop    |                          |
| SPIN MTG KIT  | A-2476-8       | SPINNER - MTG KIT             | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2067         | STUD, MOUNTING, 1/2-20        | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-C2YR-1BF-OH | O/H KIT                       | 1        | Prop    | For aftermarket use only |

**IDS No.:** 2737      **Rev.:** 1      **IC Date:** 07/07/2015

**Modifier:**  
**Engine Model:** IO-360-B1( ), E1A, F1A  
**Power:** 180 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:**  
**Feather/High Angle:** 39.0 +-2.0  
**Cwt Angle:**

**Non-HPI Governor:**

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### GLASAIR AVIATION

**Model:** GS-1  
**Trade Name:** GLASTAR  
**Aircraft T.C./STC:** Experimental  
**Propeller Model:** HC-C2YL-1BFX  
**Propeller T.C.:**

**Blade Model(s):** F7663-4  
**Prop Diameter:** 72" TO 70"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 11.1 +-0.2  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 2589      **Rev.:** 3      **IC Date:** 06/30/2022

**Modifier:**  
**Engine Model:** 320 SERIES  
**Power:** 160 HP @ 2700 RPM

**Placard/Restr:** With dual magneto ignition and 8.5:1 compression ratio or less: None.

**Notes:** Remove TC, PC and assembly S/N from hub. Remove PC from blades.

**Startlock Angle:** NA  
**Feather/High Angle:** 38.5 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

#### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>             | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>                               |
|------------------|--------------------|--------------------------------|-----------------|----------------|---|
| PROPELLER        | C2L00040           | HC-C2YL-1BF/F7663-4/SM8        | 1               | A/C            | Superseded by experimental prop P/N C2L00040X |
| PROPELLER        | C2L00040X          | HC-C2YL-1BFX/F7663-4X/SM8      | 1               | A/C            |   |
| BLADE            | F7663-4            | PCP:BLADE UNIT, ALUMINUM       | 2               | Prop           |   |
| SPIN MTG KIT     | A-2476-8           | SPINNER - MTG KIT              | 1               | Prop           |   |
| MTG BOLT/STUD    | A-2247-1           | STUD, MOUNTING,7/16-20,DRILLED | 6               | Prop           |   |
| OVERHAUL KIT     | HC-C2YL-1BF-OH     | O/H KIT                        | 1               | Prop           | For aftermarket use only                      |

### GLOBE

**Model:** GC-1A  
**Trade Name:**  
**Aircraft T.C./STC:** SA2859WE  
**Propeller Model:** HC-C2YL-1BF  
**Propeller T.C.:** P-920  
**Blade Model(s):** F7663A-4  
**Prop Diameter:** 72"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** 12.0 +-0.1  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 2461      **Rev.:** 1      **IC Date:** 07/07/2015

**Modifier:**  
**Engine Model:** 0320-A3B  
**Power:** 150 HP @ 2700 RPM

**Placard/Restr:**

**Notes:**

**Startlock Angle:**  
**Feather/High Angle:** 27.6 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

#### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>             | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|--------------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | C2L00045           | HC-C2YL-1BF/F7663A-4           | 1               | A/C            |                          |
| BLADE            | F7663A-4           | PCP:BLADE UNIT, ALUMINUM       | 2               | Prop           |                          |
| SPINNER          | 835-33             | SPINNER ASSEMBLY               | 1               | A/C            |                          |
| MTG BOLT/STUD    | A-2247-1           | STUD, MOUNTING,7/16-20,DRILLED | 6               | Prop           |                          |
| OVERHAUL KIT     | HC-C2YL-1BF-OH     | O/H KIT                        | 1               | Prop           | For aftermarket use only |

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### GOODYEAR (LOCKHEED MARTIN TACT)

Model: GZ19, 19A  
Trade Name: GOODYEAR BLIMP  
Aircraft T.C./STC: TC1  
Propeller Model: not procurable  
Propeller T.C.:  
Blade Model(s):  
Prop Diameter: 93.2"

#### Prop Setup:

Ref. Radius: 30  
Reverse Angle: -12.0 +-0.5  
Low Pitch Angle: NA  
Stud Protrusion

#### Non-HPI Items:

Non-HPI Spinner:

#### Hartzell Approved Items:

| Item Type | Item Number | Description                      | Quantity | Qty Per | Comments |
|-----------|-------------|----------------------------------|----------|---------|----------|
| GOVERNOR  | B5          | IDS ITEM CONFIGURATION UNKNOWN 1 |          | A/C     |          |

IDS No.: 533 Rev.: 1 D Date: 01/07/2011

Modifier:  
Engine Model: GO-300-F  
Power: 154 HP @ 2400 RPM  
Placard/Restr:  
Notes:

Startlock Angle: NA  
Feather/High Angle: 20.5 +-0.5  
Cwt Angle: Positive

Non-HPI Governor:

### GOODYEAR (LOCKHEED MARTIN TACT)

Model: GZ19, 19A  
Trade Name: GOODYEAR BLIMP  
Aircraft T.C./STC: TC1  
Propeller Model: HC-82XF-3L  
Propeller T.C.:  
Blade Model(s):  
Prop Diameter: 93.2"

#### Prop Setup:

Ref. Radius: 30  
Reverse Angle: -12.0  
Low Pitch Angle: NA  
Stud Protrusion

#### Non-HPI Items:

Non-HPI Spinner:

#### Hartzell Approved Items:

| Item Type | Item Number | Description                      | Quantity | Qty Per | Comments |
|-----------|-------------|----------------------------------|----------|---------|----------|
| GOVERNOR  | B5          | IDS ITEM CONFIGURATION UNKNOWN 1 |          | Prop    |          |

IDS No.: 2178 Rev.: - DM Date: 11/20/2003

Modifier:  
Engine Model: GO-300-F  
Power: 154 HP @ 2400 RPM  
Placard/Restr:  
Notes:

Startlock Angle: NA  
Feather/High Angle: 20.5 +-0.5  
Cwt Angle: Positive

Non-HPI Governor:

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### GOODYEAR (LOCKHEED MARTIN TACT)

**Model:** GA22A  
**Trade Name:** GOODYEAR DRAKE  
**Aircraft T.C./STC:** 1A12  
**Propeller Model:** not procurable  
**Propeller T.C.:**  
**Blade Model(s):**  
**Prop Diameter:** 88" TO 86.5 "

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** -9.5 +-0.5  
**Low Pitch Angle:** 12.5 +-0.2  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:** GOODYEAR

#### Hartzell Approved Items:

**IDS No.:** 535      **Rev.:** 1      **IC Date:** 07/10/2019

**Modifier:**  
**Engine Model:** E-225-8  
**Power:** 225 HP @ 2600 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 20.0 +- Unknown  
**Cwt Angle:**

**Non-HPI Governor:**

### GOODYEAR (LOCKHEED MARTIN TACT)

**Model:** GZ22  
**Trade Name:** GOODYEAR BLIMP  
**Aircraft T.C./STC:** AS1GL  
**Propeller Model:** HC-D3F-7  
**Propeller T.C.:** P18NE  
  
**Blade Model(s):** D7023  
**Prop Diameter:** 70.0" NO CUT OFF

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** -24.5 +-0.5  
**Low Pitch Angle:** NA  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

#### Hartzell Approved Items:

**IDS No.:** 536      **Rev.:** -      **DM Date:** 03/06/2001

**Modifier:**  
**Engine Model:** 250-B17C  
**Power:** 450 HP @ 2030 RPM  
**Placard/Restr:** Do not exceed 30% of engine torque during propeller reversing.  
**Notes:** Also formerly Loral

**Startlock Angle:** NA  
**Feather/High Angle:** 77.0 +-0.5  
**Cwt Angle:**

**Non-HPI Governor:**

| Item Type     | Item Number | Description                   | Quantity | Qty Per | Comments |
|---------------|-------------|-------------------------------|----------|---------|----------|
| BLADE         | D7023       | PCP:BLADE UNIT, ALUM/COMP     | 3        | Prop    |          |
| SPINNER       | D-5253      | SPINNER ASSEMBLY              | 1        | Prop    |          |
| SPIN MTG KIT  | B-3385-4H   | BOLT, 5/16-24, HEX HEAD       | 6        | Prop    |          |
| SPIN MTG KIT  | B-3837-0532 | WASHER, CORROSION RESISTANT   | 6        | Prop    |          |
| COUNTERWEIGHT | C-342       | PCP:COUNTERWEIGHT - UNIT      | 1        | Blade   |          |
| MTG BOLT/STUD | A-1328-2    | BOLT,MOUNTING,1/2-20,12 POINT | 6        | Prop    |          |



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**GOODYEAR (LOCKHEED MARTIN)**

IDS No.: 534 Rev.: 2 IC Date: 07/06/2015

**Model:** GZ20, GZ20A

**Trade Name:** Airship

**Aircraft T.C./STC:** TC1

**Propeller Model:** BHC-92WF-3LG

**Propeller T.C.:** P16EA

**Blade Model(s):** LW8447A-6R

LW8447A-8Q

LW8447AN-6R

LW8447AN-8Q

**Prop Diameter:** 77.6" (7R), 75.6" (8Q)

**Prop Setup:**

**Ref. Radius:** 30

**Reverse Angle:** -13.0 +-0.5

**Low Pitch Angle:** 8.75 +-0.5

**Stud Protrusion** \*SEE NOTES

**Modifier:**

**Engine Model:** IO-360-D

**Power:** 210 HP @ 2800 RPM

**Placard/Restr:**

**Notes:** \*Hand tighten until stud bottoms on spinner support, then back out 1/4 turn.

**Startlock Angle:** NA

**Feather/High Angle:** 21.0 +-0.5

**Cwt Angle:** Positive

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u>              | <u>Item Number</u> | <u>Description</u>             | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|-------------------------------|--------------------|--------------------------------|-----------------|----------------|--------------------------|
| PROPELLER                     | 92F00047           | BHC-92WF-3LG/LW8447AN-8Q       | 2               | A/C            |                          |
| BLADE                         | LW8447A-6R         | BLADE UNIT, ALUMINUM           | 2               | Prop           | REPLACED BY LW8447AN-6R  |
| BLADE                         | LW8447A-8Q         | BLADE UNIT, ALUMINUM           | 2               | Prop           | REPLACED BY LW8447AN-8Q  |
| BLADE                         | LW8447AN-6R        | PCP:BLADE UNIT, ALUMINUM       | 2               | Prop           |                          |
| BLADE                         | LW8447AN-8Q        | PCP:BLADE UNIT, ALUMINUM       | 2               | Prop           |                          |
| GOVERNOR                      | F6-19              | GOVERNOR ASSEMBLY, F-6- ( )    | 2               | A/C            |                          |
| GOVERNOR                      | F6-19A             | GOVERNOR ASSEMBLY, F-6- ( )    | 2               | A/C            |                          |
| COUNTERWEIGHT SLUG A-619-6    |                    | SLUG, COUNTERWEIGHT            | 1               | Blade          |                          |
| COUNTERWEIGHT SLUG A-890-8    |                    | PCP:SLUG, COUNTERWEIGHT        | 1               | Blade          |                          |
| COUNTERWEIGHT SLUG B-3384-21H |                    | BOLT, 1/4-28, HEX HEAD         | 2               | Blade          |                          |
| COUNTERWEIGHT SLUG B-3808-4   |                    | NUT,HEX,SELF-LOCKING           | 2               | Blade          |                          |
| MTG BOLT/STUD                 | A-2986             | STUD, MOUNTING, 1/2-20         | 6               | Prop           |                          |
| MISC ACCES                    | A-3044             | BLOCK, BETA FEEDBACK- ASSEMBLY | 1               | Prop           |                          |
| OVERHAUL KIT                  | BHC-92WF-3LG-OH    | O/H KIT                        | 1               | Prop           | For aftermarket use only |

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### GREAT LAKES

**Model:** 2T-1A-1, 2T-1A-2  
**Trade Name:**  
**Aircraft T.C./STC:** A18EA  
**Propeller Model:** HC-C2YK-4F  
**Propeller T.C.:** P-920  
**Blade Model(s):** FC7666A-2  
**Prop Diameter:** 74.0" NO CUT OFF

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.5 +-0.2  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 1281      **Rev.:** -      **DM Date:** 12/03/2001

**Modifier:**  
**Engine Model:** IO-360-B1F6, AEIO-360-B1G6  
**Power:** 180 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 26.8 +-0.5  
**Cwt Angle:**

**Non-HPI Governor:**

#### Hartzell Approved Items:

| Item Type     | Item Number | Description                   | Quantity | Qty Per | Comments        |
|---------------|-------------|-------------------------------|----------|---------|-----------------|
| PROPELLER     | C2K00701    | HC-C2YK-4F/FC7666A-2          | 0        |         |                 |
| BLADE         | FC7666A-2   | PCP:BLADE UNIT, B-3202H-6 CWT | 2        | Prop    |                 |
| SPINNER       | 835-41      | SPINNER ASSEMBLY              | 1        | Prop    |                 |
| SPINNER       | 835-41P     | SPINNER ASSEMBLY              | 1        | Prop    |                 |
| GOVERNOR      | F6-31       | GOVERNOR ASSEMBLY, F-6-( )    | 1        | Prop    |                 |
| COUNTERWEIGHT | B-3202H-6   | PCP:COUNTERWEIGHT             | 1        | Blade   | Blade Component |
| MTG BOLT/STUD | A-2067      | STUD, MOUNTING, 1/2-20        | 6        | Prop    |                 |

### GREAT LAKES

**Model:** 2T-1A-2  
**Trade Name:**  
**Aircraft T.C./STC:** Experimental  
**Propeller Model:** HC-B3TF-7A  
**Propeller T.C.:** P15EA  
**Blade Model(s):** T10173-6  
 T10173N-6  
**Prop Diameter:** 94.6"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** -10.5 +-0.5  
**Low Pitch Angle:** NA  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 538      **Rev.:** -      **DM Date:** 01/09/2004

**Modifier:**  
**Engine Model:** 250-B15  
**Power:** 317 HP @ 2025 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 85.0 +-1.0  
**Cwt Angle:** Unknown

**Non-HPI Governor:**

#### Hartzell Approved Items:

| Item Type     | Item Number | Description                   | Quantity | Qty Per | Comments |
|---------------|-------------|-------------------------------|----------|---------|----------|
| BLADE         | T10173-6    | IDS*ITEM, BLADE               | 3        | Prop    |          |
| BLADE         | T10173N-6   | IDS ITEM, BLADE               | 3        | Prop    |          |
| MTG BOLT/STUD | A-1328-1    | BOLT,MOUNTING,1/2-20,12 POINT | 6        | Prop    |          |

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### GREAT LAKES

**Model:** 2T-1A-2  
**Trade Name:**  
**Aircraft T.C./STC:** Experimental  
**Propeller Model:** HC-A3VF-7  
**Propeller T.C.:** P6EA  
**Blade Model(s):**  
**Prop Diameter:** 89.6"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** -13.5 +-0.5  
**Low Pitch Angle:** NA  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 2179      **Rev.:** -      **DM Date:** 11/20/2003

**Modifier:**  
**Engine Model:** 250-B17C  
**Power:** 420 HP @ 2030 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 85.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

#### Hartzell Approved Items:

| <u>Item Type</u>              | <u>Item Number</u> | <u>Description</u>      | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|-------------------------------|--------------------|-------------------------|-----------------|----------------|-----------------|
| SPINNER                       | 835-39P            | SPINNER ASSEMBLY        | 1               | Prop           |                 |
| COUNTERWEIGHT SLUG A-890-12   |                    | PCP:SLUG, COUNTERWEIGHT | 1               | Blade          |                 |
| COUNTERWEIGHT SLUG A-890-6    |                    | PCP:SLUG, COUNTERWEIGHT | 1               | Blade          |                 |
| COUNTERWEIGHT SLUG B-3384-12H |                    | BOLT, 1/4-28, HEX HEAD  | 2               | Blade          |                 |
| COUNTERWEIGHT SLUG B-3384-14H |                    | BOLT, 1/4-28, HEX HEAD  | 2               | Blade          |                 |

### GREAT LAKES

**Model:** 2T-1A-2  
**Trade Name:**  
**Aircraft T.C./STC:** Experimental  
**Propeller Model:** HC-A3MVF-7  
**Propeller T.C.:** P6EA  
**Blade Model(s):** MV10133AN-11  
**Prop Diameter:** 89.6"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** -13.0 +-0.5  
**Low Pitch Angle:** NA  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 539      **Rev.:** -      **DM Date:** 05/16/1998

**Modifier:**  
**Engine Model:** 250-B17C  
**Power:** 420 HP @ 2030 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 85.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

#### Hartzell Approved Items:

| <u>Item Type</u>              | <u>Item Number</u> | <u>Description</u>      | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|-------------------------------|--------------------|-------------------------|-----------------|----------------|-----------------|
| BLADE                         | MV10133AN-11       | IDS ITEM, BLADE         | 3               | Prop           |                 |
| SPINNER                       | 835-39P            | SPINNER ASSEMBLY        | 1               | Prop           |                 |
| COUNTERWEIGHT SLUG A-890-12   |                    | PCP:SLUG, COUNTERWEIGHT | 1               | Blade          |                 |
| COUNTERWEIGHT SLUG A-890-6    |                    | PCP:SLUG, COUNTERWEIGHT | 1               | Blade          |                 |
| COUNTERWEIGHT SLUG B-3384-12H |                    | BOLT, 1/4-28, HEX HEAD  | 2               | Blade          |                 |
| COUNTERWEIGHT SLUG B-3384-14H |                    | BOLT, 1/4-28, HEX HEAD  | 2               | Blade          |                 |

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### GRIFFON AEROSPACE

**Model:**

**Trade Name:** LIONHEART

**Aircraft T.C./STC:** Experimental

**Propeller Model:** HC-B3R30-4

**Propeller T.C.:** P28EA

**Blade Model(s):** R10152-5.5  
R10152N-5.5

**Prop Diameter:** 95.5" NO CUT OFF

**Prop Setup:**

**Ref. Radius:** 30

**Reverse Angle:** NA

**Low Pitch Angle:** 15.0 +-0.2

**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**IDS No.:** 1643

**Rev.:** 2

**IC Date:** 07/07/2015

**Modifier:**

**Engine Model:** R985

**Power:** 450 HP @ 2300 RPM

**Placard/Restr:**

**Notes:**

**Startlock Angle:** NA

**Feather/High Angle:** 38.0 +-2.0

**Cwt Angle:** Positive

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type     | Item Number   | Description               | Quantity | Qty Per | Comments                 |
|---------------|---------------|---------------------------|----------|---------|--------------------------|
| PROPELLER     | B3300051      | HC-B3R30-4/R10152N-5.5    | 1        | A/C     |                          |
| BLADE         | R10152-5.5    | PCP:BLADE UNIT, ALUMINUM  | 3        | Prop    | REPLACED BY R10152N-5.5  |
| BLADE         | R10152N-5.5   | PCP:BLADE UNIT, ALUMINUM  | 3        | Prop    |                          |
| SPINNER       | 836-32PR      | SPINNER ASSEMBLY          | 1        | A/C     |                          |
| MTG BOLT/STUD | B-1894        | PCP: NUT,SHAFT, 30 SPLINE | 1        | Prop    |                          |
| OVERHAUL KIT  | HC-B3R30-4-OH | O/H KIT                   | 1        | Prop    | For aftermarket use only |

### GROB

**Model:** G-115-C2

**Trade Name:**

**Aircraft T.C./STC:** A57EU

**Propeller Model:** HC-F2YR-1F

**Propeller T.C.:** P27EA

**Blade Model(s):** F7666A-3R

**Prop Diameter:** 73"

**Prop Setup:**

**Ref. Radius:** 30

**Reverse Angle:** NA

**Low Pitch Angle:** 13.0 +-0.2

**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**IDS No.:** 1282

**Rev.:** 1

**IC Date:** 07/07/2015

**Modifier:**

**Engine Model:** O-360-A1F6

**Power:** 180 HP @ 2700 RPM

**Placard/Restr:**

**Notes:**

**Startlock Angle:** NA

**Feather/High Angle:** 32.0 +-1.0

**Cwt Angle:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type     | Item Number   | Description               | Quantity | Qty Per | Comments                 |
|---------------|---------------|---------------------------|----------|---------|--------------------------|
| PROPELLER     | F2R00041      | HC-F2YR-1F/F7666A-3R/SM14 | 1        | A/C     |                          |
| BLADE         | F7666A-3R     | PCP:BLADE UNIT, ALUMINUM  | 2        | Prop    |                          |
| SPINNER       | 835-23P       | SPINNER ASSEMBLY          | 1        | Prop    |                          |
| SPIN MTG KIT  | A-2476-14     | SPINNER - MTG KIT         | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2067        | STUD, MOUNTING, 1/2-20    | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-F2YR-1F-OH | O/H KIT                   | 1        | Prop    | For aftermarket use only |

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GROB

**Model:** G115T  
**Trade Name:**  
**Aircraft T.C./STC:** Unknown  
**Propeller Model:** HC-C2YR-4CF  
**Propeller T.C.:** P-920  
**Blade Model(s):** FC8477A-4\*1  
**Prop Diameter:** 80"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.0 +-0.2  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number | Description               | Quantity | Qty Per | Comments        |
|---------------|-------------|---------------------------|----------|---------|-----------------|
| BLADE         | FC8477A-4*1 | PCP:BLADE UNIT, B-3202H-8 | 2        | Prop    |                 |
| SPINNER       | A-2297      | SPINNER ASSEMBLY          | 1        | Prop    |                 |
| SPINNER       | A-2297-P    | SPINNER ASSEMBLY          | 1        | Prop    |                 |
| SPIN MTG KIT  | A-2476-8    | SPINNER - MTG KIT         | 1        | Prop    |                 |
| COUNTERWEIGHT | B-3202H-8   | PCP:COUNTERWEIGHT         | 1        | Blade   | Blade Component |
| MTG BOLT/STUD | A-2067      | STUD, MOUNTING, 1/2-20    | 6        | Prop    |                 |

**IDS No.:** 1280      **Rev.:** -      **DM Date:** 12/23/2003

**Modifier:**  
**Engine Model:** AEIO-540-D4A5  
**Power:** 260 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 32.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

GROB

**Model:** G115TA / G120A  
**Trade Name:**  
**Aircraft T.C./STC:** A57EU/A49CE  
**Propeller Model:** HC-C3YR-4BF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** FC7663R  
**Prop Diameter:** 78"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.4 +-0.2  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number    | Description              | Quantity | Qty Per | Comments                 |
|---------------|----------------|--------------------------|----------|---------|--------------------------|
| PROPELLER     | C3R00230       | HC-C3YR-4BF/FC7663R/SM9  | 0        |         |                          |
| PROPELLER     | C3R00230KD     | HC-C3YR-4BF/FC7663R/SM9  | 0        |         |                          |
| BLADE         | FC7663R        | PCP:BLADE UNIT, ALUMINUM | 3        | Prop    |                          |
| SPINNER       | D-5205         | SPINNER ASSEMBLY         | 1        | Prop    |                          |
| SPINNER       | D-5205-P       | SPINNER ASSEMBLY         | 1        | Prop    |                          |
| SPIN MTG KIT  | A-2476-9       | SPINNER - MTG KIT        | 1        | Prop    |                          |
| COUNTERWEIGHT | B-3202H-2      | PCP:COUNTERWEIGHT        | 1        | Blade   | Blade Component          |
| MTG BOLT/STUD | A-2067         | STUD, MOUNTING, 1/2-20   | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-C3YR-4BF-OH | O/H KIT                  | 1        | Prop    | For aftermarket use only |

**IDS No.:** 1155      **Rev.:** 1      **IC Date:** 07/15/2015

**Modifier:**  
**Engine Model:** AEIO-540-D4A5  
**Power:** 260 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 32.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

# HARTZELL

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GROB

IDS No.: 1849 Rev.: 1 IC Date: 07/16/2015

Model: G120A

Modifier:

Trade Name:

Engine Model: AEIO-540-D4D5

Aircraft T.C./STC: A49CE

Power: 260 HP @ 2700 RPM

Propeller Model: HC-C3YR-1RF

Placard/Restr: Aerobatic Category: Power-on spins, power-on tailslides, and snap (flick) rolls are prohibited.

Propeller T.C.: P25EA

Notes:

Blade Model(s): F7663R

Prop Diameter: 78"

### Prop Setup:

Ref. Radius: 30

Startlock Angle: NA

Reverse Angle: NA

Feather/High Angle: 32.0 +-1.0

Low Pitch Angle: 13.4 +-0.2

Cwt Angle:

Stud Protrusion

### Non-HPI Items:

Non-HPI Spinner:

Non-HPI Governor:

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>           | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|------------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | C3R00062           | HC-C3YR-1RF/F7663R/SM35      | 1               | A/C            |                          |
| PROPELLER        | C3R00062KD         | HC-C3YR-1RF/F7663R/SM35      | 1               | A/C            |                          |
| BLADE            | F7663R             | PCP:BLADE UNIT, ALUM [1,1,1] | 3               | Prop           |                          |
| SPINNER          | C-3570             | SPINNER ASSEMBLY             | 1               | Prop           |                          |
| SPINNER          | C-3570-P           | SPINNER ASSEMBLY             | 1               | Prop           |                          |
| GOVERNOR         | E2-1               | GOVERNOR ASSEMBLY, E-2-( )   | 1               | A/C            |                          |
| SPIN MTG KIT     | A-2476-35          | SPINNER - MTG KIT            | 1               | Prop           |                          |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20       | 6               | Prop           |                          |
| OVERHAUL KIT     | HC-C3YR-1RF-OH     | O/H KIT                      | 1               | Prop           | For aftermarket use only |

# HARTZELL

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### GROB/E-SYSTEMS

**Model:** G520  
**Trade Name:** EGRETT  
**Aircraft T.C./STC:** A63EU  
**Propeller Model:** HC-E4P-5  
**Propeller T.C.:** P10NE

**IDS No.:** 540      **Rev.:** 3      **IC Date:** 01/27/2020

**Modifier:**  
**Engine Model:** TPE331-14F-801L  
**Power:** 750 HP @ 1540 RPM

**Placard/Restr:** Stabilized ground operation is prohibited below 62% (955) RPM. Do not exceed 1450 RPM on the ground unless aircraft is headed into the wind. Do not select maximum reverse at speeds above 50 KIAS. The aircraft weight limits are minimum gross weight of 3000 Kg. (6615 lbs.) and maximum gross weight of 4990 Kg. (11000 lbs.)

**Blade Model(s):** E11990K  
**Prop Diameter:** 120" NO CUT OFF

**Notes:** Use Aeroshell 22 grease per Manual 202A

#### Prop Setup:

**Ref. Radius:** 42  
**Reverse Angle:** -10.0 +-0.5  
**Low Pitch Angle:**  
**Stud Protrusion**

**Startlock Angle:** -1.5 +-0.1

**Feather/High Angle:** 81.5 +-0.1

**Cwt Angle:**

#### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:**

#### Hartzell Approved Items:

| <u>Item Type</u>              | <u>Item Number</u> | <u>Description</u>                | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>                           |
|-------------------------------|--------------------|-----------------------------------|-----------------|----------------|---|
| BLADE                         | E11990K            | PCP:BLADE ASSY, COMPOSITE         | 4               | Prop           |   |
| SPINNER                       | D-5362             | SPINNER ASSEMBLY, COMPOSITE       | 1               | Prop           |   |
| COUNTERWEIGHT                 | C-706              | PCP:COUNTERWEIGHT                 | 1               | Blade          |   |
| COUNTERWEIGHT SLUG A-745-4    |                    | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          |   |
| COUNTERWEIGHT SLUG A-890-13   |                    | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          |   |
| COUNTERWEIGHT SLUG B-3384-9H  |                    | BOLT, 1/4-28, HEX HEAD            | 2               | Blade          |   |
| COUNTERWEIGHT SLUG B-3386-28H |                    | BOLT, 3/8-24, HEX HEAD            | 2               | Blade          |   |
| DE-ICER                       | 4H2839-1           | DE-ICE BOOT                       | 1               | Blade          | Blade Component, Supersedes 7931 4E2839-1 |
| DE-ICER                       | 7931-4E2839-1      | PROP DE-ICER                      | 1               | Blade          | Blade Component                           |
| DE-ICE KIT PR                 | 7931-67-595-1      | DE-ICE KIT (ONE PROP)             | 1               | Prop           |   |
| MTG BOLT/STUD                 | B-3347             | BOLT, MOUNTING, 9/16-18, 12 POINT | 8               | Prop           |   |

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### GROB/E-SYSTEMS

**Model:** G520  
**Trade Name:** EGRETT  
**Aircraft T.C./STC:** A63EU  
**Propeller Model:** HC-E4P-5E  
**Propeller T.C.:** P10NE

**IDS No.:** 1446      **Rev.:** 3      **IC Date:** 01/27/2020

**Modifier:**  
**Engine Model:** TPE331-14F-801L  
**Power:** 750 HP @ 1540 RPM

**Placard/Restr:** Stabilized ground operation is prohibited below 62% (955) RPM. Do not exceed 1450 RPM on the ground unless aircraft is headed into the wind. Do not select maximum reverse at speeds above 50 KIAS. The aircraft weight limits are minimum gross weight of 3000 Kg. (6615 lbs.) and maximum gross weight of 4990 Kg. (11000 lbs.)

**Blade Model(s):** E11990K  
**Prop Diameter:** 120" NO CUT OFF

**Notes:** Use Aeroshell 22 grease per Manual 202A

#### Prop Setup:

**Ref. Radius:** 42  
**Reverse Angle:** -10.0 +-0.5  
**Low Pitch Angle:**  
**Stud Protrusion**

**Startlock Angle:** -1.5 +-0.1  
**Feather/High Angle:** 81.5 +-0.1  
**Cwt Angle:**

#### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:**

#### Hartzell Approved Items:

| <u>Item Type</u>              | <u>Item Number</u> | <u>Description</u>                | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>                           |
|-------------------------------|--------------------|-----------------------------------|-----------------|----------------|---|
| PROPELLER                     | E4P00216           | HC-E4P-5E/E11990K                 | 1               | A/C            |   |
| PROPELLER                     | E4P00216S          | HC-E4P-5E/E11990K/D-5362          | 1               | A/C            |   |
| BLADE                         | E11990K            | PCP:BLADE ASSY, COMPOSITE         | 4               | Prop           |   |
| SPINNER                       | D-5362             | SPINNER ASSEMBLY, COMPOSITE       | 1               | Prop           |   |
| SPIN MTG KIT                  | A-2070-7           | SCREW, 1/4-28, BUTTON HEAD        | 8               | Prop           |   |
| COUNTERWEIGHT                 | C-706              | PCP:COUNTERWEIGHT                 | 1               | Blade          |   |
| COUNTERWEIGHT SLUG A-745-4    |                    | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          |   |
| COUNTERWEIGHT SLUG A-890-13   |                    | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          |   |
| COUNTERWEIGHT SLUG B-3384-9H  |                    | BOLT, 1/4-28, HEX HEAD            | 2               | Blade          |   |
| COUNTERWEIGHT SLUG B-3386-28H |                    | BOLT, 3/8-24, HEX HEAD            | 2               | Blade          |   |
| DE-ICER                       | 4H2839-1           | DE-ICE BOOT                       | 1               | Blade          | Blade Component, Supersedes 7931-4E2839-1 |
| DE-ICER                       | 7931-4E2839-1      | PROP DE-ICER                      | 1               | Blade          | Blade Component                           |
| DE-ICE KIT PR                 | 7931-67-595-1      | DE-ICE KIT (ONE PROP)             | 1               | Prop           |   |
| MTG BOLT/STUD                 | B-3347             | BOLT, MOUNTING, 9/16-18, 12 POINT | 8               | Prop           |   |
| OVERHAUL KIT                  | HC-E4P-5E-OH       | O/H KIT                           | 1               | Prop           | For aftermarket use only                  |



# HARTZELL

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IDS No.: 542      Rev.: 2      IC Date: 01/27/2020

**Model:** S-2  
**Trade Name:** TRACKER  
**Aircraft T.C./STC:** SA4837NM  
**Propeller Model:** HC-B5MP-5  
**Propeller T.C.:** P44GL

**Modifier:** MARSH AVIATION  
**Engine Model:** TPE331-14A-801Z  
**Power:** 1250 HP @ 1540 RPM  
**Placard/Restr:** A. Stabilized ground operation below 58% (893) RPM is prohibited. B. Stabilized ground operation between 68% (1047) RPM and 81% (1247) RPM is prohibited. Recommendation: Static idle only below 68% (1047) RPM. Perform all taxi and ground maneuvering above 81% (1247) RPM.

**Blade Model(s):** M11276NS  
M11276NSK  
**Prop Diameter:** 115.2" TO 114.7"

**Notes:** The aircraft minimum gross limit is 13000. Refer to Manual 139 for Airworthiness Limitations.

**Prop Setup:**

**Ref. Radius:** 42  
**Reverse Angle:** -5.5 +-0.5  
**Low Pitch Angle:** NA

**Startlock Angle:** -2.5 +-0.1  
**Feather/High Angle:** 83.0 +-0.5  
**Cwt Angle:** 6.5 +-1.0

**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u>               | <u>Item Number</u> | <u>Description</u>             | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|--------------------------------|--------------------|--------------------------------|-----------------|----------------|--------------------------|
| BLADE                          | M11276NS           | PCP:BLADE UNIT, ALUMINUM       | 5               | Prop           |                          |
| BLADE                          | M11276NSK          | IDS ITEM, BLADE, 4E2595-7 BOOT | 5               | Prop           |                          |
| SPINNER                        | D-1689             | IDS Item                       | 1               | Prop           |                          |
| COUNTERWEIGHT SLUG B-3343      |                    | PCP:SLUG, COUNTERWEIGHT        | 1               | Blade          |                          |
| COUNTERWEIGHT SLUG B-3386-14H  |                    | BOLT,3/8-24,HEX HEAD           | 2               | Blade          |                          |
| COUNTERWEIGHT SLUG B-3834-0632 |                    | WASHER                         | 2               | Blade          |                          |
| DE-ICER                        | 4H2595-7           | DE-ICE BOOT                    | 1               | Blade          | Supersedes 7931-4E2595-7 |
| MTG BOLT/STUD                  | B-3339-1           | BOLT,MOUNTING,9/16-18,12 POINT | 8               | Prop           |                          |

# HARTZELL

GRUMMAN

**Model:** S-2  
**Trade Name:** TURBO FIRECAT  
**Aircraft T.C./STC:** H019-DGA (France)  
**Propeller Model:** HC-B5MA-3B  
**Propeller T.C.:** P44GL

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**IDS No.:** 541      **Rev.:** 3      **IC Date:** 11/16/2021

**Modifier:** CONAIR  
**Engine Model:** PT6A-67AF  
**Power:** 1424 HP @ 1700 RPM  
**Placard/Restr:** A) Stabilized ground operation is prohibited between 400 and 900 RPM and between 1050 and 1200 RPM. B) Stabilized ground operation is prohibited above 1600 RPM except when the aircraft is headed into the wind. For downwind takeoffs advance above 1600 RPM only after brake release. The blades are shot peened between blade stations 7.0 and 30.0 on both face and camber sides.

**Blade Model(s):** M11296NS  
M11296S  
**Prop Diameter:** 115.2" TO 114.7"

**Notes:**

**Prop Setup:**

**Ref. Radius:** 42  
**Reverse Angle:** -10.0 +-0.5  
**Low Pitch Angle:** 17.6 +-0.1  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 83.1 +-0.5  
**Cwt Angle:** 2.0 +-1.0

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u>   | <u>Item Number</u> | <u>Description</u>                | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|--------------------|--------------------|-----------------------------------|-----------------|----------------|--------------------------|
| PROPELLER          | B5A10170           | HC-B5MA-3B/M11296NS               | 2               | A/C            |                          |
| PROPELLER          | B5A10170KD         | HC-B5MA-3B/M11296NS               | 2               | A/C            |                          |
| BLADE              | M11296NS           | PCP:BLADE UNIT, ALUMINUM          | 5               | Prop           |                          |
| BLADE              | M11296S            | BLADE UNIT, ALUMINUM              | 5               | Prop           |                          |
| SPINNER            | D-5574-P           | SPINNER ASSEMBLY                  | 1               | Prop           |                          |
| SPIN MTG KIT       | B-3384-5H          | BOLT, 1/4-28, HEX HEAD            | 10              | Prop           |                          |
| SPIN MTG KIT       | B-3808-4           | NUT, HEX, SELF-LOCKING            | 10              | Prop           |                          |
| SPIN MTG KIT       | B-3851-0463        | WASHER                            | 10              | Prop           |                          |
| COUNTERWEIGHT SLUG | B-3386-14H         | BOLT, 3/8-24, HEX HEAD            | 2               | Blade          |                          |
| COUNTERWEIGHT SLUG | B-3663-4           | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          |                          |
| COUNTERWEIGHT SLUG | B-3834-0632        | WASHER                            | 2               | Blade          |                          |
| MTG BOLT/STUD      | B-3347             | BOLT, MOUNTING, 9/16-18, 12 POINT | 12              | Prop           |                          |
| OVERHAUL KIT       | HC-B5MA-3B-OH      | O/H KIT                           | 1               | Prop           | For aftermarket use only |

# HARTZELL

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**GRUMMAN**

IDS No.: 1508 Rev.: 3 IC Date: 01/27/2020

**Model:** S-2F3AT  
**Trade Name:** TRACKER  
**Aircraft T.C./STC:** T00009LA  
**Propeller Model:** HC-B5MA-5H  
**Propeller T.C.:** P44GL

**Modifier:** MARSH AVIATION  
**Engine Model:** TPE331-14GR  
**Power:** 1650 HP @ 1552 RPM  
**Placard/Restr:** The ground idle speed must be at or above 65% (1009 RPM).

**Blade Model(s):** M11692NS  
M11692NSK

**Notes:**

**Prop Diameter:** 118.7"

**Prop Setup:**

**Ref. Radius:** 42  
**Reverse Angle:** -11.5 +-0.5  
**Low Pitch Angle:** NA

**Startlock Angle:** -1.8 +-0.1  
**Feather/High Angle:** 80.0 +-0.5  
**Cwt Angle:** 2.5 +-1.5

**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type          | Item Number   | Description                    | Quantity | Qty Per | Comments                 |
|--------------------|---------------|--------------------------------|----------|---------|--------------------------|
| PROPELLER          | B5A10231      | HC-B5MA-5H/M11692NS            | 2        | A/C     |                          |
| PROPELLER          | B5A10231KD    | HC-B5MA-5H/M11692NS            | 2        | A/C     |                          |
| PROPELLER          | B5A10231S     | HC-B5MA-5H/M11692NS/E-5760-P   | 2        | A/C     |                          |
| PROPELLER          | B5A10231SKD   | HC-B5MA-5H/M11692NS/E-5760-P   | 2        | A/C     |                          |
| PROPELLER          | B5A10232      | HC-B5MA-5H/M11692NSK           | 2        | A/C     |                          |
| PROPELLER          | B5A10232KD    | HC-B5MA-5H/M11692NSK           | 2        | A/C     |                          |
| PROPELLER          | B5A10232S     | HC-B5MA-5H/M11692NSK/SPIN/DEI  | 2        | A/C     |                          |
| PROPELLER          | B5A10232SKD   | HC-B5MA-5H/M11692NSK/SPIN/DEI  | 2        | A/C     |                          |
| BLADE              | M11692NS      | PCP:BLADE UNIT, ALUMINUM       | 5        | Prop    |                          |
| BLADE              | M11692NSK     | PCP:BLADE UNIT, ALUMINUM       | 5        | Prop    |                          |
| SPINNER            | E-5760-P      | SPINNER ASSEMBLY               | 1        | Prop    |                          |
| SPIN MTG KIT       | B-3384-12H    | BOLT, 1/4-28, HEX HEAD         | 5        | Prop    |                          |
| SPIN MTG KIT       | B-3384-17H    | BOLT, 1/4-28, HEX HEAD         | 5        | Prop    |                          |
| SPIN MTG KIT       | B-3851-0463   | WASHER                         | 10       | Prop    |                          |
| SP MT KIT DE-ICE   | B-3384-16H    | BOLT, 1/4-28, HEX HEAD         | 5        | Prop    |                          |
| SP MT KIT DE-ICE   | B-3384-21H    | BOLT, 1/4-28, HEX HEAD         | 5        | Prop    |                          |
| SP MT KIT DE-ICE   | B-3808-4      | NUT,HEX,SELF-LOCKING           | 10       | Prop    |                          |
| SP MT KIT DE-ICE   | B-3851-0463   | WASHER                         | 10       | Prop    |                          |
| COUNTERWEIGHT SLUG | B-3386-14H    | BOLT,3/8-24,HEX HEAD           | 2        | Blade   |                          |
| COUNTERWEIGHT SLUG | B-3834-0632   | WASHER                         | 2        | Blade   |                          |
| COUNTERWEIGHT SLUG | B-7222        | PCP:SLUG, COUNTERWEIGHT        | 1        | Blade   |                          |
| DE-ICER            | 4H3055-1      | DE-ICE BOOT                    | 1        | Blade   | Supersedes 7931-4E3055-1 |
| DE-ICE KIT PR      | 7931-67-939-1 | DE-ICE KIT (ONE PROP)          | 1        | Prop    |                          |
| MTG BOLT/STUD      | B-3347        | BOLT,MOUNTING,9/16-18,12 POINT | 12       | Prop    |                          |
| OVERHAUL KIT       | HC-B5MA-5H-OH | O/H KIT                        | 1        | Prop    | For aftermarket use only |

# HARTZELL

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**GRUMMAN**

**IDS No.:** 1283      **Rev.:** 3      **IC Date:** 01/27/2020

**Model:** S-2E  
**Trade Name:** TRACKER  
**Aircraft T.C./STC:** Experimental  
**Propeller Model:** HC-E5B-5  
**Propeller T.C.:** P20NE  
**Blade Model(s):** E12902K  
**Prop Diameter:**

**Modifier:** MARSH AVIATION  
**Engine Model:** TPE331-15AW  
**Power:** 1645 HP @ 1390 RPM  
**Placard/Restr:**  
**Notes:** Reference Manual 147 for Airworthiness Limitations.

**Prop Setup:**

**Ref. Radius:** 54  
**Reverse Angle:** -8.0 +-0.5  
**Low Pitch Angle:** NA  
**Stud Protrusion**

**Startlock Angle:** -4.0 +-0.2  
**Feather/High Angle:** 78.7 +-0.5  
**Cwt Angle:** NA

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u>              | <u>Item Number</u> | <u>Description</u>                | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>  |
|-------------------------------|--------------------|-----------------------------------|-----------------|----------------|--|
| PROPELLER                     | E5B00020           | HC-E5B-5/E12902K                  | 2               | A/C            |  |
| PROPELLER                     | E5B00020KD         | HC-E5B-5/E12902K                  | 2               | A/C            |  |
| BLADE                         | E12902K            | PCP:BLADE ASSY, COMPOSITE         | 5               | Prop           |  |
| SPINNER                       | D-5597-1           | SPINNER ASSEMBLY                  | 1               | Prop           |  |
| SPIN MTG KIT                  | A-2070-10          | SCREW, 1/4-28, BUTTON HEAD        | 10              | Prop           |  |
| COUNTERWEIGHT                 | C-706-4            | PCP:COUNTERWEIGHT                 | 1               | Blade          |  |
| COUNTERWEIGHT SLUG A-890-6    |                    | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          |  |
| COUNTERWEIGHT SLUG B-2831     |                    | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          |  |
| COUNTERWEIGHT SLUG B-3384-13H |                    | BOLT, 1/4-28, HEX HEAD            | 2               | Blade          |  |
| COUNTERWEIGHT SLUG B-3386-23H |                    | BOLT, 3/8-24, HEX HEAD            | 2               | Blade          |  |
| DE-ICER                       | 5H2429-1           | DE-ICE BOOT                       | 1               | Blade          | Supersedes 7931-5E2429-1   |
| DE-ICE KIT PR                 | 7931-67-740-1      | DE-ICE KIT (ONE PROP)             | 1               | Prop           |  |
| MTG BOLT/STUD                 | B-3347             | BOLT, MOUNTING, 9/16-18, 12 POINT | 12              | Prop           |  |
| OVERHAUL KIT                  | HC-E5B-5-OH        | O/H KIT                           | 1               | Prop           | For aftermarket use only   |
| OVERHAUL KIT                  | HC-E5B-5-OH*1      | O/H KIT                           | 1               | Prop           | For aftermarket use only (SAME AS HC-E5B-5-OH + (3) B-3819 SCREWS) |

# HARTZELL

## APPLICATION GUIDE 159

GRUMMAN

**Model:** G44  
**Trade Name:** WIDGEON  
**Aircraft T.C./STC:** FIELD APPROVAL  
**Propeller Model:** PHC-C3YF-2UF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** FC8468A-6R  
**Prop Diameter:** 80.0 TO 78.0

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 11.5 +-0.1  
**Stud Protrusion** 1.450 +-0.030

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 2668      **Rev.:** -      **DM Date:** 01/10/2007

**Modifier:**  
**Engine Model:** IO-520-E  
**Power:** 285 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** 17.0 +-1.5  
**Feather/High Angle:** 81.0 +-0.5  
**Cwt Angle:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>       | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|--------------------------|-----------------|----------------|-----------------|
| BLADE            | FC8468A-6R         | PCP:BLADE UNIT, ALUMINUM | 3               | Prop           |                 |
| COUNTERWEIGHT    | B-3202H-2          | PCP:COUNTERWEIGHT        | 1               | Blade          |                 |
| MTG BOLT/STUD    | A-2429-4           | STUD, MOUNTING, 1/2-20   | 6               | Prop           |                 |

GRUMMAN

**Model:** G44, G44A  
**Trade Name:** WIDGEON  
**Aircraft T.C./STC:** STC-SA4-64  
**Propeller Model:** HC-A2X20-2  
**Propeller T.C.:** P908  
**Blade Model(s):**  
**Prop Diameter:**

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 18.0 +-0.2  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 2381      **Rev.:** -      **DM Date:** 12/18/2003

**Modifier:** A.C.E. AVIATION  
**Engine Model:** GO-435-C2B  
**Power:** HP @ RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** 23.5 +-1.5  
**Feather/High Angle:** 89.0 +-0.5  
**Cwt Angle:**

**Non-HPI Governor:**

### Hartzell Approved Items:

# HARTZELL

## APPLICATION GUIDE 159

GRUMMAN

**Model:** G44, G44A  
**Trade Name:** WIDGEON  
**Aircraft T.C./STC:** STC-SA4-64  
**Propeller Model:** HC-A2V20-2  
**Propeller T.C.:** P24EA  
**Blade Model(s):** V9333N-3  
**Prop Diameter:**

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 18.0 +-0.2  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u> | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|--------------------|-----------------|----------------|-----------------|
| BLADE            | V9333N-3           | BLADE              | 2               | Prop           |                 |

**IDS No.:** 2383      **Rev.:** -      **DM Date:** 12/01/2003

**Modifier:** A.C.E. AVIATION  
**Engine Model:** GO-435-C2B  
**Power:** HP @ RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** 23.5 +-1.5  
**Feather/High Angle:** 89.0 +-0.5  
**Cwt Angle:**

**Non-HPI Governor:**

GRUMMAN

**Model:** G44, G44A  
**Trade Name:** WIDGEON  
**Aircraft T.C./STC:** STC-SA4-64  
**Propeller Model:** HC-83X20-2A  
**Propeller T.C.:** P913  
**Blade Model(s):** 8433  
**Prop Diameter:** 84"

### Prop Setup:

**Ref. Radius:**  
**Reverse Angle:**  
**Low Pitch Angle:**  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>         | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|----------------------------|-----------------|----------------|-----------------|
| BLADE            | 8433               | BLADE                      | 3               | Prop           |                 |
| SPINNER          | 835-10S            | SPINNER ASSEMBLY           | 1               | Prop           |                 |
| GOVERNOR         | B2                 | GOVERNOR ASSEMBLY, B-2-( ) | 1               | Prop           |                 |

**IDS No.:** 2380      **Rev.:** -      **DM Date:** 12/18/2003

**Modifier:** VIKING AIR LTD.  
**Engine Model:** GO-435-C2B  
**Power:** 260 HP @ 3400 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:**  
**Feather/High Angle:**  
**Cwt Angle:**

**Non-HPI Governor:**

# HARTZELL

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GRUMMAN

**Model:** G44, G44A  
**Trade Name:** WIDGEON  
**Aircraft T.C./STC:** STC-SA4-64  
**Propeller Model:** HC-A3X20-2  
**Propeller T.C.:** P913  
**Blade Model(s):** 8433  
**Prop Diameter:**

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 14.0 +-0.2  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u> | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|--------------------|-----------------|----------------|-----------------|
| BLADE            | 8433               | BLADE              | 3               | Prop           |                 |

**IDS No.:** 2382      **Rev.:** -      **DM Date:** 12/01/2003

**Modifier:** A.C.E. AVIATION  
**Engine Model:** GO-435-C2B  
**Power:** HP @ RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** 21.3 +-1.5  
**Feather/High Angle:** 82.5 +-0.5  
**Cwt Angle:**

**Non-HPI Governor:**

GRUMMAN

**Model:** G44, G44A  
**Trade Name:** WIDGEON  
**Aircraft T.C./STC:** STC-SA4-64  
**Propeller Model:** HC-A3V20-2  
**Propeller T.C.:** P6EA  
**Blade Model(s):** V8433  
V8433N

**Prop Diameter:**

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 14.0 +-0.2  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u> | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|--------------------|-----------------|----------------|-----------------|
| BLADE            | V8433              | BLADE              | 3               | Prop           |                 |
| BLADE            | V8433N             | BLADE              | 3               | Prop           |                 |

**IDS No.:** 2384      **Rev.:** -      **DM Date:** 12/01/2003

**Modifier:** A.C.E. AVIATION  
**Engine Model:** GO-435-C2B  
**Power:** HP @ RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** 21.3 +-1.5  
**Feather/High Angle:** 82.5 +-0.5  
**Cwt Angle:**

**Non-HPI Governor:**

# HARTZELL

## APPLICATION GUIDE 159

GRUMMAN

**Model:** G44, G44A  
**Trade Name:** WIDGEON  
**Aircraft T.C./STC:** STC-SA4-65, -64  
**Propeller Model:** HC-A3X20-2, HC-83X20-2A  
**Propeller T.C.:** P913, P884  
**Blade Model(s):** 8433  
**Prop Diameter:** 84" NO CUT OFF

### Prop Setup:

**Ref. Radius:**  
**Reverse Angle:**  
**Low Pitch Angle:**  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>        | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|---------------------------|-----------------|----------------|-----------------|
| BLADE            | 8433               | BLADE                     | 3               | Prop           |                 |
| SPINNER          | 835-10S            | SPINNER ASSEMBLY          | 1               | Prop           |                 |
| GOVERNOR         | B2                 | GOVERNOR ASSEMBLY, B-2-() | 1               | Prop           |                 |

**IDS No.:** 2385      **Rev.:** -      **DM Date:** 12/18/2003

**Modifier:** VIKING AIR LTD.  
**Engine Model:** GO-480-B1  
**Power:** 270 HP @ 3400 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:**  
**Feather/High Angle:**  
**Cwt Angle:**

**Non-HPI Governor:**

GRUMMAN

**Model:** G44-G44A  
**Trade Name:** WIDGEON  
**Aircraft T.C./STC:** STC-SA4-65, -64  
**Propeller Model:** HC-A3V20-2  
**Propeller T.C.:** P6EA  
**Blade Model(s):** V8433  
V8433N  
**Prop Diameter:** 84" NO CUT OFF

### Prop Setup:

**Ref. Radius:**  
**Reverse Angle:**  
**Low Pitch Angle:**  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>        | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|---------------------------|-----------------|----------------|-----------------|
| BLADE            | V8433              | BLADE                     | 3               | Prop           |                 |
| BLADE            | V8433N             | BLADE                     | 3               | Prop           |                 |
| SPINNER          | 835-10S            | SPINNER ASSEMBLY          | 1               | Prop           |                 |
| GOVERNOR         | B2                 | GOVERNOR ASSEMBLY, B-2-() | 1               | Prop           |                 |

**IDS No.:** 2386      **Rev.:** -      **DM Date:** 12/18/2003

**Modifier:** VIKING AIR LTD.  
**Engine Model:** GO-480-B1  
**Power:** 270 HP @ 3400 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:**  
**Feather/High Angle:**  
**Cwt Angle:**

**Non-HPI Governor:**



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GRUMMAN

**Model:** G44, G44A  
**Trade Name:** WIDGEON  
**Aircraft T.C./STC:** STC-SA4-111  
**Propeller Model:** HC-A3X20-2, HC-83X20-2A  
**Propeller T.C.:** P913, P884  
**Blade Model(s):** 8433  
**Prop Diameter:** 84"

### Prop Setup:

**Ref. Radius:**  
**Reverse Angle:**  
**Low Pitch Angle:**  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>        | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|---------------------------|-----------------|----------------|-----------------|
| BLADE            | 8433               | BLADE                     | 3               | Prop           |                 |
| SPINNER          | 835-10S            | SPINNER ASSEMBLY          | 1               | Prop           |                 |
| GOVERNOR         | B2                 | GOVERNOR ASSEMBLY, B-2-() | 1               | Prop           |                 |

**IDS No.:** 2378      **Rev.:** -      **DM Date:** 12/18/2003

**Modifier:** VIKING AIR LTD.  
**Engine Model:** GO-480-C1D6  
**Power:** 295 HP @ 3400 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:**  
**Feather/High Angle:**  
**Cwt Angle:**

**Non-HPI Governor:**

GRUMMAN

**Model:** G44, G44A  
**Trade Name:** WIDGEON  
**Aircraft T.C./STC:** STC-SA4-111  
**Propeller Model:** HC-A3V20-2  
**Propeller T.C.:** P6EA  
**Blade Model(s):** V8433  
V8433N  
**Prop Diameter:** 84"

### Prop Setup:

**Ref. Radius:**  
**Reverse Angle:**  
**Low Pitch Angle:**  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>        | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|---------------------------|-----------------|----------------|-----------------|
| BLADE            | V8433              | BLADE                     | 3               | Prop           |                 |
| BLADE            | V8433N             | BLADE                     | 3               | Prop           |                 |
| SPINNER          | 835-10S            | SPINNER ASSEMBLY          | 1               | Prop           |                 |
| GOVERNOR         | B2                 | GOVERNOR ASSEMBLY, B-2-() | 1               | Prop           |                 |

**IDS No.:** 2379      **Rev.:** -      **DM Date:** 12/18/2003

**Modifier:** VIKING AIR LTD.  
**Engine Model:** GO-480-C1D6  
**Power:** 295 HP @ 3400 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:**  
**Feather/High Angle:**  
**Cwt Angle:**

**Non-HPI Governor:**

# HARTZELL

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**GRUMMAN**

**Model:** G44, G44A  
**Trade Name:** WIDGEON  
**Aircraft T.C./STC:** STC-SA835SO  
**Propeller Model:** HC-A3VF-5R  
**Propeller T.C.:** P6EA  
**Blade Model(s):** V9333C-3  
V9333N-3  
**Prop Diameter:** 90"

**Prop Setup:**

**Ref. Radius:**  
**Reverse Angle:**  
**Low Pitch Angle:**  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>        | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|---------------------------|-----------------|----------------|-----------------|
| BLADE            | V9333C-3           | BLADE                     | 3               | Prop           |                 |
| BLADE            | V9333N-3           | BLADE                     | 3               | Prop           |                 |
| SPINNER          | C-3043-7           | IDS Item                  | 1               | Prop           |                 |
| GOVERNOR         | B3                 | GOVERNOR ASSEMBLY, B-3(-) | 1               | Prop           |                 |

**IDS No.:** 2387      **Rev.:** -      **DM Date:** 12/18/2003

**Modifier:** AEROMAR INC.  
**Engine Model:** GO-480-G2D6  
**Power:** 295 HP @ 3400 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:**  
**Feather/High Angle:**  
**Cwt Angle:**

**Non-HPI Governor:**

**GRUMMAN**

**Model:** G44, G44A  
**Trade Name:** WIDGEON  
**Aircraft T.C./STC:** STC-SA2-13  
**Propeller Model:** HC-A2XF-2B  
**Propeller T.C.:** P908  
**Blade Model(s):** 8433  
**Prop Diameter:** 84"

**Prop Setup:**

**Ref. Radius:**  
**Reverse Angle:**  
**Low Pitch Angle:**  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u> | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|--------------------|-----------------|----------------|-----------------|
| BLADE            | 8433               | BLADE              | 2               | Prop           |                 |
| SPINNER          | 835-13             | SPINNER ASSEMBLY   | 1               | Prop           |                 |

**IDS No.:** 2374      **Rev.:** -      **DM Date:** 12/18/2003

**Modifier:** JR McDERMOTT CO.  
**Engine Model:** IO-470-D  
**Power:** 260 HP @ 2625 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:**  
**Feather/High Angle:**  
**Cwt Angle:**

**Non-HPI Governor:**

# HARTZELL

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**GRUMMAN**

**Model:** G44, G44A  
**Trade Name:** WIDGEON  
**Aircraft T.C./STC:** STC-SA2-13  
**Propeller Model:** HC-A2XF-2, HC-82XF-2C  
**Propeller T.C.:** P908(HC-82XF-2);P878  
**Blade Model(s):** 8433  
**Prop Diameter:** 84"

**Prop Setup:**

**Ref. Radius:**  
**Reverse Angle:**  
**Low Pitch Angle:**  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type | Item Number | Description      | Quantity | Qty Per | Comments |
|-----------|-------------|------------------|----------|---------|----------|
| BLADE     | 8433        | BLADE            | 2        | Prop    |          |
| SPINNER   | 835-13      | SPINNER ASSEMBLY | 1        | Prop    |          |

**IDS No.:** 2375      **Rev.:** -      **DM Date:** 12/18/2003

**Modifier:** JR McDERMOTT CO.  
**Engine Model:** O-470-B  
**Power:** 240 HP @ 2600 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:**  
**Feather/High Angle:**  
**Cwt Angle:**

**Non-HPI Governor:**

**GRUMMAN**

**Model:** G44, G44A  
**Trade Name:** WIDGEON  
**Aircraft T.C./STC:** STC-SA2-13  
**Propeller Model:** HC-A2VF-2B  
**Propeller T.C.:** P24EA  
**Blade Model(s):** V8433  
    V8433N  
**Prop Diameter:** 84"

**Prop Setup:**

**Ref. Radius:**  
**Reverse Angle:**  
**Low Pitch Angle:**  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type | Item Number | Description      | Quantity | Qty Per | Comments |
|-----------|-------------|------------------|----------|---------|----------|
| BLADE     | V8433       | BLADE            | 2        | Prop    |          |
| BLADE     | V8433N      | BLADE            | 2        | Prop    |          |
| SPINNER   | 835-13      | SPINNER ASSEMBLY | 1        | Prop    |          |

**IDS No.:** 2376      **Rev.:** -      **DM Date:** 12/18/2003

**Modifier:** JR McDERMOTT CO.  
**Engine Model:** IO-470-D  
**Power:** 260 HP @ 2625 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:**  
**Feather/High Angle:**  
**Cwt Angle:**

**Non-HPI Governor:**

# HARTZELL

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### GRUMMAN

**Model:** G44, G44A  
**Trade Name:** WIDGEON  
**Aircraft T.C./STC:** Unknown  
**Propeller Model:** PHC-A3VF-2B  
**Propeller T.C.:** P6EA  
**Blade Model(s):** V7636  
V7636N  
**Prop Diameter:** 76" TO 74"

#### Prop Setup:

**Ref. Radius:**  
**Reverse Angle:**  
**Low Pitch Angle:**  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

#### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u> | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|--------------------|-----------------|----------------|-----------------|
| BLADE            | V7636              | IDS ITEM           | 3               | Prop           |                 |
| BLADE            | V7636N             | BLADE              | 3               | Prop           |                 |

**IDS No.:** 2389      **Rev.:** -      **DM Date:** 12/18/2003

**Modifier:** G.J. NEWELL  
**Engine Model:** IO-520-E  
**Power:** 300 HP @ 2850 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:**  
**Feather/High Angle:**  
**Cwt Angle:**

**Non-HPI Governor:**

### GRUMMAN (AERO PLANES LLC)

**Model:** G21C, D  
**Trade Name:** GOOSE  
**Aircraft T.C./STC:** 4A24  
**Propeller Model:** not procurable  
**Propeller T.C.:**  
**Blade Model(s):**  
**Prop Diameter:** 93.2" TO 91"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** -23.0 +-0.5  
**Low Pitch Angle:** 17.5 +-0.2  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

#### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u> | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|--------------------|-----------------|----------------|-----------------|
| SPINNER          | 836-25P            | SPINNER ASSEMBLY   | 1               | Prop           |                 |
| SPINNER          | 836-26P            | SPINNER ASSEMBLY   | 1               | Prop           |                 |

**IDS No.:** 566      **Rev.:** 1      **D Date:** 01/07/2011

**Modifier:**  
**Engine Model:** GSO-480-B2D6  
**Power:** 340 HP @ 2182 RPM  
**Placard/Restr:** Avoid continuous operation between 2800 and 3100 engine RPM.  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 85.0 +-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:**

# HARTZELL

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**GRUMMAN (GULFSTREAM AERO.)**

**Model:** G44  
**Trade Name:** WIDGEON  
**Aircraft T.C./STC:** Experimental  
**Propeller Model:** HC-C3YF-2UF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** FC8468-6R\*1  
**Prop Diameter:** 80.0" TO 78.0"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 11.5 +-0.1  
**Stud Protrusion** 1.450 +-0.030

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number | Description                   | Quantity | Qty Per | Comments        |
|---------------|-------------|-------------------------------|----------|---------|-----------------|
| BLADE         | FC8468-6R*1 | PCP:BLADE UNIT, B-3202H-1 CWT | 3        | Prop    |                 |
| SPINNER       | C-4558-2P   | SPINNER ASSEMBLY              | 1        | Prop    |                 |
| SPIN MTG KIT  | A-2476-9    | SPINNER - MTG KIT             | 1        | Prop    |                 |
| COUNTERWEIGHT | B-3202H-1   | PCP:COUNTERWEIGHT             | 1        | Blade   | Blade Component |
| MTG BOLT/STUD | A-2429-4    | STUD, MOUNTING, 1/2-20        | 6        | Prop    |                 |

**IDS No.:** 561      **Rev.:** -      **DM Date:** 03/10/2003

**Modifier:** WILLIAM GRENIER  
**Engine Model:** IO-520-E  
**Power:** 285 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** 17.0 +-1.5  
**Feather/High Angle:** 81.0 +-0.5  
**Cwt Angle:**

**Non-HPI Governor:**

**GRUMMAN (GULFSTREAM AERO.)**

**Model:** G44, G44A  
**Trade Name:** WIDGEON  
**Aircraft T.C./STC:** A734  
**Propeller Model:** HC-12X20-8C, HC-D2X20-8  
**Propeller T.C.:**  
**Blade Model(s):** 8428  
**Prop Diameter:** 84.5" TO 82.5"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.0 +-0.2  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type | Item Number | Description       | Quantity | Qty Per | Comments |
|-----------|-------------|-------------------|----------|---------|----------|
| BLADE     | 8428        | BLADE CONFIG ITEM | 2        | Prop    |          |

**IDS No.:** 2188      **Rev.:** -      **DM Date:** 11/20/2003

**Modifier:**  
**Engine Model:** 6-440-C5  
**Power:** 200 HP @ 2450 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:**  
**Cwt Angle:**

**Non-HPI Governor:**

# HARTZELL

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### GRUMMAN (GULFSTREAM AERO.)

**Model:** G44, G44A  
**Trade Name:** WIDGEON  
**Aircraft T.C./STC:** A734  
**Propeller Model:** HC-12X20-2,-3; -D2X20-3  
**Propeller T.C.:**  
**Blade Model(s):** 8428  
**Prop Diameter:** 84" TO 82.5"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 14.0 +-0.2  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

#### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u> | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|--------------------|-----------------|----------------|-----------------|
| BLADE            | 8428               | BLADE CONFIG ITEM  | 2               | Prop           |                 |

**IDS No.:** 551      **Rev.:** -      **DM Date:** 10/01/1992

**Modifier:**  
**Engine Model:** 6-440-C5  
**Power:** 200 HP @ 2450 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 20.0 +-0.5  
**Cwt Angle:**

**Non-HPI Governor:**

### GRUMMAN (GULFSTREAM AERO.)

**Model:** G44, G44A  
**Trade Name:** WIDGEON  
**Aircraft T.C./STC:** A734  
**Propeller Model:** HC-12X20-2, HC-D2X20-3, HC-12X20-3  
**Propeller T.C.:**  
**Blade Model(s):** 8428  
**Prop Diameter:** 84" TO 82.5"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 14.0 +-0.2  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

#### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u> | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|--------------------|-----------------|----------------|-----------------|
| BLADE            | 8428               | BLADE CONFIG ITEM  | 2               | Prop           |                 |

**IDS No.:** 2189      **Rev.:** -      **DM Date:** 11/20/2003

**Modifier:**  
**Engine Model:** 6-440-C5  
**Power:** 200 HP @ 2450 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 20.0 +-0.5  
**Cwt Angle:**

**Non-HPI Governor:**

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**GRUMMAN (GULFSTREAM AERO.)**

Model: G44, G44A  
 Trade Name: WIDGEON  
 Aircraft T.C./STC: A734  
 Propeller Model: HC-12X20-8C, -D2X20-8  
 Propeller T.C.:  
 Blade Model(s): 8428  
 Prop Diameter: 84.5" TO 82.5"

**Prop Setup:**

Ref. Radius: 30  
 Reverse Angle: NA  
 Low Pitch Angle: 13.0 +-0.2  
 Stud Protrusion

**Non-HPI Items:**

Non-HPI Spinner:

**Hartzell Approved Items:**

| Item Type | Item Number | Description       | Quantity | Qty Per | Comments |
|-----------|-------------|-------------------|----------|---------|----------|
| BLADE     | 8428        | BLADE CONFIG ITEM | 2        | Prop    |          |

IDS No.: 550 Rev.: - DM Date: 10/01/1992

Modifier:  
 Engine Model: 6-440-C5  
 Power: 200 HP @ 2450 RPM  
 Placard/Restr:  
 Notes:

Startlock Angle: NA  
 Feather/High Angle:  
 Cwt Angle:

Non-HPI Governor:

**GRUMMAN (GULFSTREAM AERO.)**

Model: G44, G44A  
 Trade Name: WIDGEON  
 Aircraft T.C./STC: A734  
 Propeller Model: not procurable  
 Propeller T.C.:  
 Blade Model(s):  
 Prop Diameter: 93"

**Prop Setup:**

Ref. Radius: 30  
 Reverse Angle: NA  
 Low Pitch Angle: 17.5 +-0.2  
 Stud Protrusion

**Non-HPI Items:**

Non-HPI Spinner:

**Hartzell Approved Items:**

| Item Type     | Item Number | Description | Quantity | Qty Per | Comments |
|---------------|-------------|-------------|----------|---------|----------|
| COUNTERWEIGHT | B-891-2     | IDS Item    | 1        | Blade   |          |

IDS No.: 545 Rev.: - DM Date: 03/21/2007

Modifier:  
 Engine Model: GO-435-C2, -C2B  
 Power: 240 HP @ 2182 RPM  
 Placard/Restr:  
 Notes:

Startlock Angle: NA  
 Feather/High Angle: 37.5 +-Unknown  
 Cwt Angle: Positive

Non-HPI Governor:

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**GRUMMAN (GULFSTREAM AERO.)**

**Model:** G44, G44A  
**Trade Name:** WIDGEON  
**Aircraft T.C./STC:** A734  
**Propeller Model:** HC-82X20-2, HC-A2X20-2  
**Propeller T.C.:** P24EA  
**Blade Model(s):** 9333C-3  
**Prop Diameter:** 90"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 19.0 +-0.2  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u> | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|--------------------|-----------------|----------------|-----------------|
| BLADE            | 9333C-3            | BLADE              | 2               | Prop           |                 |
| SPINNER          | 835-1S             | IDS Item           | 1               | Prop           |                 |

**IDS No.:** 2180      **Rev.:** -      **DM Date:** 11/20/2003

**Modifier:**  
**Engine Model:** GO-435-C2, -C2B  
**Power:** 240 HP @ 2182 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** 23.5 +-1.5  
**Feather/High Angle:** 89.0 +-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:**

**GRUMMAN (GULFSTREAM AERO.)**

**Model:** G44, G44A  
**Trade Name:** WIDGEON  
**Aircraft T.C./STC:** A734  
**Propeller Model:** HC-82X20-2, HC-A2X20-2  
**Propeller T.C.:** P24EA  
**Blade Model(s):** 9333C-3  
**Prop Diameter:** 90"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 18.0 +-0.2  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>         | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|----------------------------|-----------------|----------------|-----------------|
| BLADE            | 9333C-3            | BLADE                      | 2               | Prop           |                 |
| SPINNER          | 835-1S             | IDS Item                   | 1               | Prop           |                 |
| MTG BOLT/STUD    | A-63B              | PCP: NUT, SHAFT, 20 SPLINE | 1               | Prop           |                 |
| MTG BOLT/STUD    | A-63-B             | NUT,SHAFT,20 SPLINE        | 1               | Prop           |                 |

**IDS No.:** 2182      **Rev.:** -      **DM Date:** 11/20/2003

**Modifier:**  
**Engine Model:** GO-435-C2B  
**Power:** 260 HP @ 2182 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** 23.5 +-1.5  
**Feather/High Angle:** 89.0 +-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:**



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**GRUMMAN (GULFSTREAM AERO.)**

**Model:** G44, G44A  
**Trade Name:** WIDGEON  
**Aircraft T.C./STC:** A734  
**Propeller Model:** HC-82V20-2, HC-A2V20-2  
**Propeller T.C.:** P24EA  
**Blade Model(s):** V9333C-3  
V9333N-3  
**Prop Diameter:** 90"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 18.0 +-0.2  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number | Description                | Quantity | Qty Per | Comments |
|---------------|-------------|----------------------------|----------|---------|----------|
| BLADE         | V9333C-3    | BLADE                      | 2        | Prop    |          |
| BLADE         | V9333N-3    | BLADE                      | 2        | Prop    |          |
| SPINNER       | 835-1S      | IDS Item                   | 1        | Prop    |          |
| MTG BOLT/STUD | A-63B       | PCP: NUT, SHAFT, 20 SPLINE | 1        | Prop    |          |
| MTG BOLT/STUD | A-63-B      | NUT,SHAFT,20 SPLINE        | 1        | Prop    |          |

**IDS No.:** 2183      **Rev.:** -      **DM Date:** 11/20/2003

**Modifier:**  
**Engine Model:** GO-435-C2B  
**Power:** 260 HP @ 2182 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** 23.5 +-1.5  
**Feather/High Angle:** 89.0 +-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:**

**GRUMMAN (GULFSTREAM AERO.)**

**Model:** G44, G44A  
**Trade Name:** WIDGEON  
**Aircraft T.C./STC:** A734  
**Propeller Model:** HC-82V20-2, HC-A2V20-2  
**Propeller T.C.:** P24EA  
**Blade Model(s):** V9333C-3  
V9333N-3  
**Prop Diameter:** 90"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 19.0 +-0.2  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type | Item Number | Description | Quantity | Qty Per | Comments |
|-----------|-------------|-------------|----------|---------|----------|
| BLADE     | V9333C-3    | BLADE       | 2        | Prop    |          |
| BLADE     | V9333N-3    | BLADE       | 2        | Prop    |          |
| SPINNER   | 835-1S      | IDS Item    | 1        | Prop    |          |

**IDS No.:** 2181      **Rev.:** -      **DM Date:** 11/20/2003

**Modifier:**  
**Engine Model:** GO-435-C2, -C2B  
**Power:** 240 HP @ 2182 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** 23.5 +-1.5  
**Feather/High Angle:** 89.0 +-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:**

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**GRUMMAN (GULFSTREAM AERO.)**

IDS No.: 546 Rev.: 1 D Date: 01/07/2011

Model: G44, G44A  
 Trade Name: WIDGEON  
 Aircraft T.C./STC: A734  
 Propeller Model: HC-A2MV20-2  
 Propeller T.C.: P24EA  
 Blade Model(s): MV9333N-3  
 Prop Diameter: 90"

Modifier:  
 Engine Model: GO-435-C2, -C2B  
 Power: 240 HP @ 2182 RPM  
 Placard/Restr:  
 Notes:

**Prop Setup:**

Ref. Radius: 30  
 Reverse Angle: NA  
 Low Pitch Angle: 19.0 +-0.2  
 Stud Protrusion

Startlock Angle: 23.5 +-1.5  
 Feather/High Angle: 89.0 +-0.5  
 Cwt Angle: Positive

**Non-HPI Items:**

Non-HPI Spinner:

Non-HPI Governor:

**Hartzell Approved Items:**

| Item Type | Item Number | Description              | Quantity | Qty Per | Comments |
|-----------|-------------|--------------------------|----------|---------|----------|
| BLADE     | MV9333N-3   | PCP:BLADE UNIT, ALUMINUM | 2        | Prop    |          |
| SPINNER   | 835-1S      | IDS Item                 | 1        | Prop    |          |

**GRUMMAN (GULFSTREAM AERO.)**

IDS No.: 547 Rev.: 1 D Date: 01/07/2011

Model: G44, G44A  
 Trade Name: WIDGEON  
 Aircraft T.C./STC: A734  
 Propeller Model: HC-A2MV20-2  
 Propeller T.C.: P24EA  
 Blade Model(s): MV9333N-3  
 Prop Diameter: 90"

Modifier:  
 Engine Model: GO-435-C2B  
 Power: 260 HP @ 2182 RPM  
 Placard/Restr:  
 Notes:

**Prop Setup:**

Ref. Radius: 30  
 Reverse Angle: NA  
 Low Pitch Angle: 18.0 +-0.2  
 Stud Protrusion

Startlock Angle: 23.5 +-1.5  
 Feather/High Angle: 89.0 +-0.5  
 Cwt Angle: Positive

**Non-HPI Items:**

Non-HPI Spinner:

Non-HPI Governor:

**Hartzell Approved Items:**

| Item Type     | Item Number | Description                | Quantity | Qty Per | Comments |
|---------------|-------------|----------------------------|----------|---------|----------|
| PROPELLER     | A2210011    | HC-A2MV20-2/MV9333N-3      | 2        | A/C     |          |
| BLADE         | MV9333N-3   | PCP:BLADE UNIT, ALUMINUM   | 2        | Prop    |          |
| SPINNER       | 835-1S      | IDS Item                   | 1        | Prop    |          |
| MTG BOLT/STUD | A-63B       | PCP: NUT, SHAFT, 20 SPLINE | 1        | Prop    |          |
| MTG BOLT/STUD | A-63-B      | NUT,SHAFT,20 SPLINE        | 1        | Prop    |          |

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GRUMMAN (GULFSTREAM AERO.)

IDS No.: 2184 Rev.: - DM Date: 11/20/2003

Model: G44, G44A  
 Trade Name: WIDGEON  
 Aircraft T.C./STC: A734  
 Propeller Model: HC-83X20-2, HC-A3X20-2, HC-83X20-2A  
 Propeller T.C.: P6EA  
 Blade Model(s): 8433  
 Prop Diameter: 84.6" TO 84"

Modifier:  
 Engine Model: GO-435-C2B  
 Power: 260 HP @ 2182 RPM  
 Placard/Restr:

**Notes:**

**Prop Setup:**

Ref. Radius: 30  
 Reverse Angle: NA  
 Low Pitch Angle: 14.0 +-0.2  
 Stud Protrusion

Startlock Angle: 21.3 +-1.5  
 Feather/High Angle: 82.5 +-0.5  
 Cwt Angle: Positive

**Non-HPI Items:**

Non-HPI Spinner:

Non-HPI Governor:

**Hartzell Approved Items:**

| Item Type     | Item Number | Description                | Quantity | Qty Per | Comments |
|---------------|-------------|----------------------------|----------|---------|----------|
| BLADE         | 8433        | BLADE                      | 3        | Prop    |          |
| SPINNER       | 835-10S     | SPINNER ASSEMBLY           | 1        | Prop    |          |
| GOVERNOR      | B2          | GOVERNOR ASSEMBLY, B-2-( ) | 1        | Prop    |          |
| MTG BOLT/STUD | A-63B       | PCP: NUT, SHAFT, 20 SPLINE | 1        | Prop    |          |
| MTG BOLT/STUD | A-63-B      | NUT,SHAFT,20 SPLINE        | 1        | Prop    |          |

GRUMMAN (GULFSTREAM AERO.)

IDS No.: 2185 Rev.: - DM Date: 11/20/2003

Model: G44, G44A  
 Trade Name: WIDGEON  
 Aircraft T.C./STC: A734  
 Propeller Model: HC-83V20-2, HC-A3V20-2, HC-83V20-2A  
 Propeller T.C.: P6EA  
 Blade Model(s): V8433  
 V8433N  
 Prop Diameter: 84.6" TO 84"

Modifier:  
 Engine Model: GO-435-C2B  
 Power: 260 HP @ 2182 RPM  
 Placard/Restr:

**Notes:**

**Prop Setup:**

Ref. Radius: 30  
 Reverse Angle: NA  
 Low Pitch Angle: 14.0 +-0.2  
 Stud Protrusion

Startlock Angle: 21.3 +-1.5  
 Feather/High Angle: 82.5 +-0.5  
 Cwt Angle: Positive

**Non-HPI Items:**

Non-HPI Spinner:

Non-HPI Governor:

**Hartzell Approved Items:**

| Item Type     | Item Number | Description                | Quantity | Qty Per | Comments |
|---------------|-------------|----------------------------|----------|---------|----------|
| BLADE         | V8433       | BLADE                      | 3        | Prop    |          |
| BLADE         | V8433N      | BLADE                      | 3        | Prop    |          |
| SPINNER       | 835-10S     | SPINNER ASSEMBLY           | 1        | Prop    |          |
| GOVERNOR      | B2          | GOVERNOR ASSEMBLY, B-2-( ) | 1        | Prop    |          |
| MTG BOLT/STUD | A-63B       | PCP: NUT, SHAFT, 20 SPLINE | 1        | Prop    |          |
| MTG BOLT/STUD | A-63-B      | NUT,SHAFT,20 SPLINE        | 1        | Prop    |          |

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**GRUMMAN (GULFSTREAM AERO.)**

IDS No.: 548      Rev.: 2      IC      Date: 07/07/2015

**Model:** G44, G44A  
**Trade Name:** WIDGEON  
**Aircraft T.C./STC:** A734  
**Propeller Model:** HC-A3MV20-2  
**Propeller T.C.:** P6EA  
**Blade Model(s):** MV8433N  
**Prop Diameter:** 84.6" TO 84"

**Modifier:**  
**Engine Model:** GO-435-C2B  
**Power:** 260 HP @ 2182 RPM  
**Placard/Restr:**  
**Notes:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 14.0 +-0.2  
**Stud Protrusion**

**Startlock Angle:** 21.3 +-1.5  
**Feather/High Angle:** 82.5 +-0.5  
**Cwt Angle:** Positive

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>           | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|------------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | A3210064           | HC-A3MV20-2/MV8433N          | 2               | A/C            |                          |
| BLADE            | MV8433N            | PCP:BLADE UNIT, ALUM [1,1,1] | 3               | Prop           |                          |
| SPINNER          | 835-10S            | SPINNER ASSEMBLY             | 1               | Prop           |                          |
| GOVERNOR         | B2                 | GOVERNOR ASSEMBLY, B-2-()    | 2               | A/C            |                          |
| MTG BOLT/STUD    | A-63B              | PCP: NUT, SHAFT, 20 SPLINE   | 1               | Prop           |                          |
| MTG BOLT/STUD    | A-63-B             | NUT,SHAFT,20 SPLINE          | 1               | Prop           |                          |
| OVERHAUL KIT     | HC-A3MV20-2-OH     | O/H KIT                      | 1               | Prop           | For aftermarket use only |

**GRUMMAN (GULFSTREAM AERO.)**

IDS No.: 2186      Rev.: -      DM      Date: 11/20/2003

**Model:** G44, G44A  
**Trade Name:** WIDGEON  
**Aircraft T.C./STC:** A734  
**Propeller Model:** HC-83X20-2, HC-A3X20-2, HC-83X20-2A  
**Propeller T.C.:** P6EA  
**Blade Model(s):** 8433  
**Prop Diameter:** 84.6" TO 84"

**Modifier:**  
**Engine Model:** GO-480-B1, -B1D  
**Power:** 270 HP @ 2182 RPM  
**Placard/Restr:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 15.5 +-0.2  
**Stud Protrusion**

**Startlock Angle:** 22.8 +-1.5  
**Feather/High Angle:** 84.0 +-0.5  
**Cwt Angle:** Positive

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>         | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|----------------------------|-----------------|----------------|-----------------|
| BLADE            | 8433               | BLADE                      | 3               | Prop           |                 |
| SPINNER          | 835-10S            | SPINNER ASSEMBLY           | 1               | Prop           |                 |
| GOVERNOR         | B2                 | GOVERNOR ASSEMBLY, B-2-()  | 1               | Prop           |                 |
| MTG BOLT/STUD    | A-63B              | PCP: NUT, SHAFT, 20 SPLINE | 1               | Prop           |                 |
| MTG BOLT/STUD    | A-63-B             | NUT,SHAFT,20 SPLINE        | 1               | Prop           |                 |

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**GRUMMAN (GULFSTREAM AERO.)**

IDS No.: 2187 Rev.: - DM Date: 11/20/2003

Model: G44, G44A  
 Trade Name: WIDGEON  
 Aircraft T.C./STC: A734  
 Propeller Model: HC-83V20-2, HC-A3V20-2  
 Propeller T.C.: P6EA  
 Blade Model(s): V8433  
 V8433N  
 Prop Diameter: 84.6" TO 84"

Modifier:  
 Engine Model: GO-480-B1, -B1D  
 Power: 270 HP @ 2182 RPM  
 Placard/Restr:  
 Notes:

**Prop Setup:**

Ref. Radius: 30  
 Reverse Angle: NA  
 Low Pitch Angle: 15.5 +-0.2  
 Stud Protrusion

Startlock Angle: 22.8 +-1.5  
 Feather/High Angle: 84.0 +-0.5  
 Cwt Angle: Positive

**Non-HPI Items:**

Non-HPI Spinner:

Non-HPI Governor:

**Hartzell Approved Items:**

| Item Type     | Item Number | Description                | Quantity | Qty Per | Comments |
|---------------|-------------|----------------------------|----------|---------|----------|
| BLADE         | V8433       | BLADE                      | 3        | Prop    |          |
| BLADE         | V8433N      | BLADE                      | 3        | Prop    |          |
| SPINNER       | 835-10S     | SPINNER ASSEMBLY           | 1        | Prop    |          |
| GOVERNOR      | B2          | GOVERNOR ASSEMBLY, B-2-()  | 1        | Prop    |          |
| MTG BOLT/STUD | A-63B       | PCP: NUT, SHAFT, 20 SPLINE | 1        | Prop    |          |
| MTG BOLT/STUD | A-63-B      | NUT,SHAFT,20 SPLINE        | 1        | Prop    |          |

**GRUMMAN (GULFSTREAM AERO.)**

IDS No.: 549 Rev.: 2 IC Date: 07/07/2015

Model: G44, G44A  
 Trade Name: WIDGEON  
 Aircraft T.C./STC: A734  
 Propeller Model: HC-A3MV20-2  
 Propeller T.C.: P6EA  
 Blade Model(s): MV8433N  
 Prop Diameter: 84.6" TO 84"

Modifier:  
 Engine Model: GO-480-B1, -B1D  
 Power: 270 HP @ 2182 RPM  
 Placard/Restr:  
 Notes:

**Prop Setup:**

Ref. Radius: 30  
 Reverse Angle: NA  
 Low Pitch Angle: 15.5 +-0.2  
 Stud Protrusion

Startlock Angle: 22.8 +-1.5  
 Feather/High Angle: 84.0 +-0.5  
 Cwt Angle: Positive

**Non-HPI Items:**

Non-HPI Spinner:

Non-HPI Governor:

**Hartzell Approved Items:**

| Item Type     | Item Number    | Description                  | Quantity | Qty Per | Comments                 |
|---------------|----------------|------------------------------|----------|---------|--------------------------|
| PROPELLER     | A3210070       | HC-A3MV20-2/MV8433N          | 2        | A/C     |                          |
| BLADE         | MV8433N        | PCP:BLADE UNIT, ALUM [1,1,1] | 3        | Prop    |                          |
| SPINNER       | 835-10S        | SPINNER ASSEMBLY             | 1        | Prop    |                          |
| GOVERNOR      | B2             | GOVERNOR ASSEMBLY, B-2-()    | 2        | A/C     |                          |
| MTG BOLT/STUD | A-63B          | PCP: NUT, SHAFT, 20 SPLINE   | 1        | Prop    |                          |
| MTG BOLT/STUD | A-63-B         | NUT,SHAFT,20 SPLINE          | 1        | Prop    |                          |
| OVERHAUL KIT  | HC-A3MV20-2-OH | O/H KIT                      | 1        | Prop    | For aftermarket use only |

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### GRUMMAN (GULFSTREAM AERO.)

**Model:** G44, G44A  
**Trade Name:** WIDGEON  
**Aircraft T.C./STC:** STC-SA4-64  
**Propeller Model:** HC-A2MV20-2  
**Propeller T.C.:** P24EA  
**Blade Model(s):** MV9333N-3  
**Prop Diameter:** 90.6"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 18.0 +-0.2  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

#### Hartzell Approved Items:

| Item Type     | Item Number | Description                | Quantity | Qty Per | Comments |
|---------------|-------------|----------------------------|----------|---------|----------|
| BLADE         | MV9333N-3   | PCP:BLADE UNIT, ALUMINUM   | 2        | Prop    |          |
| MTG BOLT/STUD | A-63B       | PCP: NUT, SHAFT, 20 SPLINE | 1        | Prop    |          |
| MTG BOLT/STUD | A-63-B      | NUT,SHAFT,20 SPLINE        | 1        | Prop    |          |

**IDS No.:** 557      **Rev.:** 1      **D**      **Date:** 01/07/2011

**Modifier:** VIKING AIR LTD.  
**Engine Model:** GO-435-C2B  
**Power:** 260 HP @ 2182 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** 23.5 +-1.5  
**Feather/High Angle:** 89.0 +-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:**

### GRUMMAN (GULFSTREAM AERO.)

**Model:** G44, G44A  
**Trade Name:** WIDGEON  
**Aircraft T.C./STC:** STC-SA4-65,-64  
**Propeller Model:** HC-83X20-2A  
**Propeller T.C.:** P6EA  
**Blade Model(s):** 8433  
**Prop Diameter:** 84.6" NO CUT OFF

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 15.5 +-0.2  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

#### Hartzell Approved Items:

| Item Type     | Item Number | Description                | Quantity | Qty Per | Comments |
|---------------|-------------|----------------------------|----------|---------|----------|
| BLADE         | 8433        | BLADE                      | 3        | Prop    |          |
| SPINNER       | 835-10S     | SPINNER ASSEMBLY           | 1        | Prop    |          |
| GOVERNOR      | B2          | GOVERNOR ASSEMBLY, B-2-( ) | 1        | Prop    |          |
| MTG BOLT/STUD | A-63B       | PCP: NUT, SHAFT, 20 SPLINE | 1        | Prop    |          |
| MTG BOLT/STUD | A-63-B      | NUT,SHAFT,20 SPLINE        | 1        | Prop    |          |

**IDS No.:** 2193      **Rev.:** -      **DM**      **Date:** 11/20/2003

**Modifier:** VIKING AIR LTD.  
**Engine Model:** GO-480-B1  
**Power:** 270 HP @ 2182 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** 22.8 +-1.5  
**Feather/High Angle:** 84.0 +-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:**

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**GRUMMAN (GULFSTREAM AERO.)**

**Model:** G44, G44A  
**Trade Name:** WIDGEON  
**Aircraft T.C./STC:** STC-SA4-64  
**Propeller Model:** HC-83X20-2A  
**Propeller T.C.:** P6EA  
**Blade Model(s):** 8433  
**Prop Diameter:** 84.6"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 14.0 +-0.2  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number | Description                | Quantity | Qty Per | Comments |
|---------------|-------------|----------------------------|----------|---------|----------|
| BLADE         | 8433        | BLADE                      | 3        | Prop    |          |
| SPINNER       | 835-10S     | SPINNER ASSEMBLY           | 1        | Prop    |          |
| GOVERNOR      | B2          | GOVERNOR ASSEMBLY, B-2-( ) | 1        | Prop    |          |
| MTG BOLT/STUD | A-63B       | PCP: NUT, SHAFT, 20 SPLINE | 1        | Prop    |          |
| MTG BOLT/STUD | A-63-B      | NUT,SHAFT,20 SPLINE        | 1        | Prop    |          |

**IDS No.:** 2192      **Rev.:** -      **DM Date:** 11/20/2003

**Modifier:** VIKING AIR LTD.  
**Engine Model:** GO-435-C2B  
**Power:** 260 HP @ 2182 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** 21.3 +-1.5  
**Feather/High Angle:** 82.5 +-0.5  
**Cwt Angle:**

**Non-HPI Governor:**

**GRUMMAN (GULFSTREAM AERO.)**

**Model:** G44, G44A  
**Trade Name:** WIDGEON  
**Aircraft T.C./STC:** STC-SA4-64  
**Propeller Model:** HC-A3MV20-2  
**Propeller T.C.:** P6EA  
**Blade Model(s):** MV8433N  
**Prop Diameter:** 84.6"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 14.0 +-0.2  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number | Description                  | Quantity | Qty Per | Comments |
|---------------|-------------|------------------------------|----------|---------|----------|
| BLADE         | MV8433N     | PCP:BLADE UNIT, ALUM [1,1,1] | 3        | Prop    |          |
| SPINNER       | 835-10S     | SPINNER ASSEMBLY             | 1        | Prop    |          |
| GOVERNOR      | B2          | GOVERNOR ASSEMBLY, B-2-( )   | 2        | A/C     |          |
| MTG BOLT/STUD | A-63B       | PCP: NUT, SHAFT, 20 SPLINE   | 1        | Prop    |          |
| MTG BOLT/STUD | A-63-B      | NUT,SHAFT,20 SPLINE          | 1        | Prop    |          |

**IDS No.:** 558      **Rev.:** -      **DM Date:** 06/06/2006

**Modifier:** VIKING AIR LTD.  
**Engine Model:** GO-435-C2B  
**Power:** 260 HP @ 2182 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** 21.3 +-1.5  
**Feather/High Angle:** 82.5 +-0.5  
**Cwt Angle:**

**Non-HPI Governor:**

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**GRUMMAN (GULFSTREAM AERO.)**

**Model:** G44, G44A  
**Trade Name:** WIDGEON  
**Aircraft T.C./STC:** STC-SA4-65,-64  
**Propeller Model:** HC-A3MV20-2  
**Propeller T.C.:** P6EA  
**Blade Model(s):** MV8433N  
**Prop Diameter:** 84.6" NO CUT OFF

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 15.5 +-0.2  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number    | Description                  | Quantity | Qty Per | Comments                 |
|---------------|----------------|------------------------------|----------|---------|--------------------------|
| PROPELLER     | A3210069       | HC-A3MV20-2/MV8433N          | 2        | A/C     |                          |
| BLADE         | MV8433N        | PCP:BLADE UNIT, ALUM [1,1,1] | 3        | Prop    |                          |
| SPINNER       | 835-10S        | SPINNER ASSEMBLY             | 1        | Prop    |                          |
| GOVERNOR      | B2             | GOVERNOR ASSEMBLY, B-2-()    | 2        | A/C     |                          |
| MTG BOLT/STUD | A-63B          | PCP: NUT, SHAFT, 20 SPLINE   | 1        | Prop    |                          |
| MTG BOLT/STUD | A-63-B         | NUT,SHAFT,20 SPLINE          | 1        | Prop    |                          |
| OVERHAUL KIT  | HC-A3MV20-2-OH | O/H KIT                      | 1        | Prop    | For aftermarket use only |

**IDS No.:** 559      **Rev.:** 2      **IC Date:** 07/07/2015

**Modifier:** VIKING AIR LTD.  
**Engine Model:** GO-480-B1  
**Power:** 270 HP @ 2182 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** 22.8 +-1.5  
**Feather/High Angle:** 84.0 +-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:**

**GRUMMAN (GULFSTREAM AERO.)**

**Model:** G44, G44A  
**Trade Name:** WIDGEON  
**Aircraft T.C./STC:** STC-SA4-111  
**Propeller Model:** HC-83X20-2A  
**Propeller T.C.:** P6EA  
**Blade Model(s):** 8433  
**Prop Diameter:** 84.6"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 15.5 +-0.2  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number | Description                | Quantity | Qty Per | Comments |
|---------------|-------------|----------------------------|----------|---------|----------|
| BLADE         | 8433        | BLADE                      | 3        | Prop    |          |
| SPINNER       | 835-10S     | SPINNER ASSEMBLY           | 1        | Prop    |          |
| GOVERNOR      | B2          | GOVERNOR ASSEMBLY, B-2-()  | 1        | Prop    |          |
| MTG BOLT/STUD | A-63B       | PCP: NUT, SHAFT, 20 SPLINE | 1        | Prop    |          |
| MTG BOLT/STUD | A-63-B      | NUT,SHAFT,20 SPLINE        | 1        | Prop    |          |

**IDS No.:** 2191      **Rev.:** -      **DM Date:** 11/20/2003

**Modifier:** VIKING AIR LTD.  
**Engine Model:** GO-480-C1D6  
**Power:** 295 HP @ 2182 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 83.0 +-1.0  
**Cwt Angle:** Positive

**Non-HPI Governor:**



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**GRUMMAN (GULFSTREAM AERO.)**

**Model:** G44, G44A  
**Trade Name:** WIDGEON  
**Aircraft T.C./STC:** STC-SA4-111  
**Propeller Model:** HC-A3MV20-2  
**Propeller T.C.:** P6EA  
**Blade Model(s):** MV8433N  
**Prop Diameter:** 84.6"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 15.5 +-0.2  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number | Description                  | Quantity | Qty Per | Comments |
|---------------|-------------|------------------------------|----------|---------|----------|
| BLADE         | MV8433N     | PCP:BLADE UNIT, ALUM [1,1,1] | 3        | Prop    |          |
| SPINNER       | 835-10S     | SPINNER ASSEMBLY             | 1        | Prop    |          |
| GOVERNOR      | B2          | GOVERNOR ASSEMBLY, B-2-()    | 2        | A/C     |          |
| MTG BOLT/STUD | A-63B       | PCP: NUT, SHAFT, 20 SPLINE   | 1        | Prop    |          |
| MTG BOLT/STUD | A-63-B      | NUT,SHAFT,20 SPLINE          | 1        | Prop    |          |

**IDS No.:** 556      **Rev.:** 1      **D**      **Date:** 01/07/2011

**Modifier:** VIKING AIR LTD.  
**Engine Model:** GO-480-C1D6  
**Power:** 295 HP @ 2182 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 83.0 +-1.0  
**Cwt Angle:** Positive

**Non-HPI Governor:**

**GRUMMAN (GULFSTREAM AERO.)**

**Model:** G44, G44A  
**Trade Name:** WIDGEON  
**Aircraft T.C./STC:** STC-SA835SO  
**Propeller Model:** HC-A3VF-5R  
**Propeller T.C.:** P6EA  
**Blade Model(s):** V9333C-3  
**Prop Diameter:** 90.6"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** -12.0 +-0.1  
**Low Pitch Angle:** 14.0 +-0.1  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type                     | Item Number | Description               | Quantity | Qty Per | Comments |
|-------------------------------|-------------|---------------------------|----------|---------|----------|
| BLADE                         | V9333C-3    | BLADE                     | 3        | Prop    |          |
| SPINNER                       | C-3043-7    | IDS Item                  | 1        | Prop    |          |
| GOVERNOR                      | B3          | GOVERNOR ASSEMBLY, B-3-() | 1        | Prop    |          |
| COUNTERWEIGHT                 | 833-29      | IDS Item                  | 1        | Blade   |          |
| COUNTERWEIGHT SLUG A-890-12   |             | PCP:SLUG, COUNTERWEIGHT   | 2        | Blade   |          |
| COUNTERWEIGHT SLUG B-3384-12H |             | BOLT, 1/4-28, HEX HEAD    | 2        | Blade   |          |

**IDS No.:** 2190      **Rev.:** -      **DM**      **Date:** 11/20/2003

**Modifier:** AEROMAR INC.  
**Engine Model:** GO-480-G2D6  
**Power:** 295 HP @ 2182 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 84.0 +-1.0  
**Cwt Angle:** Positive

**Non-HPI Governor:**

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GRUMMAN (GULFSTREAM AERO.)

**Model:** G44, G44A  
**Trade Name:** WIDGEON  
**Aircraft T.C./STC:** STC-SA835SO  
**Propeller Model:** HC-A3MVF-5R  
**Propeller T.C.:** P6EA  
**Blade Model(s):** MV9333N-3  
**Prop Diameter:** 90.6"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** -12.0 +-0.1  
**Low Pitch Angle:** 14.0 +-0.1  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 554      **Rev.:** 1      **D**      **Date:** 01/07/2011

**Modifier:** AEROMAR INC.  
**Engine Model:** GO-480-G2D6  
**Power:** 295 HP @ 2182 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 84.0 +-1.0  
**Cwt Angle:** Positive

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u>              | <u>Item Number</u> | <u>Description</u>         | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|-------------------------------|--------------------|----------------------------|-----------------|----------------|-----------------|
| BLADE                         | MV9333N-3          | PCP:BLADE UNIT, ALUMINUM   | 3               | Prop           |                 |
| SPINNER                       | C-3043-7           | IDS Item                   | 1               | Prop           |                 |
| GOVERNOR                      | B3                 | GOVERNOR ASSEMBLY, B-3-( ) | 2               | A/C            |                 |
| COUNTERWEIGHT                 | 833-29             | IDS Item                   | 1               | Blade          |                 |
| COUNTERWEIGHT SLUG A-890-12   |                    | PCP:SLUG, COUNTERWEIGHT    | 2               | Blade          |                 |
| COUNTERWEIGHT SLUG B-3384-12H |                    | BOLT, 1/4-28, HEX HEAD     | 2               | Blade          |                 |

GRUMMAN (GULFSTREAM AERO.)

**Model:** G44, G44A  
**Trade Name:** WIDGEON  
**Aircraft T.C./STC:** STC-SA2-13  
**Propeller Model:** HC-82XF-2C  
**Propeller T.C.:** P24EA  
**Blade Model(s):** 8433  
**Prop Diameter:** 84.2"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.5 +-0.2  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 2195      **Rev.:** -      **DM**      **Date:** 11/20/2003

**Modifier:** JR McDERMOTT CO.  
**Engine Model:** O-470-B  
**Power:** 240 HP @ 2600 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 82.0 +-1.0  
**Cwt Angle:** Positive

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u> | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|--------------------|-----------------|----------------|-----------------|
| BLADE            | 8433               | BLADE              | 2               | Prop           |                 |
| SPINNER          | 835-13             | SPINNER ASSEMBLY   | 1               | Prop           |                 |
| COUNTERWEIGHT    | 833-9-2            | IDS Item           | 1               | Blade          |                 |

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### GRUMMAN (GULFSTREAM AERO.)

**Model:** G44, G44A  
**Trade Name:** WIDGEON  
**Aircraft T.C./STC:** STC-SA2-13  
**Propeller Model:** HC-A2MVF-2  
**Propeller T.C.:** P24EA  
**Blade Model(s):** MV8433N  
**Prop Diameter:** 84.2"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.5 +-0.2  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

#### Hartzell Approved Items:

| Item Type     | Item Number | Description                  | Quantity | Qty Per | Comments |
|---------------|-------------|------------------------------|----------|---------|----------|
| BLADE         | MV8433N     | PCP:BLADE UNIT, ALUM [1,1,1] | 2        | Prop    |          |
| SPINNER       | 835-13      | SPINNER ASSEMBLY             | 1        | Prop    |          |
| COUNTERWEIGHT | 833-9-2     | IDS Item                     | 1        | Blade   |          |

**IDS No.:** 564      **Rev.:** -      **DM Date:** 05/16/1998

**Modifier:** JR McDERMOTT CO.  
**Engine Model:** O-470-B  
**Power:** 240 HP @ 2600 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 82.0 +-1.0  
**Cwt Angle:** Positive

**Non-HPI Governor:**

### GRUMMAN (GULFSTREAM AERO.)

**Model:** G44, G44A  
**Trade Name:** WIDGEON  
**Aircraft T.C./STC:** STC-SA2-13  
**Propeller Model:** HC-A2MVF-2B  
**Propeller T.C.:** P24EA  
**Blade Model(s):** MV8433N  
**Prop Diameter:** 84.2"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.0 +-0.2  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

#### Hartzell Approved Items:

| Item Type     | Item Number | Description                  | Quantity | Qty Per | Comments |
|---------------|-------------|------------------------------|----------|---------|----------|
| BLADE         | MV8433N     | PCP:BLADE UNIT, ALUM [1,1,1] | 2        | Prop    |          |
| SPINNER       | 835-13      | SPINNER ASSEMBLY             | 1        | Prop    |          |
| COUNTERWEIGHT | 833-9-2     | IDS Item                     | 1        | Blade   |          |

**IDS No.:** 563      **Rev.:** -      **DM Date:** 05/16/1998

**Modifier:** JR McDERMOTT CO.  
**Engine Model:** IO-470-D  
**Power:** 260 HP @ 2625 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 82.0 +-1.0  
**Cwt Angle:** Positive

**Non-HPI Governor:**

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### GRUMMAN (GULFSTREAM AERO.)

**Model:** G44, G44A  
**Trade Name:** WIDGEON  
**Aircraft T.C./STC:** STC-SA4-2  
**Propeller Model:** HC-93Z20-2D1  
**Propeller T.C.:**  
**Blade Model(s):** 9349-5  
9349N-5  
**Prop Diameter:** 88"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 14.5 +-0.2  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 555      **Rev.:** -      **DM Date:** 10/06/1998

**Modifier:** GANDER AIRCRAFT  
**Engine Model:** R680-E  
**Power:** 300 HP @ 2300 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 83.0 +-1.0  
**Cwt Angle:** Positive

**Non-HPI Governor:**

#### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u> | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|--------------------|-----------------|----------------|-----------------|
| BLADE            | 9349-5             | IDS Item           | 3               | Prop           |                 |
| BLADE            | 9349N-5            | IDS Item           | 3               | Prop           |                 |

### GRUMMAN (GULFSTREAM AERO.)

**Model:** G44, G44A  
**Trade Name:** WIDGEON  
**Aircraft T.C./STC:** STC-SA4-2  
**Propeller Model:** HC-93Z20-2D1  
**Propeller T.C.:**  
**Blade Model(s):** 9349-9  
9349N-9  
**Prop Diameter:** 84"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 16.5 +-0.2  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 1567      **Rev.:** -      **DM Date:** 10/06/1998

**Modifier:** GANDER AIRCRAFT  
**Engine Model:** R680-E  
**Power:** 300 HP @ 2300 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 83.0 +-1.0  
**Cwt Angle:** Positive

**Non-HPI Governor:**

#### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u> | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|--------------------|-----------------|----------------|-----------------|
| BLADE            | 9349-9             | IDS Item           | 3               | Prop           |                 |
| BLADE            | 9349N-9            | IDS Item           | 3               | Prop           |                 |

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### GRUMMAN (GULFSTREAM AERO.)

**Model:** G44, G44A  
**Trade Name:** WIDGEON  
**Aircraft T.C./STC:** STC-SA4774NM  
**Propeller Model:** HC-C3YR-2UF, -2LUF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** FC9587A-10  
 FJC9587A-10  
**Prop Diameter:** 87"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.3 +-0.2  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 562 **Rev.:** - **DM Date:** 01/12/2004

**Modifier:** ACE AVIATION INC.  
**Engine Model:** TIO-540-J2BD, LTIO-540-J2BD  
**Power:** 300 HP @ 2575 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** 17.8 +-1.5  
**Feather/High Angle:** 82.0 +-0.5  
**Cwt Angle:**

#### Hartzell Approved Items:

| Item Type     | Item Number | Description                   | Quantity | Qty Per | Comments        |
|---------------|-------------|-------------------------------|----------|---------|-----------------|
| PROPELLER     | C3R00189    | HC-C3YR-2LUF/FJC9587A-10/SM11 | 2        | A/C     |                 |
| PROPELLER     | C3R00207    | HC-C3YR-2UF/FC9587A-10/SM11   | 2        | A/C     |                 |
| BLADE         | FC9587A-10  | PCP:BLADE UNIT, ALUMINUM      | 3        | Prop    |                 |
| BLADE         | FJC9587A-10 | PCP:BLADE UNIT, ALUMINUM      | 3        | Prop    |                 |
| SPIN MTG KIT  | A-2476-11   | SPINNER - MTG KIT             | 1        | Prop    |                 |
| COUNTERWEIGHT | B-3202H-15  | PCP:COUNTERWEIGHT             | 1        | Blade   | Blade Component |
| MTG BOLT/STUD | A-2067      | STUD, MOUNTING, 1/2-20        | 6        | Prop    |                 |

**Non-HPI Governor:**

### GRUMMAN (GULFSTREAM AERO.)

**Model:** G44, G44A, SCAN 30 (left side)  
**Trade Name:** WIDGEON  
**Aircraft T.C./STC:** SA4774NM  
**Propeller Model:** HC-C3YR-2LUF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** FJC9587A-10  
**Prop Diameter:** 87"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.3 +-0.2  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:** PIPER

**IDS No.:** 1285 **Rev.:** 1 **IC Date:** 07/15/2015

**Modifier:** A.C.E.AVIATION, INC.  
**Engine Model:** LTIO-540-J2BD  
**Power:** 300 HP @ 2575 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** 17.8 +-1.5  
**Feather/High Angle:** 82.0 +-0.5  
**Cwt Angle:**

#### Hartzell Approved Items:

| Item Type     | Item Number     | Description                   | Quantity | Qty Per | Comments                 |
|---------------|-----------------|-------------------------------|----------|---------|--------------------------|
| PROPELLER     | C3R00186        | HC-C3YR-2LUF/FJC9587A-10/SM11 | 1        | A/C     |                          |
| BLADE         | FJC9587A-10     | PCP:BLADE UNIT, ALUMINUM      | 3        | Prop    |                          |
| SPIN MTG KIT  | A-2476-11       | SPINNER - MTG KIT             | 1        | Prop    |                          |
| COUNTERWEIGHT | B-3202H-15      | PCP:COUNTERWEIGHT             | 1        | Blade   | Blade Component          |
| MTG BOLT/STUD | A-2067          | STUD, MOUNTING, 1/2-20        | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-C3YR-2LUF-OH | O/H KIT                       | 1        | Prop    | For aftermarket use only |

# HARTZELL

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**GRUMMAN (GULFSTREAM AERO.)**

**Model:** G44, G44A, SCAN 30 (right side)  
**Trade Name:** WIDGEON  
**Aircraft T.C./STC:** SA4774NM  
**Propeller Model:** HC-C3YR-2UF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** FC9587A-10  
**Prop Diameter:** 87"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.3 +-0.2  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:** PIPER

**Hartzell Approved Items:**

| Item Type     | Item Number    | Description                 | Quantity | Qty Per | Comments                 |
|---------------|----------------|-----------------------------|----------|---------|--------------------------|
| PROPELLER     | C3R00206       | HC-C3YR-2UF/FC9587A-10/SM11 | 1        | A/C     |                          |
| BLADE         | FC9587A-10     | PCP:BLADE UNIT, ALUMINUM    | 3        | Prop    |                          |
| SPIN MTG KIT  | A-2476-11      | SPINNER - MTG KIT           | 1        | Prop    |                          |
| COUNTERWEIGHT | B-3202H-15     | PCP:COUNTERWEIGHT           | 1        | Blade   | Blade Component          |
| MTG BOLT/STUD | A-2067         | STUD, MOUNTING, 1/2-20      | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-C3YR-2UF-OH | O/H KIT                     | 1        | Prop    | For aftermarket use only |

**IDS No.:** 1286      **Rev.:** 1      **IC Date:** 07/15/2015

**Modifier:** A.C.E.AVIATION, INC.  
**Engine Model:** TIO-540-J2BD (RIGHT SIDE)  
**Power:** 300 HP @ 2575 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** 17.8 +-1.5  
**Feather/High Angle:** 82.0 +-0.5  
**Cwt Angle:**

**Non-HPI Governor:**

**GRUMMAN (GULFSTREAM AERO.)**

**Model:** G44, G44A  
**Trade Name:** WIDGEON  
**Aircraft T.C./STC:** Experimental  
**Propeller Model:** PHC-A3VF-2B  
**Propeller T.C.:** P6EA  
**Blade Model(s):** V7636N  
**Prop Diameter:** 76.625" TO 74.625"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.8 +-0.2  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type          | Item Number | Description | Quantity | Qty Per | Comments |
|--------------------|-------------|-------------|----------|---------|----------|
| BLADE              | V7636N      | BLADE       | 3        | Prop    |          |
| COUNTERWEIGHT SLUG | A-30        | IDS Item    | 3        | Blade   |          |

**IDS No.:** 2194      **Rev.:** -      **DM Date:** 11/20/2003

**Modifier:** G.J.NEWELL  
**Engine Model:** IO-520-E  
**Power:** 300 HP @ 2850 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:**  
**Feather/High Angle:** 85.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

# HARTZELL

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**GRUMMAN (GULFSTREAM AERO.)**

**Model:** G44, G44A  
**Trade Name:** WIDGEON  
**Aircraft T.C./STC:** Experimental  
**Propeller Model:** PHC-A3MVF-2B  
**Propeller T.C.:** P6EA  
**Blade Model(s):** MV7636N  
**Prop Diameter:** 76.625" TO 74.625"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.8 +-0.2  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type               | Item Number | Description                  | Quantity | Qty Per | Comments |
|-------------------------|-------------|------------------------------|----------|---------|----------|
| BLADE                   | MV7636N     | PCP:BLADE UNIT, ALUM [1,1,1] | 3        | Prop    |          |
| COUNTERWEIGHT SLUG A-30 |             | IDS Item                     | 3        | Blade   |          |

**IDS No.:** 560 **Rev.:** - **DM Date:** 03/10/2003

**Modifier:** G.J.NEWELL  
**Engine Model:** IO-520-E  
**Power:** 300 HP @ 2850 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:**  
**Feather/High Angle:** 85.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

**GRUMMAN (GULFSTREAM AERO.)**

**Model:** G73  
**Trade Name:** MALLARD  
**Aircraft T.C./STC:** STC SA2323WE  
**Propeller Model:** HC-B3TN-3DY  
**Propeller T.C.:** P15EA  
**Blade Model(s):** T10178NB-5  
**Prop Diameter:** 96.5"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** -11.0 +-0.4  
**Low Pitch Angle:** 20.5 +-0.1  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type                      | Item Number   | Description                           | Quantity | Qty Per | Comments  |
|--------------------------------|---------------|---------------------------------------|----------|---------|---|
| BLADE                          | T10178NB-5    | PCP:BLADE UNIT, ALUMINUM              | 3        | Prop    |   |
| SPINNER                        | C-3065-1P     | SPINNER ASSEMBLY                      | 1        | Prop    |   |
| COUNTERWEIGHT SLUG A-3039      |               | SLUG, COUNTERWEIGHT                   | 1        | Blade   |   |
| COUNTERWEIGHT SLUG A-890-6     |               | PCP:SLUG, COUNTERWEIGHT               | 1        | Blade   | Primary   |
| COUNTERWEIGHT SLUG A-890-8     |               | PCP:SLUG, COUNTERWEIGHT               | 1        | Blade   | Alternate   |
| COUNTERWEIGHT SLUG A-890-9     |               | PCP:SLUG, COUNTERWEIGHT               | 1        | Blade   | Alternate   |
| COUNTERWEIGHT SLUG B-3384-21H  |               | BOLT, 1/4-28, HEX HEAD                | 2        | Blade   |   |
| COUNTERWEIGHT SLUG B-3851-0432 |               | WASHER                                | 2        | Blade   | Optional  |
| COUNTERWEIGHT SLUG B-3851-0463 |               | WASHER                                | 2        | Blade   | Optional  |
| DE-ICER                        | 4H1188-5      | DE-ICE BOOT                           | 1        | Blade   | Supersedes 7931-4E1188-5                                |
| DE-ICE KIT PR                  | 7931-65-090-1 | DE-ICE KIT (ONE PROP, W/ START-LOCKS) | 1        | Prop    |   |
| MTG BOLT/STUD                  | B-3339        | BOLT, MOUNTING, 9/16-18, 12 POINT     | 8        | Prop    |   |
| OVERHAUL KIT                   | 65-090-1-OH*1 | DE-ICE O/H KIT, 4H1188-5 BOOT         | 1        | Prop    | For aftermarket use only(KIT FOR PROP WITH START LOCKS) |

**IDS No.:** 544 **Rev.:** 3 **IC Date:** 07/15/2015

**Modifier:** FRAKES  
**Engine Model:** PT6A-27  
**Power:** 620 HP @ 2200 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** 2.0 +-1.0  
**Feather/High Angle:** 87.0 +-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:**

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GRUMMAN (GULFSTREAM AERO.)

**Model:** G-73  
**Trade Name:** MALLARD  
**Aircraft T.C./STC:** 226-I (CASAA)  
**Propeller Model:** HC-D4N-3T  
**Propeller T.C.:** P10NE

**IDS No.:** 1391      **Rev.:** 4      **IC Date:** 04/12/2017  
**Modifier:** AERO ENGINEERS, AUSTRALIA  
**Engine Model:** PT6A-34  
**Power:** 680 HP @ 2200 RPM  
**Placard/Restr:** Stabilized ground operation is prohibited between 450 and 1100 RPM. The propeller may be operated when feathered at or below 450 RPM.

**Blade Model(s):** D9511F-2  
D9511FK-2

**Prop Diameter:** 94"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** -10.0 +- 0.5  
**Low Pitch Angle:** 19.5 +0.2, -0.0  
**Stud Protrusion**

**Notes:**

**Startlock Angle:** -1.7 +-0.2  
**Feather/High Angle:** 86.1 +-0.5  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>             | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|--------------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | D4N00198KD         | HC-D4N-3T/D9511FK-2            | 2               | A/C            |                          |
| PROPELLER        | D4N00198S          | HC-D4N-3T/D9511FK-2/D-5319P    | 2               | A/C            |                          |
| BLADE            | D9511F-2           | PCP:BLADE UNIT, ALUMINUM       | 4               | Prop           |                          |
| BLADE            | D9511FK-2          | PCP:BLADE UNIT, ALUMINUM       | 4               | Prop           |                          |
| SPINNER          | D-5319-P           | SPINNER ASSEMBLY               | 1               | Prop           |                          |
| SPIN MTG KIT     | A-2070-7           | SCREW, 1/4-28, BUTTON HEAD     | 8               | Prop           |                          |
| COUNTERWEIGHT    | C-472-1            | PCP:COUNTERWEIGHT              | 1               | Blade          |                          |
| DE-ICER          | 4H3101-1           | DE-ICE BOOT, FOIL              | 1               | Blade          | Supersedes 7931-4E3101-1 |
| DE-ICE KIT PR    | 106298             | DE-ICE KIT (ONE PROP)          | 1               | Prop           | Supersedes 7931-67-933-1 |
| DE-ICE KIT PR    | 7931-67-933-1      | DE-ICE KIT (ONE PROP)          | 1               | Prop           | Superseded by 106298     |
| MTG BOLT/STUD    | B-3339-1           | BOLT,MOUNTING,9/16-18,12 POINT | 8               | Prop           |                          |
| OVERHAUL KIT     | HC-D4N-3T-OH       | O/H KIT                        | 1               | Prop           | For aftermarket use only |



# HARTZELL

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**GRUMMAN (MCKINNON)**

**Model:** G21A  
**Trade Name:** GOOSE  
**Aircraft T.C./STC:** STC-SA1-52  
**Propeller Model:** HC-B3(P,R,W,Z)30-2EA  
**Propeller T.C.:** SEE NOTES  
**Blade Model(s):** 10152-5.5  
 10152N-5.5  
 R10152N-5.5  
**Prop Diameter:** 95.5" NO CUT OFF

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 15.0 +-0.1  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number     | Description               | Quantity | Qty Per | Comments                 |
|---------------|-----------------|---------------------------|----------|---------|--------------------------|
| PROPELLER     | B3300021        | HC-B3R30-2EA/R10152-5.5   | 2        | A/C     | Replaced by B3310021     |
| PROPELLER     | B3310021        | HC-B3R30-2EA/R10152N-5.5  | 2        | A/C     |                          |
| BLADE         | 10152-5.5       | BLADE                     | 3        | Prop    |                          |
| BLADE         | 10152N-5.5      | BLADE                     | 3        | Prop    |                          |
| BLADE         | R10152N-5.5     | PCP:BLADE UNIT, ALUMINUM  | 3        | Prop    |                          |
| SPINNER       | 836-17SPR       | SPINNER ASSEMBLY          | 1        | Prop    |                          |
| SPINNER       | 836-32SPR       | SPINNER ASSEMBLY          | 1        | Prop    |                          |
| GOVERNOR      | C1              | IDS Item                  | 2        | A/C     | See STC                  |
| GOVERNOR      | C2              | IDS Item                  | 2        | A/C     | See STC                  |
| GOVERNOR      | C3              | GOVERNOR ASSEMBLY, C-3-() | 2        | A/C     | See STC                  |
| MTG BOLT/STUD | B-1894          | PCP: NUT,SHAFT, 30 SPLINE | 1        | Prop    |                          |
| OVERHAUL KIT  | HC-B3R30-2EA-OH | O/H KIT                   | 1        | Prop    | For aftermarket use only |

**IDS No.:** 568      **Rev.:** 2      **IC Date:** 07/07/2015

**Modifier:** HARTZELL PROPELLER  
**Engine Model:** R985 (with 4.5 & 6 order dampers)  
**Power:** 450 HP @ 2300 RPM  
**Placard/Restr:**

**Notes:** TC NO.: P2EA, date: 8/27/71 for W; TC NO.: P28EA, date: 3/31/67 for R; TC NO.: P29EA, date: 8/27/71 for P; TC NO.: P907, date: 3/7/67 for Z.

**Startlock Angle:** NA  
**Feather/High Angle:** 87.0 +-2.0  
**Cwt Angle:** Positive

**Non-HPI Governor:**

**GRUMMAN (MCKINNON)**

**Model:** G21C, D  
**Trade Name:** GOOSE  
**Aircraft T.C./STC:** 4A24  
**Propeller Model:** HC-83XF-3A  
**Propeller T.C.:**  
**Blade Model(s):**  
**Prop Diameter:** 93.2" TO 91"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** -23.0 +-0.5  
**Low Pitch Angle:** 17.5 +-0.2  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type | Item Number | Description      | Quantity | Qty Per | Comments |
|-----------|-------------|------------------|----------|---------|----------|
| SPINNER   | 836-25P     | SPINNER ASSEMBLY | 1        | Prop    |          |
| SPINNER   | 836-26P     | SPINNER ASSEMBLY | 1        | Prop    |          |

**IDS No.:** 2196      **Rev.:** -      **DM Date:** 11/20/2003

**Modifier:**  
**Engine Model:** GSO-480-B2D6  
**Power:** 340 HP @ 2182 RPM  
**Placard/Restr:**

**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 85.0 +-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:**

# HARTZELL

GRUMMAN (MCKINNON)

**Model:** G21C, D  
**Trade Name:** GOOSE  
**Aircraft T.C./STC:** 4A24  
**Propeller Model:** HC-83VF-3A  
**Propeller T.C.:**  
**Blade Model(s):**  
**Prop Diameter:** 93.2" TO 91"

## Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** -23.0 +/-0.5  
**Low Pitch Angle:** 17.5 +/-0.2

**Stud Protrusion**

## Non-HPI Items:

**Non-HPI Spinner:**

## Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u> | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|--------------------|-----------------|----------------|-----------------|
| SPINNER          | 836-25P            | SPINNER ASSEMBLY   | 1               | Prop           |                 |
| SPINNER          | 836-26P            | SPINNER ASSEMBLY   | 1               | Prop           |                 |

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**IDS No.:** 2197      **Rev.:** -      **DM Date:** 11/20/2003

**Modifier:**  
**Engine Model:** GSO-480-B2D6  
**Power:** 340 HP @ 2182 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 85.0 +/-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:**

# HARTZELL

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GRUMMAN (MCKINNON)

IDS No.: 567      Rev.: 3      IC      Date: 07/15/2015

**Model:** G21E, G  
**Trade Name:** GOOSE  
**Aircraft T.C./STC:** 4A24  
**Propeller Model:** HC-B3TN-3DY  
**Propeller T.C.:** P15EA  
**Blade Model(s):** T10178B-5  
                                  T10178NB-5  
**Prop Diameter:** 96.5" TO 96"

**Modifier:**  
**Engine Model:** PT6A-20, -27  
**Power:** 680 HP @ 2200 RPM  
**Placard/Restr:**  
**Notes:** Engine Ratings Note: PT6A-20 (550hp);  
 Aeroplanes LLC (TC holder) granted  
 approval for installation of de-ice kit 65-  
 090-1 on Grumman Goose per letter dated  
 9/30/2003.

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** -11.0 +-0.5  
**Low Pitch Angle:** 19.75 +-0.25  
**Stud Protrusion**

**Startlock Angle:** 2.0 +-1.0  
**Feather/High Angle:** 86.0 +-1.0  
**Cwt Angle:** Positive

### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u>               | <u>Item Number</u> | <u>Description</u>                        | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>  |
|--------------------------------|--------------------|---|-----------------|----------------|--|
| PROPELLER                      | B3N10578S          | HC-B3TN-3DY/T10178NB-5/C-3065P            | 2               | A/C            |  |
| BLADE                          | T10178B-5          | BLADE, 4E1188-5 BOOT                      | 3               | Prop           |  |
| BLADE                          | T10178NB-5         | PCP:BLADE UNIT, ALUMINUM                  | 3               | Prop           |  |
| SPINNER                        | C-3065-P           | SPINNER ASSEMBLY                          | 1               | Prop           |  |
| COUNTERWEIGHT SLUG A-3039      |                    | SLUG, COUNTERWEIGHT                       | 1               | Blade          |  |
| COUNTERWEIGHT SLUG A-890-6     |                    | PCP:SLUG, COUNTERWEIGHT                   | 1               | Blade          | Primary  |
| COUNTERWEIGHT SLUG A-890-8     |                    | PCP:SLUG, COUNTERWEIGHT                   | 1               | Blade          | Alternate  |
| COUNTERWEIGHT SLUG A-890-9     |                    | PCP:SLUG, COUNTERWEIGHT                   | 1               | Blade          | Alternate  |
| COUNTERWEIGHT SLUG B-3384-21H  |                    | BOLT, 1/4-28, HEX HEAD                    | 2               | Blade          |  |
| COUNTERWEIGHT SLUG B-3851-0432 |                    | WASHER                                    | 2               | Blade          | Optional   |
| COUNTERWEIGHT SLUG B-3851-0463 |                    | WASHER                                    | 2               | Blade          | Optional   |
| DE-ICER                        | 4H1188-5           | DE-ICE BOOT                               | 1               | Blade          | Supersedes 7931-4E1188-5                                   |
| DE-ICE KIT PR                  | 7931-65-090-1      | DE-ICE KIT (ONE PROP, W/ START-<br>LOCKS) | 1               | Prop           |  |
| MTG BOLT/STUD                  | B-3339             | BOLT, MOUNTING, 9/16-18, 12 POINT         | 8               | Prop           |  |
| OVERHAUL KIT                   | 65-090-1-OH        | DE-ICE O/H KIT, 4H1188-3 BOOT             | 1               | Prop           | For aftermarket use only(KIT FOR<br>PROP WITH START LOCKS) |
| OVERHAUL KIT                   | 65-090-1-OH*1      | DE-ICE O/H KIT, 4H1188-5 BOOT             | 1               | Prop           | For aftermarket use only(KIT FOR<br>PROP WITH START LOCKS) |

# HARTZELL

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**GRUMMAN (MCKINNON)**

**Model:** G21G  
**Trade Name:** GOOSE  
**Aircraft T.C./STC:** STC SA2809WE  
**Propeller Model:** HC-B3TN-5E  
**Propeller T.C.:** P15EA  
**Blade Model(s):** T10282NSB-6R  
 T10282SB-6R  
**Prop Diameter:** 94.0" MIN

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** UNKNOWN  
**Low Pitch Angle:** UNKNOWN  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type                      | Item Number  | Description                       | Quantity | Qty Per | Comments  |
|--------------------------------|--------------|-----------------------------------|----------|---------|-----------|
| BLADE                          | T10282NSB-6R | IDS ITEM, BLADE                   | 3        | Prop    |           |
| BLADE                          | T10282SB-6R  | IDS ITEM, BLADE                   | 3        | Prop    |           |
| SPINNER                        | C-3043-3     | SPINNER ASSEMBLY                  | 1        | Prop    |           |
| COUNTERWEIGHT SLUG A-3039      |              | SLUG, COUNTERWEIGHT               | 1        | Blade   |           |
| COUNTERWEIGHT SLUG A-890-6     |              | PCP:SLUG, COUNTERWEIGHT           | 1        | Blade   | Primary   |
| COUNTERWEIGHT SLUG A-890-8     |              | PCP:SLUG, COUNTERWEIGHT           | 1        | Blade   | Alternate |
| COUNTERWEIGHT SLUG A-890-9     |              | PCP:SLUG, COUNTERWEIGHT           | 1        | Blade   | Alternate |
| COUNTERWEIGHT SLUG B-3384-21H  |              | BOLT, 1/4-28, HEX HEAD            | 2        | Blade   |           |
| COUNTERWEIGHT SLUG B-3851-0432 |              | WASHER                            | 2        | Blade   | Optional  |
| COUNTERWEIGHT SLUG B-3851-0463 |              | WASHER                            | 2        | Blade   | Optional  |
| MTG BOLT/STUD                  | B-3339       | BOLT, MOUNTING, 9/16-18, 12 POINT | 8        | Prop    |           |

**IDS No.:** 569      **Rev.:** 3      **IC Date:** 01/27/2020

**Modifier:** MCKINNON ENTERPRISES  
**Engine Model:** TPE331-2UA  
**Power:** 715 HP @ 2000 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** UNKNOWN  
**Feather/High Angle:** UNKNOWN  
**Cwt Angle:** Unknown

**Non-HPI Governor:**

**GRUMMAN G-164**

**Model:** see SCHWEIZER  
**Trade Name:**  
**Aircraft T.C./STC:**  
**Propeller Model:**  
**Propeller T.C.:**  
**Blade Model(s):**  
**Prop Diameter:**

**Prop Setup:**

**Ref. Radius:**  
**Reverse Angle:**  
**Low Pitch Angle:**  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

**IDS No.:** 570      **Rev.:** -      **DM Date:** 10/01/1992

**Modifier:**  
**Engine Model:**  
**Power:** HP @ RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:**  
**Feather/High Angle:**  
**Cwt Angle:**

**Non-HPI Governor:**

# HARTZELL

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HAFEI AVIATION INDUSTRY CO.

IDS No.: 576 Rev.: - DM Date: 09/22/2006

Model: Y11-B  
Trade Name:  
Aircraft T.C./STC: Unknown  
Propeller Model: PHC-C3YF-2KUF  
Propeller T.C.: P25EA  
Blade Model(s): FC8468K-6R  
Prop Diameter: 80"

Modifier:  
Engine Model: TSIO-550-A1B  
Power: 350 HP @ 2700 RPM  
Placard/Restr:  
Notes:

### Prop Setup:

Ref. Radius: 30  
Reverse Angle: NA  
Low Pitch Angle: 13.0 +-0.1  
Stud Protrusion 1.450 +-0.030

Startlock Angle: 18.5 +-1.5  
Feather/High Angle: 82.1 +-1.0  
Cwt Angle:

### Non-HPI Items:

Non-HPI Spinner:

Non-HPI Governor:

### Hartzell Approved Items:

| Item Type     | Item Number | Description                   | Quantity | Qty Per | Comments                  |
|---------------|-------------|-------------------------------|----------|---------|---------------------------|
| BLADE         | FC8468K-6R  | PCP:BLADE UNIT,4H2271-10 BOOT | 3        | Prop    |                           |
| SPINNER       | C-4558-3    | SPINNER ASSEMBLY              | 1        | Prop    |                           |
| COUNTERWEIGHT | B-3202H-2   | PCP:COUNTERWEIGHT             | 1        | Blade   | Blade Component           |
| DE-ICER       | 4H2271-10   | DE-ICE BOOT                   | 1        | Blade   | Supercedes 7931-4E2271-10 |
| MTG BOLT/STUD | A-2429-4    | STUD, MOUNTING, 1/2-20        | 6        | Prop    |                           |

HAFEI AVIATION INDUSTRY CO.

IDS No.: 575 Rev.: - DM Date: 09/22/2006

Model: Y11-B1  
Trade Name:  
Aircraft T.C./STC: Unknown  
Propeller Model: PHC-C3YF-2KUF  
Propeller T.C.: P25EA  
Blade Model(s): FC8468K-6R  
Prop Diameter: 80"

Modifier:  
Engine Model: TSIO-550-A1B  
Power: 350 HP @ 2700 RPM  
Placard/Restr:  
Notes:

### Prop Setup:

Ref. Radius: 30  
Reverse Angle: NA  
Low Pitch Angle: 13.0 +-0.1  
Stud Protrusion 1.450 +-0.030

Startlock Angle: 18.5 +-1.5  
Feather/High Angle: 82.1 +-1.0  
Cwt Angle:

### Non-HPI Items:

Non-HPI Spinner:

Non-HPI Governor:

### Hartzell Approved Items:

| Item Type     | Item Number | Description                   | Quantity | Qty Per | Comments                  |
|---------------|-------------|-------------------------------|----------|---------|---------------------------|
| BLADE         | FC8468K-6R  | PCP:BLADE UNIT,4H2271-10 BOOT | 3        | Prop    |                           |
| SPINNER       | C-4558-3    | SPINNER ASSEMBLY              | 1        | Prop    |                           |
| COUNTERWEIGHT | B-3202H-2   | PCP:COUNTERWEIGHT             | 1        | Blade   | Blade Component           |
| DE-ICER       | 4H2271-10   | DE-ICE BOOT                   | 1        | Blade   | Supersedes 7931-4E2271-10 |
| MTG BOLT/STUD | A-2429-4    | STUD, MOUNTING, 1/2-20        | 6        | Prop    |                           |

# HARTZELL

## APPLICATION GUIDE

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HAFEI AVIATION INDUSTRY CO.

IDS No.: 1157      Rev.: 4      IC      Date: 07/15/2015

**Model:** Y12 IV

**Trade Name:**

**Aircraft T.C./STC:** A00006WI

**Propeller Model:** HC-B3TN-3B

**Propeller T.C.:** P15EA

**Blade Model(s):** T10173-3  
T10173B-3  
T10173N-3  
T10173NB-3

**Prop Diameter:** 97" Minimum

### Prop Setup:

**Ref. Radius:** 30

**Reverse Angle:** -14.0 +-1.0

**Low Pitch Angle:** 18.5 +-0.1

**Stud Protrusion**

**Modifier:**

**Engine Model:** PT6A-27

**Power:** 620 HP @ 2120 RPM

**Placard/Restr:** The aircraft minimum gross weight is 7385 lbs.

**Notes:** Low pitch angle is approximate. Refer to aircraft maintenance instructions for torque and RPM requirements.

**Startlock Angle:** NA

**Feather/High Angle:** 87.0 +-0.5

**Cwt Angle:** -1.5 TO POS.

### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u>               | <u>Item Number</u> | <u>Description</u>                | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>                                 |
|--------------------------------|--------------------|-----------------------------------|-----------------|----------------|---|
| PROPELLER                      | B3N10125           | HC-B3TN-3B/T10173N-3              | 2               | A/C            |   |
| PROPELLER                      | B3N10125KD         | HC-B3TN-3B/T10173N-3              | 2               | A/C            |   |
| PROPELLER                      | B3N10126           | HC-B3TN-3B/T10173NB-3/DE-ICE      | 2               | A/C            |   |
| PROPELLER                      | B3N10127           | HC-B3TN-3B/T10173NB-3/BULK/DEI    | 2               | A/C            |   |
| PROPELLER                      | B3N10127KD         | HC-B3TN-3B/T10173NB-3/BULK/DEI    | 2               | A/C            |   |
| PROPELLER                      | B3N10127SKD        | HC-B3TN-3B/T10173NB-3/C-3065-1P   | 2               | A/C            |   |
| PROPELLER                      | B3N10128           | HC-B3TN-3B/T10173NB-3/BULK/DEI    | 2               | A/C            |   |
| PROPELLER                      | B3N10128KD         | HC-B3TN-3B/T10173NB-3/BULK/DEI    | 2               | A/C            |   |
| BLADE                          | T10173-3           | BLADE                             | 3               | Prop           |   |
| BLADE                          | T10173B-3          | BLADE, 4E1188-5 BOOT              | 3               | Prop           |   |
| BLADE                          | T10173N-3          | PCP:BLADE UNIT, ALUMINUM          | 3               | Prop           |   |
| BLADE                          | T10173NB-3         | PCP:BLADE UNIT, ALUMINUM          | 3               | Prop           |   |
| SPINNER                        | C-3065-1           | SPINNER ASSEMBLY                  | 1               | Prop           |   |
| SPINNER                        | C-3065-1P          | SPINNER ASSEMBLY                  | 1               | Prop           |   |
| SPIN MTG KIT                   | B-3384-4H          | BOLT, 1/4-28, HEX HEAD            | 12              | Prop           |   |
| SPIN MTG KIT                   | B-3851-0432        | WASHER                            | 24              | Prop           |   |
| SP MT KIT DE-ICE               | A-2070-7           | SCREW, 1/4-28, BUTTON HEAD        | 12              | Prop           |   |
| SP MT KIT DE-ICE               | B-3808-4           | NUT, HEX, SELF-LOCKING            | 12              | Prop           |   |
| SP MT KIT DE-ICE               | B-3837-0432        | WASHER, CORROSION RESISTANT       | 12              | Prop           |   |
| SP MT KIT DE-ICE               | B-7077-52          | BELLEVILLE SPRING WASHER          | 12              | Prop           |   |
| COUNTERWEIGHT SLUG A-3039      |                    | SLUG, COUNTERWEIGHT               | 1               | Blade          |   |
| COUNTERWEIGHT SLUG A-890-8     |                    | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          |   |
| COUNTERWEIGHT SLUG B-3384-18H  |                    | BOLT, 1/4-28, HEX HEAD            | 2               | Blade          |   |
| COUNTERWEIGHT SLUG B-3851-0432 |                    | WASHER                            | 2               | Blade          | Optional  |
| COUNTERWEIGHT SLUG B-3851-0463 |                    | WASHER                            | 2               | Blade          | Optional  |
| DE-ICER                        | 4H1188-5           | DE-ICE BOOT                       | 1               | Blade          | Supersedes 7931-4E1188-5                        |
| DE-ICE KIT PR                  | 7931-65-530-1      | DE-ICE KIT (ONE PROP)             | 1               | Prop           |   |
| MTG BOLT/STUD                  | B-3339             | BOLT, MOUNTING, 9/16-18, 12 POINT | 8               | Prop           |   |
| OVERHAUL KIT                   | HC-B3TN-3B-OH      | O/H KIT                           | 1               | Prop           | For aftermarket use only (ALSO REPLACES A-2741) |

# HARTZELL

## APPLICATION GUIDE 159

HAFEI AVIATION INDUSTRY CO.

IDS No.: 1431 Rev.: 3 IC Date: 07/14/2020

**Model:** Y12 IV

**Trade Name:**

**Aircraft T.C./STC:** Unknown

**Propeller Model:** HC-D4N-3N

**Propeller T.C.:** P10NE

**Modifier:**

**Engine Model:** PT6A-27

**Power:** 620 HP @ 2200 RPM

**Placard/Restr:** Avoid stabilized ground operation between 400 and 1056 RPM. The propeller may be operated at or below 400 RPM when feathered.

**Blade Model(s):** D9511FK

**Prop Diameter:** 96" TO 95"

**Notes:** Unapproved installation

**Prop Setup:**

**Ref. Radius:** 30

**Reverse Angle:** -10.0 +- 0.5

**Low Pitch Angle:** 20.0 +-0.1

**Stud Protrusion**

**Startlock Angle:** NA

**Feather/High Angle:** 86.1 +- 0.5

**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>             | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>           |
|------------------|--------------------|--------------------------------|-----------------|----------------|---------------------------|
| PROPELLER        | D4N00185           | HC-D4N-3N/D9511FK              | 2               | A/C            |                           |
| BLADE            | D9511FK            | PCP:BLADE UNIT,ALUM 4H2271-12  | 4               | Prop           |                           |
| SPINNER          | D-630-P            | SPINNER ASSEMBLY               | 1               | Prop           |                           |
| COUNTERWEIGHT    | C-472-1            | PCP:COUNTERWEIGHT              | 1               | Blade          |                           |
| DE-ICER          | 4H2271-12          | DE-ICE BOOT                    | 1               | Blade          | Supersedes 7931-4E2271-12 |
| DE-ICE KIT PR    | 106299             | DE-ICE KIT (ONE PROP)          | 1               | Prop           | Supersedes 7931-67-835-1  |
| DE-ICE KIT PR    | 7931-67-835-1      | DE-ICE KIT (ONE PROP)          | 1               | Prop           | Superseded by 106299      |
| MTG BOLT/STUD    | B-3339-1           | BOLT,MOUNTING,9/16-18,12 POINT | 8               | Prop           |                           |
| OVERHAUL KIT     | HC-D4N-3N-OH       | O/H KIT                        | 1               | Prop           | Aftermarket use only      |

# HARTZELL

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HAFEI AVIATION INDUSTRY CO.

IDS No.: 1795 Rev.: 1 IC Date: 08/13/2015

Model: Y12E

Trade Name:

Aircraft T.C./STC: A00006WI

Propeller Model: HC-D4N-3N

Propeller T.C.: P10NE

Modifier:

Engine Model: PT6A-135A

Power: 620 HP @ 1900 RPM

Placard/Restr: Stabilized ground operation is prohibited between 400 and 1050 propeller RPM. The propeller may be operated at or below 400 RPM when feathered.

Blade Model(s): D9511FK

Prop Diameter: 96" TO 95"

Notes: Low pitch angle is approximate. Refer to aircraft maintenance instructions for torque and RPM requirements.

### Prop Setup:

Ref. Radius: 30

Reverse Angle: -10.0 +- 0.5

Low Pitch Angle: 18.5 +-0.1

Stud Protrusion

Startlock Angle: NA

Feather/High Angle: 86.1 +- 0.5

Cwt Angle:

### Non-HPI Items:

Non-HPI Spinner:

Non-HPI Governor:

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>             | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>           |
|------------------|--------------------|--------------------------------|-----------------|----------------|---------------------------|
| PROPELLER        | D4N00186S          | HC-D4N-3N/D9511FK/D-630-P      | 2               | A/C            |                           |
| PROPELLER        | D4N00186SKD        | HC-D4N-3N/D9511FK/D-630-P      | 2               | A/C            |                           |
| BLADE            | D9511FK            | PCP:BLADE UNIT,ALUM 4H2271-12  | 4               | Prop           |                           |
| SPINNER          | D-630-P            | SPINNER ASSEMBLY               | 1               | Prop           |                           |
| COUNTERWEIGHT    | C-472-1            | PCP:COUNTERWEIGHT              | 1               | Blade          |                           |
| DE-ICER          | 4H2271-12          | DE-ICE BOOT                    | 1               | Blade          | Supersedes 7931-4E2271-12 |
| DE-ICE KIT PR    | 106299             | DE-ICE KIT (ONE PROP)          | 1               | Prop           | Supersedes 7931-67-835-1  |
| DE-ICE KIT PR    | 7931-67-835-1      | DE-ICE KIT (ONE PROP)          | 1               | Prop           | Superseded by 106299      |
| DE-ICE KIT A/F   | 7931-67-835-2      | AIRFRAME DE-ICE KIT            | 1               | A/C            |                           |
| MTG BOLT/STUD    | B-3339-1           | BOLT,MOUNTING,9/16-18,12 POINT | 8               | Prop           |                           |



# HARTZELL

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HAFEI AVIATION INDUSTRY CO.

IDS No.: 2585 Rev.: 5 IC Date: 07/14/2020

Model: Y12F  
Trade Name:  
Aircraft T.C./STC: UNKNOWN/CHINA  
Propeller Model: HC-B5MP-3D  
Propeller T.C.: P44GL

Modifier:  
Engine Model: PT6A-65B  
Power: 1100 HP @ 1700 RPM  
Placard/Restr: Avoid stabilized ground operation between 400 and 900 RPM and between 1170 and 1400 RPM. Governor must be capable of maintaining 1170 RPM or below.

Blade Model(s): M10876ANS  
M10876ANSK\*5

Notes:

Prop Diameter: 111.2

### Prop Setup:

Ref. Radius: 42  
Reverse Angle: -11.0 +/-0.5  
Low Pitch Angle: 14.5 +/- 0.1

Startlock Angle:  
Feather/High Angle: 80.5 +/-0.5  
Cwt Angle: POSITIVE

Stud Protrusion

### Non-HPI Items:

Non-HPI Spinner:

Non-HPI Governor:

### Hartzell Approved Items:

| Item Type          | Item Number   | Description                       | Quantity | Qty Per | Comments                 |
|--------------------|---------------|-----------------------------------|----------|---------|--------------------------|
| PROPELLER          | B5P10205      | HC-B5MP-3D/M10876ANSK[*5]/BULK    | 2        | A/C     |                          |
| PROPELLER          | B5P10205KD    | HC-B5MP-3D/M10876ANSK[*5]/BULK    | 2        | A/C     |                          |
| PROPELLER          | B5P10205S     | HC-B5MP-3D/M10876ANSK[*5]/SPIN    | 0        |         |                          |
| PROPELLER          | B5P10205SKD   | HC-B5MP-3D/M10876ANSK[*5]/SPIN    | 0        |         |                          |
| BLADE              | M10876ANS     | PCP:BLADE UNIT, ALUMINUM          | 5        | Prop    |                          |
| BLADE              | M10876ANSK*5  | PCP:BLADE UNIT, ALUM, 102338      | 5        | Prop    |                          |
| SPINNER            | D-3434-8P     | SPINNER ASSEMBLY                  | 1        | Prop    |                          |
| SP MT KIT DE-ICE   | B-3384-8H     | BOLT, 1/4-28, HEX HEAD            | 10       | Prop    |                          |
| SP MT KIT DE-ICE   | B-3808-4      | NUT, HEX, SELF-LOCKING            | 10       | Prop    |                          |
| SP MT KIT DE-ICE   | B-3837-0432   | WASHER, CORROSION RESISTANT       | 10       | Prop    |                          |
| SP MT KIT DE-ICE   | B-7077-52     | BELLEVILLE SPRING WASHER          | 10       | Prop    |                          |
| COUNTERWEIGHT SLUG | B-3386-14H    | BOLT, 3/8-24, HEX HEAD            | 2        | Blade   |                          |
| COUNTERWEIGHT SLUG | B-3834-0632   | WASHER                            | 2        | Blade   |                          |
| COUNTERWEIGHT SLUG | B-7222        | PCP:SLUG, COUNTERWEIGHT           | 1        | Blade   |                          |
| DE-ICER            | 102338        | DE-ICE BOOT                       | 1        | Blade   |                          |
| DE-ICE KIT PR      | 102195-1      | DE-ICE KIT (ONE PROP)             | 1        | Prop    |                          |
| DE-ICE KIT A/F     | 102195-2      | AIRFRAME DE-ICE KIT               | 1        | A/C     |                          |
| MTG BOLT/STUD      | B-3339        | BOLT, MOUNTING, 9/16-18, 12 POINT | 8        | Prop    |                          |
| OVERHAUL KIT       | HC-B5MP-3D-OH | O/H KIT                           | 1        | Prop    | For aftermarket use only |

# HARTZELL

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### HANDLEY PAGE

**Model:** see BAE JETSTREAM

**Trade Name:**

**Aircraft T.C./STC:**

**Propeller Model:**

**Propeller T.C.:**

**Blade Model(s):**

**Prop Diameter:**

#### Prop Setup:

**Ref. Radius:**

**Reverse Angle:**

**Low Pitch Angle:**

**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

#### Hartzell Approved Items:

**IDS No.:** 133

**Rev.:** -

**DM Date:** 10/01/1992

**Modifier:**

**Engine Model:**

**Power:** HP @ RPM

**Placard/Restr:**

**Notes:**

**Startlock Angle:**

**Feather/High Angle:**

**Cwt Angle:**

**Non-HPI Governor:**

### HARMON

**Model:** HARMON ROCKET

**Trade Name:**

**Aircraft T.C./STC:** Experimental

**Propeller Model:** HC-M2YR-1BF

**Propeller T.C.:** P43GL

**Blade Model(s):** F8475J-4

F8475J-4\*1

**Prop Diameter:** 80"-78"

#### Prop Setup:

**Ref. Radius:** 30

**Reverse Angle:** NA

**Low Pitch Angle:** 13.2 +-0.1

**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

#### Hartzell Approved Items:

**IDS No.:** 1506

**Rev.:** 1

**IC Date:** 07/07/2015

**Modifier:**

**Engine Model:** IO-540-C4B5

**Power:** 250 HP @ 2575 RPM

**Placard/Restr:**

**Notes:**

**Startlock Angle:** NA

**Feather/High Angle:** 38.0 +-1.0

**Cwt Angle:**

**Non-HPI Governor:**

| Item Type     | Item Number    | Description                   | Quantity | Qty Per | Comments                       |
|---------------|----------------|-------------------------------|----------|---------|--------------------------------|
| PROPELLER     | M2R00043       | HC-M2YR-1BF/F8475J-4[*1]/SM32 | 1        | A/C     |                                |
| PROPELLER     | M2R00044       | HC-M2YR-1BF/F8475J-4/SM32     | 1        | A/C     |                                |
| BLADE         | F8475J-4       | PCP:BLADE UNIT, ALUM [1,1,1]  | 2        | Prop    |                                |
| BLADE         | F8475J-4*1     | PCP:BLADE UNIT, ALUM [3,1,1]  | 2        | Prop    |                                |
| SPINNER       | C-3533         | SPINNER ASSEMBLY              | 1        | Prop    |                                |
| SPINNER       | C-3533-P       | SPINNER ASSEMBLY              | 1        | Prop    |                                |
| GOVERNOR      | S-1-13         | GOVERNOR ASSEMBLY, S-1-13     | 1        | A/C     |                                |
| GOVERNOR      | V3-3           | GOVERNOR ASSEMBLY, V-3-(-)    | 1        | A/C     | Wide Deck                      |
| GOVERNOR      | V3-7           | GOVERNOR ASSEMBLY, V-3-(-)    | 1        | A/C     | Narr deck non "A" eng S/N sufx |
| SPIN MTG KIT  | A-2476-32      | SPINNER - MTG KIT             | 1        | Prop    |                                |
| MTG BOLT/STUD | A-2067         | STUD, MOUNTING, 1/2-20        | 6        | Prop    |                                |
| OVERHAUL KIT  | HC-M2YR-1BF-OH | O/H KIT                       | 1        | Prop    | For aftermarket use only       |

# HARTZELL

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HARMON

IDS No.: 1070      Rev.: 1      IC      Date: 07/07/2015

**Model:** HARMON ROCKET

**Trade Name:**

**Aircraft T.C./STC:** Experimental

**Propeller Model:** HC-M2YR-1BF

**Propeller T.C.:** P43GL

**Blade Model(s):** F8475D-2

F8475D-4

F8475D-4\*1

F8475D-4\*2

**Prop Diameter:** 82" TO 80"

**Prop Setup:**

**Ref. Radius:** 30

**Reverse Angle:** NA

**Low Pitch Angle:** 13.2 +-0.1

**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Modifier:**

**Engine Model:** IO-540-C4B5

**Power:** 250 HP @ 2575 RPM

**Placard/Restr:**

**Notes:**

**Startlock Angle:** NA

**Feather/High Angle:** 38.0 +-1.0

**Cwt Angle:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>            | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>                |
|------------------|--------------------|-------------------------------|-----------------|----------------|--------------------------------|
| PROPELLER        | M2R00046           | HC-M2YR-1BF/F8475D-4/SM32     | 1               | A/C            |                                |
| PROPELLER        | M2R00047           | HC-M2YR-1BF/F8475D-4[*1]/SM32 | 1               | A/C            |                                |
| PROPELLER        | M2R00048           | HC-M2YR-1BF/F8475D-2/SM32     | 1               | A/C            |                                |
| PROPELLER        | M2R00049           | HC-M2YR-1BF/F8475D-4[*2]/SM32 | 1               | A/C            |                                |
| BLADE            | F8475D-2           | PCP:BLADE UNIT, ALUM [1,1,1]  | 2               | Prop           |                                |
| BLADE            | F8475D-4           | PCP:BLADE UNIT, ALUM [1,1,1]  | 2               | Prop           |                                |
| BLADE            | F8475D-4*1         | PCP:BLADE UNIT, [3,1,1]       | 2               | Prop           |                                |
| BLADE            | F8475D-4*2         | PCP:BLADE UNIT, ALUM [3,5,1]  | 2               | Prop           |                                |
| SPINNER          | C-3533             | SPINNER ASSEMBLY              | 1               | Prop           |                                |
| SPINNER          | C-3533-P           | SPINNER ASSEMBLY              | 1               | Prop           |                                |
| GOVERNOR         | S-1-13             | GOVERNOR ASSEMBLY, S-1-13     | 1               | A/C            |                                |
| GOVERNOR         | V3-3               | GOVERNOR ASSEMBLY, V-3-( )    | 1               | A/C            | Wide Deck                      |
| GOVERNOR         | V3-7               | GOVERNOR ASSEMBLY, V-3-( )    | 1               | A/C            | Narr deck non "A" eng S/N sufx |
| SPIN MTG KIT     | A-2476-32          | SPINNER - MTG KIT             | 1               | Prop           |                                |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20        | 6               | Prop           |                                |
| OVERHAUL KIT     | HC-M2YR-1BF-OH     | O/H KIT                       | 1               | Prop           | For aftermarket use only       |

# HARTZELL

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**HAWKER BEECHCRAFT**

**Model:** 36, A36, F33A, V35, V35A, V35B  
**Trade Name:** Bonanza  
**Aircraft T.C./STC:** SA8676SW  
**Propeller Model:** PHC-C3YF-1RF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** F8068  
**Prop Diameter:** 82" to 78"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** 12.0 +/- 0.2  
**Stud Protrusion** 1.450 +-0.030

**Non-HPI Items:**

**Non-HPI Spinner:**

**IDS No.:** 3188      **Rev.:** 1      **IC Date:** 07/16/2015

**Modifier:** Western Skyways  
**Engine Model:** IO-520-B,-BA,-BB  
**Power:** 285 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:**  
**Feather/High Angle:** 35.5 +/- 1.0  
**Cwt Angle:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>           | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>  |
|------------------|--------------------|------------------------------|-----------------|----------------|--|
| PROPELLER        | C3F01900           | PHC-C3YF-1RF/F8068/SM7       | 1               | A/C            |  |
| BLADE            | F8068              | PCP:BLADE UNIT, ALUM [1,1,5] | 3               | Prop           | Blade, included with propeller                               |
| SPINNER          | A-2295-1           | SPINNER ASSEMBLY             | 1               | Prop           | Buffed spinner (surface suitable for paint, sold separately) |
| SPINNER          | A-2295-1P          | SPINNER ASSEMBLY             | 1               | Prop           | Polished spinner, sold separately                            |
| SPIN MTG KIT     | A-2476-7           | SPINNER - MTG KIT            | 1               | Prop           | Included with propeller                                      |
| MTG BOLT/STUD    | A-2429-4           | STUD, MOUNTING, 1/2-20       | 6               | Prop           | Use with E-7154-2R hub only                                  |
| MTG BOLT/STUD    | A-2429-7           | STUD, MOUNTING, 1/2-20       | 6               | Prop           | Use with E-7154-12R & E-7154-42R hubs only                   |
| OVERHAUL KIT     | PHC-C3YF-1RF*1     | O/H KIT W/O SLIMSERTS        | 1               | Prop           | For aftermarket use only                                     |
| OVERHAUL KIT     | PHC-C3YF-1RF-OH    | O/H KIT                      | 1               | Prop           | For aftermarket use only                                     |

# HARTZELL

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**HAWKER BEECHCRAFT**

**IDS No.:** 3056      **Rev.:** 4      **IC Date:** 07/15/2015

**Model:** 95-55, 95-(A)(B)55, 95-B55A, 95-B55B  
**Trade Name:** Baron  
**Aircraft T.C./STC:** STC-SA02561CH-D  
**Propeller Model:** **PHC-C3YF-2UF**  
**Propeller T.C.:** P25EA  
**Blade Model(s):** FC7391DB\*1  
**Prop Diameter:** 75" to 73.5"

**Modifier:** Hartzell Propeller  
**Engine Model:** IO-470-L  
**Power:** 260 HP @ 2625 RPM  
**Placard/Restr:**  
**Notes:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** N/A  
**Low Pitch Angle:** 12.0 +- 0.2  
**Stud Protrusion** 1.450+- .030

**Startlock Angle:** 18.5 +- 1.0  
**Feather/High Angle:** 80 +- 0.5  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>            | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>             |
|------------------|--------------------|-------------------------------|-----------------|----------------|-----------------------------|
| PROPELLER        | C3F00166           | PHC-C3YF-2UF/FC7391DB[*1]/SM9 | 2               | A/C            |                             |
| PROPELLER        | C3F00166KD         | PHC-C3YF-2UF/FC7391DB[*1]/SM9 | 2               | A/C            |                             |
| BLADE            | FC7391DB*1         | PCP:BLADE UNIT, C-2131-3      | 3               | Prop           |                             |
| SPINNER          | C-3567-9           | SPINNER ASSEMBLY              | 1               | Prop           |                             |
| SPINNER          | C-3567-9P          | SPINNER ASSEMBLY              | 1               | Prop           |                             |
| SPIN MTG KIT     | A-2476-9           | SPINNER - MTG KIT             | 1               | Prop           |                             |
| COUNTERWEIGHT    | B-3202H-1          | PCP:COUNTERWEIGHT             | 1               | Blade          | Included with blade         |
| DE-ICER          | C-2131-3           | BOOT, ANTI-ICING              | 1               | Blade          |                             |
| DE-ICE KIT PR    | 103313             | ANTI-ICE KIT (ONE PROP)       | 1               | Prop           |                             |
| MTG BOLT/STUD    | A-2429-4           | STUD, MOUNTING, 1/2-20        | 6               | Prop           | USE WITH E-7167-2 HUB ONLY  |
| MTG BOLT/STUD    | A-2429-7           | STUD, MOUNTING, 1/2-20        | 6               | Prop           | USE WITH E-7167-12 HUB ONLY |
| OVERHAUL KIT     | PHC-C3YF-2UF*1     | O/H KIT W/O SLIMSERTS         | 1               | Prop           | For aftermarket use only    |
| OVERHAUL KIT     | PHC-C3YF-2UF-OH    | O/H KIT                       | 1               | Prop           | For aftermarket use only    |

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### HAWKER BEECHCRAFT

**Model:** E55  
**Trade Name:** BARON  
**Aircraft T.C./STC:** STC-SA02561CH-D  
**Propeller Model:** PHC-J3YF-2UF  
**Propeller T.C.:** P36EA  
**Blade Model(s):** FC7391D  
**Prop Diameter:** 75"- 73.5"

**IDS No.:** 3058      **Rev.:** 3      **IC Date:** 07/15/2015

**Modifier:** HARTZELL PROPELLER  
**Engine Model:** IO-520-C, -CB  
**Power:** 285 HP @ 2700 RPM  
**Placard/Restr:**

**Notes:** For E55's with factory air conditioning only.  
 Not Available with de-ice/anti-ice.

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** 12.8 +/- 0.2  
**Stud Protrusion** 1.450+-0.030

**Startlock Angle:** 18.5 +/- 1.0  
**Feather/High Angle:** 80.0 +/- 0.5  
**Cwt Angle:**

#### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:**

#### Hartzell Approved Items:

| Item Type     | Item Number     | Description                  | Quantity | Qty Per | Comments                 |
|---------------|-----------------|------------------------------|----------|---------|--------------------------|
| PROPELLER     | J3F00116        | PHC-J3YF-2UF/FC7391D/SM17    | 2        | A/C     |                          |
| PROPELLER     | J3F00116KD      | PHC-J3YF-2UF/FC7391D/SM17    | 2        | A/C     |                          |
| BLADE         | FC7391D         | PCP:BLADE UNIT, ALUM [6,1,5] | 3        | Prop    |                          |
| SPINNER       | C-3567-4P       | SPINNER ASSEMBLY             | 1        | Prop    |                          |
| SPIN MTG KIT  | A-2476-17       | SPINNER - MTG KIT            | 1        | Prop    |                          |
| COUNTERWEIGHT | B-3202H-1       | PCP:COUNTERWEIGHT            | 1        | Blade   |                          |
| MTG BOLT/STUD | A-2429-4        | STUD, MOUNTING, 1/2-20       | 6        | Prop    |                          |
| OVERHAUL KIT  | PHC-J3YF-2UF-OH | O/H KIT                      | 1        | Prop    | For aftermarket use only |

### HAWKER BEECHCRAFT

**Model:** YT-34, T-34A, T34B  
**Trade Name:** MENTOR  
**Aircraft T.C./STC:** SA03069CH  
**Propeller Model:** HC-C3YF-1RF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** F8468A-6R  
**Prop Diameter:** 80"-78"

**IDS No.:** 3157      **Rev.:** 1      **IC Date:** 07/16/2015

**Modifier:** Aircraft Products Systems  
**Engine Model:** IO-520-B, -BA, - BB  
**Power:** 285 HP @ 2700 RPM  
**Placard/Restr:**

**Notes:** Notes:Optional engine model: IO-550-B  
 rated 300 HP at 2700 RPM

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** 13.0 +/- 0.1  
**Stud Protrusion** 1.450 +/- 0.030

**Startlock Angle:**  
**Feather/High Angle:** 36.0 +/- 1.0  
**Cwt Angle:**

#### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:**

#### Hartzell Approved Items:

| Item Type     | Item Number    | Description                  | Quantity | Qty Per | Comments                 |
|---------------|----------------|------------------------------|----------|---------|--------------------------|
| PROPELLER     | C3F00048       | HC-C3YF-1RF/F8468A-6R/SM7    | 1        | A/C     |                          |
| BLADE         | F8468A-6R      | PCP:BLADE UNIT, ALUM [1,1,1] | 3        | Prop    |                          |
| SPINNER       | A-2295-1       | SPINNER ASSEMBLY             | 1        | Prop    |                          |
| SPINNER       | A-2295-1P      | SPINNER ASSEMBLY             | 1        | Prop    |                          |
| GOVERNOR      | S-1-38         | GOVERNOR ASSEMBLY, S-1-38    | 1        | A/C     |                          |
| SPIN MTG KIT  | A-2476-7       | SPINNER - MTG KIT            | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2429-4       | STUD, MOUNTING, 1/2-20       | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-C3YF-1RF-OH | O/H KIT                      | 1        | Prop    | For aftermarket use only |

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### HAWKER BEECHCRAFT

**Model:** 95-C55, 95-D55, E55  
**Trade Name:** BARON  
**Aircraft T.C./STC:** STC-SA02561CH-D  
**Propeller Model:** PHC-C3YF-2UF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** FC7391D  
 FC7391DB\*1  
**Prop Diameter:** 75" to 73.5"

**IDS No.:** 3057      **Rev.:** 3      **IC Date:** 07/15/2015

**Modifier:** Hartzell Propeller Inc.  
**Engine Model:** IO-520-C, -CB  
**Power:** 285 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** 12.8 +-0.2  
**Stud Protrusion** 1.450+- .030

**Startlock Angle:** 18.5 +- 1.0  
**Feather/High Angle:** 80.0 +- 0.5  
**Cwt Angle:**

#### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:**

#### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>            | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>                  |
|------------------|--------------------|-------------------------------|-----------------|----------------|----------------------------------|
| PROPELLER        | C3F00161           | PHC-C3YF-2UF/FC7391D/SM9      | 2               | A/C            |                                  |
| PROPELLER        | C3F00161KD         | PHC-C3YF-2UF/FC7391D/SM9      | 2               | A/C            |                                  |
| PROPELLER        | C3F00167           | PHC-C3YF-2UF/FC7391DB[*1]/SM9 | 2               | A/C            | Prop incl. blades with boot only |
| PROPELLER        | C3F00167KD         | PHC-C3YF-2UF/FC7391DB[*1]/SM9 | 2               | A/C            | Prop incl. blades with boot only |
| BLADE            | FC7391D            | PCP:BLADE UNIT, ALUM [6,1,5]  | 3               | Prop           | IO-520 pitch stops               |
| BLADE            | FC7391DB*1         | PCP:BLADE UNIT, C-2131-3      | 3               | Prop           |                                  |
| SPINNER          | C-3567-1           | SPINNER ASSEMBLY              | 1               | Prop           |                                  |
| SPINNER          | C-3567-1P          | SPINNER ASSEMBLY              | 1               | Prop           |                                  |
| SPINNER          | C-3567-9           | SPINNER ASSEMBLY              | 1               | Prop           | Eligible with anti-ice only      |
| SPINNER          | C-3567-9P          | SPINNER ASSEMBLY              | 1               | Prop           | Eligible with anti-ice only      |
| SPIN MTG KIT     | A-2476-9           | SPINNER - MTG KIT             | 1               | Prop           |                                  |
| COUNTERWEIGHT    | B-3202H-1          | PCP:COUNTERWEIGHT             | 1               | Blade          |                                  |
| DE-ICER          | C-2131-3           | BOOT, ANTI-ICING              | 1               | Blade          |                                  |
| DE-ICE KIT PR    | 103313             | ANTI-ICE KIT (ONE PROP)       | 1               | Prop           |                                  |
| MTG BOLT/STUD    | A-2429-4           | STUD, MOUNTING, 1/2-20        | 6               | Prop           | Use with E-7167-2 hub only       |
| MTG BOLT/STUD    | A-2429-7           | STUD, MOUNTING, 1/2-20        | 6               | Prop           | Use with E-7167-12 hub only      |
| OVERHAUL KIT     | PHC-C3YF-2UF*1     | O/H KIT W/O SLIMSERTS         | 1               | Prop           | For aftermarket use only         |
| OVERHAUL KIT     | PHC-C3YF-2UF-OH    | O/H KIT                       | 1               | Prop           | For aftermarket use only         |

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**HAWKER BEECHCRAFT**

**Model:** 95-C55, D55, E55  
**Trade Name:** Baron  
**Aircraft T.C./STC:** SA3845SW  
**Propeller Model:** PHC-C3YF-2UF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** FC7391D  
**Prop Diameter:** 75" to 73.5"

**IDS No.:** 3113      **Rev.:** 1      **IC Date:** 07/15/2015

**Modifier:** D'Shannon  
**Engine Model:** IO-520-C, -CB  
**Power:** 285 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** 12.8 +/- 0.2  
**Stud Protrusion** 1.450 +/- 0.030

**Startlock Angle:** 18.5 +/- 1.0  
**Feather/High Angle:** 80.0 +/- 1.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>           | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>                       |
|------------------|--------------------|------------------------------|-----------------|----------------|---------------------------------------|
| PROPELLER        | C3F00161           | PHC-C3YF-2UF/FC7391D/SM9     | 2               | A/C            |                                       |
| PROPELLER        | C3F00161KD         | PHC-C3YF-2UF/FC7391D/SM9     | 2               | A/C            |                                       |
| BLADE            | FC7391D            | PCP:BLADE UNIT, ALUM [6,1,5] | 3               | Prop           |                                       |
| SPINNER          | C-3567-1           | SPINNER ASSEMBLY             | 1               | Prop           | Unpolished spinner suitable for paint |
| SPINNER          | C-3567-1P          | SPINNER ASSEMBLY             | 1               | Prop           | Polished spinner                      |
| SPIN MTG KIT     | A-2476-9           | SPINNER - MTG KIT            | 1               | Prop           |                                       |
| COUNTERWEIGHT    | B-3202H-1          | PCP:COUNTERWEIGHT            | 1               | Blade          |                                       |
| MTG BOLT/STUD    | A-2429-4           | STUD, MOUNTING, 1/2-20       | 6               | Prop           | Use with E-7167-2 hub only            |
| MTG BOLT/STUD    | A-2429-7           | STUD, MOUNTING, 1/2-20       | 6               | Prop           | Use with E-7167-12 hub only           |
| OVERHAUL KIT     | PHC-C3YF-2UF*1     | O/H KIT W/O SLIMSERTS        | 1               | Prop           | For aftermarket use only              |
| OVERHAUL KIT     | PHC-C3YF-2UF-OH    | O/H KIT                      | 1               | Prop           | For aftermarket use only              |



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**HAWKER BEECHCRAFT**

**IDS No.:** 3203      **Rev.:** 9      **IC Date:** 01/04/2022

**Model:** 200, B200  
**Trade Name:** Raisbeck King Air  
**Aircraft T.C./STC:** SA2698NM-S  
**Propeller Model:** HC-D4N-3A  
**Propeller T.C.:** P10NE

**Modifier:** Raisbeck  
**Engine Model:** PT6A-41, -42, -52, -61  
**Power:** 850 HP @ 2000 RPM  
**Placard/Restr:** Stabilized ground operation is prohibited between 450 and 1150 RPM. The propeller may be operated when feathered at or below 450 RPM.

**Blade Model(s):** D9515K  
 D9515K\*1  
 D9515K\*2

**Notes:**

**Prop Diameter:** 96"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** -10.3 +-0.5  
**Low Pitch Angle:** 18.3 +-0.1  
**Stud Protrusion**

**Startlock Angle:** n/a  
**Feather/High Angle:** 84.2 +-0.5  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type        | Item Number | Description                    | Quantity | Qty Per | Comments  |
|------------------|-------------|--------------------------------|----------|---------|---|
| PROPELLER        | D4N00136    | HC-D4N-3A/D9515K/BULKHEAD      | 2        | A/C     | Fully assembled prop including spinner bulkhead, no spinner dome, no dome screws/washers            |
| PROPELLER        | D4N00136KD  | HC-D4N-3A/D9515K/BULKHEAD      | 2        | A/C     | Prop, dis-assembled for shipping, includes spinner bulkhead, no spinner dome or dome screws/washers |
| PROPELLER        | D4N00136S   | HC-D4N-3A/D9515K/D-630-7P      | 2        | A/C     | Assembled prop with spinner (spinner packed separately)   |
| PROPELLER        | D4N00136SKD | HC-D4N-3A/D9515K/D-630-7P      | 2        | A/C     | Prop with spinner, dis-assembled for shipping   |
| PROPELLER        | D4N00137    | HC-D4N-3A/D9515K[*1]/BULKHEAD  | 2        | A/C     | Fully assembled prop including spinner bulkhead, no spinner dome, no dome screws/washers            |
| PROPELLER        | D4N00137KD  | HC-D4N-3A/D9515K[*1]/BULKHEAD  | 2        | A/C     | Prop, dis-assembled for shipping, includes spinner bulkhead, no spinner dome or dome screws/washers |
| PROPELLER        | D4N00137S   | HC-D4N-3A/D9515K[*1]/D-630-7P  | 2        | A/C     | Assembled prop with spinner (spinner packed separately)   |
| PROPELLER        | D4N00137SKD | HC-D4N-3A/D9515K[*1]/D-630-7P  | 2        | A/C     | Prop with spinner, dis-assembled for shipping   |
| PROPELLER        | D4N00138    | HC-D4N-3A/D9515K[*2]/BULKHEAD  | 2        | A/C     | Fully assembled prop including spinner bulkhead, no spinner dome, no dome screws/washers            |
| PROPELLER        | D4N00138KD  | HC-D4N-3A/D9515K[*2]/BULKHEAD  | 2        | A/C     | Prop, dis-assembled for shipping, includes spinner bulkhead, no spinner dome or dome screws/washers |
| PROPELLER        | D4N00138S   | HC-D4N-3A/D9515K[*2]/D-630-7P  | 2        | A/C     | Assembled prop with spinner (spinner packed separately)   |
| PROPELLER        | D4N00138SKD | HC-D4N-3A/D9515K[*2]/D-630-7P  | 2        | A/C     | Prop with spinner, dis-assembled for shipping   |
| BLADE            | D9515K      | PCP:BLADE UNIT, ALUM [6,26,11] | 4        | Prop    | Blade, silver camber/black face. Tip with black camber/silver face                                  |
| BLADE            | D9515K*1    | PCP:BLADE UNIT, ALUM [6,18,11] | 4        | Prop    | Blade, silver camber/black face. Tip with black/base/black on camber only                           |
| BLADE            | D9515K*2    | PCP:BLADE UNIT, ALUM [1,1,11]  | 4        | Prop    | Blade, gray camber/black face. Tip with white/base/white on camber only                             |
| SPINNER          | D-630-7P    | SPINNER ASSEMBLY               | 1        | Prop    |   |
| SP MT KIT DE-ICE | A-2070-7    | SCREW, 1/4-28, BUTTON HEAD     | 8        | Prop    |   |
| SP MT KIT DE-ICE | B-3384-2H   | BOLT, 1/4-28, HEX HEAD         | 8        | Prop    |   |

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|               |              |                                |   |       |  |
|---------------|--------------|--------------------------------|---|-------|--|
| COUNTERWEIGHT | C-472-2      | PCP:COUNTERWEIGHT              | 1 | Blade | Included in propeller assembly                           |
| DE-ICER       | 104729       | DE-ICE BOOT                    | 1 | Blade | Included with blade                                      |
| DE-ICE KIT PR | 104779       | DE-ICE KIT (ONE PROP)          | 1 | Prop  | Superseded by 106298                                     |
| DE-ICE KIT PR | 106298       | DE-ICE KIT (ONE PROP)          | 1 | Prop  | Supersedes 104779  |
| MTG BOLT/STUD | B-3339-1     | BOLT,MOUNTING,9/16-18,12 POINT | 8 | Prop  | Included in propeller assembly                           |
| MISC ACCES    | A-3044       | BLOCK, BETA FEEDBACK- ASSEMBLY | 1 | Prop  | Included in propeller assembly (shipped in separate bag) |
| OVERHAUL KIT  | HC-D4N-3A-OH | O/H KIT                        | 1 | Prop  | For aftermarket use only                                 |

### HELIO

IDS No.: 2198

Rev.: -

DM Date: 11/20/2003

**Model:** H-391

**Trade Name:** COURIER

**Aircraft T.C./STC:** 1A8

**Propeller Model:** HC-12X20-8, HC-D2X20-8, HC-12X20-8C

**Propeller T.C.:** P48GL

**Blade Model(s):** 9333C

**Prop Diameter:** 93" TO 91"

#### Prop Setup:

**Ref. Radius:** 30

**Reverse Angle:** NA

**Low Pitch Angle:** 14.25 +/-0.2

**Stud Protrusion**

**Modifier:**

**Engine Model:** GO-435-C2

**Power:** 260 HP @ 2182 RPM

**Placard/Restr:**

**Notes:**

**Startlock Angle:** NA

**Feather/High Angle:** 29.25 +/-0.5

**Cwt Angle:** Positive

#### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:**

#### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>         | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|----------------------------|-----------------|----------------|-----------------|
| BLADE            | 9333C              | BLADE                      | 2               | Prop           |                 |
| SPINNER          | D-164              | IDS Item                   | 1               | Prop           | Obsolete        |
| GOVERNOR         | B1                 | IDS Item                   | 1               | A/C            |                 |
| GOVERNOR         | B3                 | GOVERNOR ASSEMBLY, B-3-( ) | 1               | A/C            |                 |
| MTG BOLT/STUD    | A-63B              | PCP: NUT, SHAFT, 20 SPLINE | 1               | Prop           |                 |
| MTG BOLT/STUD    | A-63-B             | NUT,SHAFT,20 SPLINE        | 1               | Prop           |                 |

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**HELIO**

**Model:** H-391  
**Trade Name:** COURIER  
**Aircraft T.C./STC:** 1A8  
**Propeller Model:** HC-12V20-8, HC-D2V20-8  
**Propeller T.C.:** P48GL  
**Blade Model(s):** V9333C  
 V9333N  
**Prop Diameter:** 93" TO 91"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 14.25 +-0.2  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number | Description                | Quantity | Qty Per | Comments |
|---------------|-------------|----------------------------|----------|---------|----------|
| BLADE         | V9333C      | BLADE                      | 2        | Prop    |          |
| BLADE         | V9333N      | BLADE                      | 2        | Prop    |          |
| SPINNER       | D-164       | IDS Item                   | 1        | Prop    | Obsolete |
| GOVERNOR      | B1          | IDS Item                   | 1        | A/C     |          |
| GOVERNOR      | B3          | GOVERNOR ASSEMBLY, B-3-( ) | 1        | A/C     |          |
| MTG BOLT/STUD | A-63B       | PCP: NUT, SHAFT, 20 SPLINE | 1        | Prop    |          |
| MTG BOLT/STUD | A-63-B      | NUT,SHAFT,20 SPLINE        | 1        | Prop    |          |

**IDS No.:** 2199      **Rev.:** -      **DM Date:** 11/20/2003

**Modifier:**  
**Engine Model:** GO-435-C2  
**Power:** 260 HP @ 2182 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 29.25 +-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:**

**HELIO**

**Model:** H-391  
**Trade Name:** COURIER  
**Aircraft T.C./STC:** 1A8  
**Propeller Model:** HC-D2MV20-8  
**Propeller T.C.:** P48GL  
**Blade Model(s):** MV9333N  
**Prop Diameter:** 93" TO 91"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 14.25 +-0.2  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number    | Description                | Quantity | Qty Per | Comments                 |
|---------------|----------------|----------------------------|----------|---------|--------------------------|
| PROPELLER     | D2210035       | HC-D2MV20-8/MV9333N/93-CG  | 1        | A/C     |                          |
| BLADE         | MV9333N        | PCP:BLADE UNIT, ALUMINUM   | 2        | Prop    |                          |
| SPINNER       | D-164          | IDS Item                   | 1        | Prop    | Obsolete                 |
| GOVERNOR      | B1             | IDS Item                   | 1        | A/C     |                          |
| GOVERNOR      | B3             | GOVERNOR ASSEMBLY, B-3-( ) | 1        | A/C     |                          |
| MTG BOLT/STUD | A-63B          | PCP: NUT, SHAFT, 20 SPLINE | 1        | Prop    |                          |
| MTG BOLT/STUD | A-63-B         | NUT,SHAFT,20 SPLINE        | 1        | Prop    |                          |
| OVERHAUL KIT  | HC-D2MV20-8-OH | O/H KIT                    | 1        | Prop    | For aftermarket use only |

**IDS No.:** 582      **Rev.:** 2      **IC Date:** 07/06/2015

**Modifier:**  
**Engine Model:** GO-435-C2  
**Power:** 260 HP @ 2182 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 29.25 +-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:**

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**HELIO**

**Model:** H-391B  
**Trade Name:** COURIER  
**Aircraft T.C./STC:** 1A8  
**Propeller Model:** HC-82X20-1A, HC-A2X20-1A, HC-82X20-1B  
**Propeller T.C.:** P24EA  
**Blade Model(s):**  
**Prop Diameter:** 101" TO 95"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.0 +-0.2  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number | Description                | Quantity | Qty Per | Comments |
|---------------|-------------|----------------------------|----------|---------|----------|
| SPINNER       | 835-15      | SPINNER ASSEMBLY           | 1        | Prop    |          |
| GOVERNOR      | B1          | IDS Item                   | 1        | A/C     |          |
| GOVERNOR      | B3          | GOVERNOR ASSEMBLY, B-3-( ) | 1        | A/C     |          |
| MTG BOLT/STUD | A-63B       | PCP: NUT, SHAFT, 20 SPLINE | 1        | Prop    |          |
| MTG BOLT/STUD | A-63-B      | NUT,SHAFT,20 SPLINE        | 1        | Prop    |          |

**IDS No.:** 2200      **Rev.:** -      **BC Date:** 04/10/2014

**Modifier:**  
**Engine Model:** GO-435-C2B, -C2B2, -C2B2-6  
**Power:** 260 HP @ 2182 RPM  
**Placard/Restr:**

**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 31.0 +-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:**

**HELIO**

**Model:** H-391B  
**Trade Name:** COURIER  
**Aircraft T.C./STC:** 1A8  
**Propeller Model:** HC-A2MV20-1A  
**Propeller T.C.:** P24EA  
**Blade Model(s):** MV10133N  
**Prop Diameter:** 101" TO 95"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.0 +-0.2  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number     | Description                | Quantity | Qty Per | Comments                 |
|---------------|-----------------|----------------------------|----------|---------|--------------------------|
| PROPELLER     | A2210099        | HC-A2MV20-1A/MV10133N      | 1        | A/C     |                          |
| BLADE         | MV10133N        | PCP:BLADE UNIT, ALUMINUM   | 2        | Prop    |                          |
| SPINNER       | 835-15          | SPINNER ASSEMBLY           | 1        | Prop    |                          |
| GOVERNOR      | B1              | IDS Item                   | 1        | A/C     |                          |
| GOVERNOR      | B3              | GOVERNOR ASSEMBLY, B-3-( ) | 1        | A/C     |                          |
| MTG BOLT/STUD | A-63B           | PCP: NUT, SHAFT, 20 SPLINE | 1        | Prop    |                          |
| MTG BOLT/STUD | A-63-B          | NUT,SHAFT,20 SPLINE        | 1        | Prop    |                          |
| OVERHAUL KIT  | HC-A2MV20-1A-OH | O/H KIT                    | 1        | Prop    | For aftermarket use only |

**IDS No.:** 583      **Rev.:** 2      **IC Date:** 07/06/2015

**Modifier:**  
**Engine Model:** GO-435-C2B, -C2B2, -C2B2-6  
**Power:** 260 HP @ 2182 RPM  
**Placard/Restr:**

**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 31.0 +-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:**

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**HELIO**

IDS No.: 584      Rev.: 1      D      Date: 01/07/2011

**Model:** H-395 (L-28A, U-10B)

**Trade Name:** COURIER

**Aircraft T.C./STC:** 1A8

**Propeller Model:** HC-93Z20-1, -1B1

**Propeller T.C.:** P-891

**Blade Model(s):** 10151C

10151C-5

10151CN

10151CN-5

**Prop Diameter:** 101" TO 95"

**Prop Setup:**

**Ref. Radius:** 30

**Reverse Angle:** NA

**Low Pitch Angle:** 11.8 +/-0.2

**Stud Protrusion**

**Modifier:**

**Engine Model:** GO-480-G1D6

**Power:** 295 HP @ 2182 RPM

**Placard/Restr:**

**Notes:**

**Startlock Angle:** NA

**Feather/High Angle:** 30.8 +/-0.5

**Cwt Angle:** Positive

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u>             | <u>Item Number</u> | <u>Description</u>         | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------------------|--------------------|----------------------------|-----------------|----------------|-----------------|
| BLADE                        | 10151C             | IDS Item                   | 3               | Prop           |                 |
| BLADE                        | 10151C-5           | BLADE UNIT, ALUMINUM       | 3               | Prop           |                 |
| BLADE                        | 10151CN            | IDS Item                   | 3               | Prop           |                 |
| BLADE                        | 10151CN-5          | PCP:BLADE UNIT, ALUMINUM   | 3               | Prop           |                 |
| SPINNER                      | 836-15R            | SPINNER ASSEMBLY           | 1               | Prop           |                 |
| GOVERNOR                     | B3                 | GOVERNOR ASSEMBLY, B-3-( ) | 1               | A/C            |                 |
| GOVERNOR                     | B3-1               | GOVERNOR ASSEMBLY, B-3-( ) | 1               | A/C            |                 |
| GOVERNOR                     | F6-37              | GOVERNOR ASSEMBLY, F-6-( ) | 1               | A/C            |                 |
| COUNTERWEIGHT SLUG A-890     |                    | PCP:SLUG, COUNTERWEIGHT    | 1               | Blade          |                 |
| COUNTERWEIGHT SLUG B-3384-7H |                    | BOLT, 1/4-28, HEX HEAD     | 2               | Blade          |                 |
| MTG BOLT/STUD                | A-63B              | PCP: NUT, SHAFT, 20 SPLINE | 1               | Prop           |                 |
| MTG BOLT/STUD                | A-63-B             | NUT,SHAFT,20 SPLINE        | 1               | Prop           |                 |

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HELIO

IDS No.: 2201 Rev.: - BC Date: 04/10/2014

Model: H-395A  
Trade Name: COURIER  
Aircraft T.C./STC: 1A8  
Propeller Model: HC-82X20-1A, HC-A2X20-1A, HC-A2X20-1B  
Propeller T.C.: P24EA  
Blade Model(s):  
Prop Diameter: 101" TO 95"

Modifier:  
Engine Model: GO-435-C2B2-6  
Power: 260 HP @ 2182 RPM  
Placard/Restr:

Notes:

### Prop Setup:

Ref. Radius: 30  
Reverse Angle: NA  
Low Pitch Angle: 13.0 +/-0.2  
Stud Protrusion

Startlock Angle: NA  
Feather/High Angle: 31.0 +/-0.5  
Cwt Angle: Positive

### Non-HPI Items:

Non-HPI Spinner:

Non-HPI Governor:

### Hartzell Approved Items:

| Item Type | Item Number | Description               | Quantity | Qty Per | Comments |
|-----------|-------------|---------------------------|----------|---------|----------|
| SPINNER   | 835-15      | SPINNER ASSEMBLY          | 1        | Prop    |          |
| GOVERNOR  | B1          | IDS Item                  | 1        | A/C     |          |
| GOVERNOR  | B3          | GOVERNOR ASSEMBLY, B-3-() | 1        | A/C     |          |

HELIO

IDS No.: 585 Rev.: 1 D Date: 01/07/2011

Model: H-395A  
Trade Name: COURIER  
Aircraft T.C./STC: 1A8  
Propeller Model: HC-A2MV20-1A  
Propeller T.C.: P24EA  
Blade Model(s): MV10133N  
Prop Diameter: 101" TO 95"

Modifier:  
Engine Model: GO-435-C2B2-6  
Power: 260 HP @ 2182 RPM  
Placard/Restr:

Notes:

### Prop Setup:

Ref. Radius: 30  
Reverse Angle: NA  
Low Pitch Angle: 13.0 +/-0.2  
Stud Protrusion

Startlock Angle: NA  
Feather/High Angle: 31.0 +/-0.5  
Cwt Angle: Positive

### Non-HPI Items:

Non-HPI Spinner:

Non-HPI Governor:

### Hartzell Approved Items:

| Item Type | Item Number | Description               | Quantity | Qty Per | Comments |
|-----------|-------------|---------------------------|----------|---------|----------|
| BLADE     | MV10133N    | PCP:BLADE UNIT, ALUMINUM  | 2        | Prop    |          |
| SPINNER   | 835-15      | SPINNER ASSEMBLY          | 2        | Prop    |          |
| GOVERNOR  | B1          | IDS Item                  | 1        | A/C     |          |
| GOVERNOR  | B3          | GOVERNOR ASSEMBLY, B-3-() | 1        | A/C     |          |

# HARTZELL

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**HELIO**

IDS No.: 590      Rev.: 1      D      Date: 01/07/2011

**Model:** HST-550  
**Trade Name:** STALLION  
**Aircraft T.C./STC:** A4EA  
**Propeller Model:** HC-B3TN-3C  
**Propeller T.C.:** P15EA  
**Blade Model(s):** T10173C  
    T10173CN  
**Prop Diameter:** 101.5" TO 98.8"

**Modifier:**  
**Engine Model:** PT6A-6A  
**Power:** 550 HP @ 2200 RPM  
**Placard/Restr:**  
**Notes:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** -17.0 +-0.5  
**Low Pitch Angle:** 16.0 +-0.2  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 78.0 +-0.5  
**Cwt Angle:** Positive

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u>               | <u>Item Number</u> | <u>Description</u>                | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|--------------------------------|--------------------|-----------------------------------|-----------------|----------------|-----------------|
| BLADE                          | T10173C            | BLADE                             | 3               | Prop           |                 |
| BLADE                          | T10173CN           | PCP:BLADE UNIT, ALUMINUM          | 3               | Prop           |                 |
| SPINNER                        | C-3065-P           | SPINNER ASSEMBLY                  | 1               | Prop           |                 |
| COUNTERWEIGHT SLUG A-3039      |                    | SLUG, COUNTERWEIGHT               | 1               | Blade          |                 |
| COUNTERWEIGHT SLUG A-890-8     |                    | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          |                 |
| COUNTERWEIGHT SLUG B-3384-18H  |                    | BOLT, 1/4-28, HEX HEAD            | 2               | Blade          |                 |
| COUNTERWEIGHT SLUG B-3851-0432 |                    | WASHER                            | 2               | Blade          | Optional        |
| COUNTERWEIGHT SLUG B-3851-0463 |                    | WASHER                            | 2               | Blade          | Optional        |
| MTG BOLT/STUD                  | B-3339             | BOLT, MOUNTING, 9/16-18, 12 POINT | 8               | Prop           |                 |

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HELIO

IDS No.: 591      Rev.: 2      D      Date: 06/04/2013

**Model:** HST-550A (AU-24A)  
**Trade Name:** STALLION  
**Aircraft T.C./STC:** A4EA  
**Propeller Model:** HC-B3TN-3D  
**Propeller T.C.:** P15EA  
**Blade Model(s):** T10178C  
    T10178CN  
**Prop Diameter:** 101.5" TO 98.8"

**Modifier:**  
**Engine Model:** PT6A-27  
**Power:** 680 HP @ 2200 RPM  
**Placard/Restr:**  
**Notes:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** -12.0 +-1.0  
**Low Pitch Angle:** 14.0 +-1.0  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 87.0 +-1.0  
**Cwt Angle:** Positive

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u>               | <u>Item Number</u> | <u>Description</u>                | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|--------------------------------|--------------------|-----------------------------------|-----------------|----------------|-----------------|
| BLADE                          | T10178C            | BLADE                             | 3               | Prop           |                 |
| BLADE                          | T10178CN           | PCP:BLADE UNIT, ALUMINUM          | 3               | Prop           |                 |
| SPINNER                        | C-3065-P           | SPINNER ASSEMBLY                  | 1               | Prop           |                 |
| COUNTERWEIGHT SLUG A-3039      |                    | SLUG, COUNTERWEIGHT               | 1               | Blade          |                 |
| COUNTERWEIGHT SLUG A-890-6     |                    | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          | Primary         |
| COUNTERWEIGHT SLUG A-890-8     |                    | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          | Alternate       |
| COUNTERWEIGHT SLUG A-890-9     |                    | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          | Alternate       |
| COUNTERWEIGHT SLUG B-3384-21H  |                    | BOLT, 1/4-28, HEX HEAD            | 2               | Blade          |                 |
| COUNTERWEIGHT SLUG B-3851-0432 |                    | WASHER                            | 2               | Blade          | Optional        |
| COUNTERWEIGHT SLUG B-3851-0463 |                    | WASHER                            | 2               | Blade          | Optional        |
| MTG BOLT/STUD                  | B-3339             | BOLT, MOUNTING, 9/16-18, 12 POINT | 8               | Prop           |                 |



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**HELIO**

**Model:** H-250  
**Trade Name:** COURIER  
**Aircraft T.C./STC:** 1A8  
**Propeller Model:** HC-92WK-1D  
**Propeller T.C.:** P16EA  
**Blade Model(s):** W8847  
 W8847N  
**Prop Diameter:** 88" TO 86"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.0 +-0.2  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number | Description                   | Quantity | Qty Per | Comments           |
|---------------|-------------|-------------------------------|----------|---------|--------------------|
| BLADE         | W8847       | PCP:BLADE UNIT, ALUMINUM      | 2        | Prop    | REPLACED BY W8847N |
| BLADE         | W8847N      | PCP:BLADE UNIT, ALUMINUM      | 2        | Prop    |                    |
| SPINNER       | C-2513-3    | SPINNER ASSEMBLY              | 1        | Prop    |                    |
| GOVERNOR      | F6-8        | IDS Item                      | 1        | A/C     |                    |
| GOVERNOR      | F6-8L       | IDS Item                      | 1        | A/C     | #2521 & up         |
| MTG BOLT/STUD | A-1333      | BOLT,MOUNTING,1/2-20,HEX HEAD | 4        | Prop    | PRIMARY            |
| MTG BOLT/STUD | A-1333-2    | IDS Item                      | 2        | Prop    | PRIMARY            |
| MTG BOLT/STUD | A-1333-3    | BOLT,MOUNTING,1/2-20,HEX HEAD | 2        | Prop    | SECONDARY          |
| MTG BOLT/STUD | A-1333-6    | BOLT,MOUNTING,1/2-20,HEX HEAD | 2        | Prop    | SECONDARY          |

**IDS No.:** 579      **Rev.:** 1      **D**      **Date:** 01/07/2011

**Modifier:**  
**Engine Model:** O-540-A1A5  
**Power:** 250 HP @ 2575 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 28.5 +-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:**

**HELIO**

**Model:** H-295, HT-295 (U-10D)  
**Trade Name:** COURIER  
**Aircraft T.C./STC:** 1A8  
**Propeller Model:** HC-B3W20-1  
**Propeller T.C.:** P2EA  
**Blade Model(s):** W10151CN-5  
**Prop Diameter:** 96.0" TO 95.0"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 11.8 +-0.2  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type                    | Item Number | Description                | Quantity | Qty Per | Comments |
|------------------------------|-------------|----------------------------|----------|---------|----------|
| BLADE                        | W10151CN-5  | IDS ITEM, BLADE            | 3        | Prop    |          |
| SPINNER                      | 836-15R     | SPINNER ASSEMBLY           | 1        | Prop    |          |
| GOVERNOR                     | B3          | GOVERNOR ASSEMBLY, B-3-()  | 1        | A/C     |          |
| COUNTERWEIGHT SLUG A-890     |             | PCP:SLUG, COUNTERWEIGHT    | 1        | Blade   |          |
| COUNTERWEIGHT SLUG B-3384-7H |             | BOLT, 1/4-28, HEX HEAD     | 2        | Blade   |          |
| MTG BOLT/STUD                | A-63B       | PCP: NUT, SHAFT, 20 SPLINE | 1        | Prop    |          |

**IDS No.:** 3825      **Rev.:** -      **IC**      **Date:** 04/07/2021

**Modifier:**  
**Engine Model:** GO-480-G1D6,G1A6  
**Power:** 295 HP @ 2182 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 30.8 +-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:**

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**HELIO**

IDS No.: 581      Rev.: 1      D      Date: 01/07/2011

**Model:** H-295, HT-295 (U-10D)

**Trade Name:** COURIER

**Aircraft T.C./STC:** 1A8

**Propeller Model:** HC-B3Z20-1

**Propeller T.C.:** P-907

**Blade Model(s):** 10151C-5  
10151CN-5

**Prop Diameter:** 96.0" TO 95.0"

**Prop Setup:**

**Ref. Radius:** 30

**Reverse Angle:** NA

**Low Pitch Angle:** 11.8 +/-0.2

**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Modifier:**

**Engine Model:** GO-480-G1D6,G1A6

**Power:** 295 HP @ 2182 RPM

**Placard/Restr:**

**Notes:**

**Startlock Angle:** NA

**Feather/High Angle:** 30.8 +/-0.5

**Cwt Angle:** Positive

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u>             | <u>Item Number</u> | <u>Description</u>         | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------------------|--------------------|----------------------------|-----------------|----------------|-----------------|
| PROPELLER                    | B3200102           | HC-B3Z20-1/10151C-5        | 1               | A/C            |                 |
| PROPELLER                    | B3210102           | HC-B3Z20-1/10151CN-5       | 1               | A/C            |                 |
| BLADE                        | 10151C-5           | BLADE UNIT, ALUMINUM       | 3               | Prop           |                 |
| BLADE                        | 10151CN-5          | PCP:BLADE UNIT, ALUMINUM   | 3               | Prop           |                 |
| SPINNER                      | 836-15R            | SPINNER ASSEMBLY           | 1               | Prop           |                 |
| GOVERNOR                     | B3                 | GOVERNOR ASSEMBLY, B-3-( ) | 1               | A/C            |                 |
| COUNTERWEIGHT SLUG A-890     |                    | PCP:SLUG, COUNTERWEIGHT    | 1               | Blade          |                 |
| COUNTERWEIGHT SLUG B-3384-7H |                    | BOLT, 1/4-28, HEX HEAD     | 2               | Blade          |                 |
| MTG BOLT/STUD                | A-63B              | PCP: NUT, SHAFT, 20 SPLINE | 1               | Prop           |                 |
| MTG BOLT/STUD                | A-63-B             | NUT,SHAFT,20 SPLINE        | 1               | Prop           |                 |

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HELIO

**Model:** H-500  
**Trade Name:** TWIN COURIER  
**Aircraft T.C./STC:** A2EA  
**Propeller Model:** HC-92ZK-2B  
**Propeller T.C.:** P892  
**Blade Model(s):** 8447  
 8447N  
**Prop Diameter:** 84" TO 82"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 11.4 +-0.2  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number | Description                   | Quantity | Qty Per | Comments |
|---------------|-------------|-------------------------------|----------|---------|----------|
| BLADE         | 8447        | BLADE UNIT, ALUMINUM          | 2        | Prop    |          |
| BLADE         | 8447N       | PCP:BLADE UNIT, ALUMINUM      | 2        | Prop    |          |
| SPINNER       | 835-30      | SPINNER ASSEMBLY              | 1        | Prop    | TC       |
| GOVERNOR      | B3-2        | IDS Item                      | 1        | A/C     |          |
| GOVERNOR      | B4-7        | IDS Item                      | 1        | A/C     |          |
| GOVERNOR      | F6-6        | IDS Item                      | 1        | A/C     |          |
| MTG BOLT/STUD | A-1328      | BOLT,MOUNTING,1/2-20,12 POINT | 4        | Prop    |          |
| MTG BOLT/STUD | A-1333      | BOLT,MOUNTING,1/2-20,HEX HEAD | 2        | Prop    |          |

**IDS No.:** 586      **Rev.:** 1      **D Date:** 01/07/2011

**Modifier:**  
**Engine Model:** O-540-A2B  
**Power:** 250 HP @ 2575 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 82.7 +-1.0  
**Cwt Angle:** Positive

**Non-HPI Governor:**

HELIO

**Model:** H-700  
**Trade Name:** COURIER  
**Aircraft T.C./STC:** 1A8  
**Propeller Model:** HC-E3YR-1RF  
**Propeller T.C.:**  
**Blade Model(s):** F9587A-10  
**Prop Diameter:** 87"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.7 +-0.2  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number | Description               | Quantity | Qty Per | Comments            |
|---------------|-------------|---------------------------|----------|---------|---------------------|
| BLADE         | F9587A-10   | PCP:BLADE UNIT, ALUMINUM  | 3        | Prop    |                     |
| SPINNER       | A-2295-1    | SPINNER ASSEMBLY          | 1        | Prop    | TC                  |
| SPINNER       | C-3535-1    | SPINNER ASSEMBLY          | 1        | Prop    | Hz                  |
| GOVERNOR      | F4-13       | GOVERNOR ASSEMBLY, F-4(-) | 1        | A/C     | Supersedes F4-30    |
| GOVERNOR      | F4-30       | IDS Item                  | 1        | A/C     | Superseded by F4-13 |
| MTG BOLT/STUD | A-2067      | STUD, MOUNTING, 1/2-20    | 6        | Prop    |                     |

**IDS No.:** 587      **Rev.:** -      **DM Date:** 10/01/1992

**Modifier:**  
**Engine Model:** TIO-540-J2B  
**Power:** 350 HP @ 2575 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 31.0 +-0.5  
**Cwt Angle:**

**Non-HPI Governor:**

# HARTZELL

## APPLICATION GUIDE 159

**HELIO**

**Model:** H-800  
**Trade Name:** COURIER  
**Aircraft T.C./STC:** 1A8  
**Propeller Model:** HC-C3YR-1RF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** F8475R  
**Prop Diameter:** 86"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 11.8 +-0.2  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number    | Description               | Quantity | Qty Per | Comments                 |
|---------------|----------------|---------------------------|----------|---------|--------------------------|
| PROPELLER     | C3R00088       | HC-C3YR-1RF/F8475R/SM7    | 1        | A/C     |                          |
| PROPELLER     | C3R00088KD     | HC-C3YR-1RF/F8475R/SM7    | 1        | A/C     |                          |
| BLADE         | F8475R         | PCP:BLADE UNIT, ALUMINUM  | 3        | Prop    |                          |
| SPINNER       | A-2295-1       | SPINNER ASSEMBLY          | 1        | Prop    |                          |
| SPINNER       | A-2295-1P      | SPINNER ASSEMBLY          | 1        | Prop    |                          |
| GOVERNOR      | F4-3A          | GOVERNOR ASSEMBLY, F-4-() | 1        | A/C     |                          |
| SPIN MTG KIT  | A-2476-7       | SPINNER - MTG KIT         | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2067         | STUD, MOUNTING, 1/2-20    | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-C3YR-1RF-OH | O/H KIT                   | 1        | Prop    | For aftermarket use only |

**IDS No.:** 589      **Rev.:** 2      **IC Date:** 07/16/2015

**Modifier:**  
**Engine Model:** IO-720-A1B  
**Power:** 400 HP @ 2650 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 30.8 +-0.5  
**Cwt Angle:**

**Non-HPI Governor:**

**HINDUSTAN**

**Model:** HPT 32  
**Trade Name:** TRAINER  
**Aircraft T.C./STC:** Unknown  
**Propeller Model:** HC-C2YR-4CF  
**Propeller T.C.:** P-920  
**Blade Model(s):** FC8477-4R  
**Prop Diameter:** 80"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 11.0 +-0.1  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number    | Description               | Quantity | Qty Per | Comments                 |
|---------------|----------------|---------------------------|----------|---------|--------------------------|
| PROPELLER     | C2R00243       | HC-C2YR-4CF/FC8477-4R/SM8 | 1        | A/C     |                          |
| BLADE         | FC8477-4R      | PCP:BLADE UNIT, B-3202H-8 | 2        | Prop    |                          |
| SPINNER       | 836-60         | SPINNER ASSEMBLY          | 1        | Prop    |                          |
| SPINNER       | 836-60P        | SPINNER ASSEMBLY          | 1        | Prop    |                          |
| SPIN MTG KIT  | A-2476-8       | SPINNER - MTG KIT         | 1        | Prop    |                          |
| COUNTERWEIGHT | B-3202H-8      | PCP:COUNTERWEIGHT         | 1        | Blade   | Blade Component          |
| MTG BOLT/STUD | A-2067         | STUD, MOUNTING, 1/2-20    | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-C2YR-4CF-OH | O/H KIT                   | 1        | Prop    | For aftermarket use only |

**IDS No.:** 594      **Rev.:** 2      **IC Date:** 09/23/2021

**Modifier:**  
**Engine Model:** AEIO-540-D4B5  
**Power:** 260 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:** Cylinder is life limited, reference Manual 115N for Airworthiness Limitations.

**Startlock Angle:** NA  
**Feather/High Angle:** 33.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

# HARTZELL

## APPLICATION GUIDE 159

HOME BUILT

IDS No.: 598      Rev.: -      DM Date: 03/10/2003

**Model:** BARACUDA

**Modifier:**

**Trade Name:**

**Engine Model:** IO-540-T4B5D

**Aircraft T.C./STC:** Experimental

**Power:** 260 HP @ 2700 RPM

**Propeller Model:** HC-E3YR-1RF

**Placard/Restr:**

**Propeller T.C.:**

**Notes:**

**Blade Model(s):** F7663-2Q

**Prop Diameter:** 76"

### Prop Setup:

**Ref. Radius:** 30

**Startlock Angle:** NA

**Reverse Angle:** NA

**Feather/High Angle:** 32.0 +-2.0

**Low Pitch Angle:** 13.1 +-0.1

**Cwt Angle:**

**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>       | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|--------------------------|-----------------|----------------|-----------------|
| BLADE            | F7663-2Q           | PCP:BLADE UNIT, ALUMINUM | 3               | Prop           |                 |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20   | 6               | Prop           |                 |

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# HARTZELL

## APPLICATION GUIDE

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ICA (ROMANIA)

IDS No.: 2740      Rev.: 1      D      Date: 01/10/2011

**Model:** IAR-823

**Trade Name:**

**Aircraft T.C./STC:** Unknown

**Propeller Model:** HC-92WK-1D

**Propeller T.C.:** P16EA

**Blade Model(s):** W9350C-4.6  
W9350CN-4.6

**Prop Diameter:** 88

**Prop Setup:**

**Ref. Radius:** 30

**Reverse Angle:**

**Low Pitch Angle:** 12.5 +-0.1

**Stud Protrusion**

**Modifier:**

**Engine Model:** IO-540-G1D5

**Power:** 290 HP @ 2575 RPM

**Placard/Restr:** Do not exceed 23" Hg manifold pressure below 2350 RPM.

**Notes:**

**Startlock Angle:**

**Feather/High Angle:** 28.5 +-1.0

**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u>            | <u>Item Number</u> | <u>Description</u>            | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>             |
|-----------------------------|--------------------|-------------------------------|-----------------|----------------|-----------------------------|
| PROPELLER                   | 92K10041           | HC-92WK-1D/W9350CN-4.6        | 0               |                |                             |
| BLADE                       | W9350C-4.6         | PCP:BLADE UNIT, ALUMINUM      | 2               | Prop           | Inactive for new production |
| BLADE                       | W9350CN-4.6        | PCP:BLADE UNIT, ALUMINUM      | 2               | Prop           |                             |
| SPINNER                     | 835-30             | SPINNER ASSEMBLY              | 1               | A/C            |                             |
| SPINNER                     | 835-30P            | SPINNER ASSEMBLY              | 1               | A/C            |                             |
| GOVERNOR                    | F-6-6A             | IDS ITEM                      | 1               | A/C            | For Narrow Deck Engine Only |
| COUNTERWEIGHT SLUG A-29-2   |                    | SLUG, COUNTERWEIGHT           | 2               | Blade          |                             |
| COUNTERWEIGHT SLUG B-3840-8 |                    | SCREW, 10-32, FILLISTER HEAD  | 2               | Blade          |                             |
| MTG BOLT/STUD               | A-1333             | BOLT,MOUNTING,1/2-20,HEX HEAD | 2               | Prop           |                             |
| MTG BOLT/STUD               | A-1333-3           | BOLT,MOUNTING,1/2-20,HEX HEAD | 2               | Prop           |                             |
| MTG BOLT/STUD               | A-1333-6           | BOLT,MOUNTING,1/2-20,HEX HEAD | 2               | Prop           |                             |

# HARTZELL

## APPLICATION GUIDE 159

### ILYUSHIN

**Model:** IL-103  
**Trade Name:**  
**Aircraft T.C./STC:** A45CE  
**Propeller Model:** BHC-C2YF-1BF  
**Propeller T.C.:** P-920

**Blade Model(s):** F8459A-8R  
 F8459A-8R\*1  
**Prop Diameter:** 76.0" TO 75.0"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.5 +-0.1  
**Stud Protrusion** 1.120 +-0.030

#### Non-HPI Items:

**Non-HPI Spinner:**

#### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>             | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|--------------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | C2F00052           | BHC-C2YF-1BF/F8459A-8R/SM4     | 1               | A/C            |                          |
| PROPELLER        | C2F00060           | BHC-C2YF-1BF/F8459A-8R[*1]/SM4 | 1               | A/C            |                          |
| BLADE            | F8459A-8R          | PCP:BLADE UNIT, ALUM [1,1,1]   | 2               | Prop           |                          |
| BLADE            | F8459A-8R*1        | PCP:BLADE UNIT, ALUM [1,12,4]  | 2               | Prop           |                          |
| SPINNER          | C-3568-P           | SPINNER ASSEMBLY               | 1               | Prop           |                          |
| GOVERNOR         | E6-2               | GOVERNOR ASSEMBLY, E-6-()      | 1               | A/C            |                          |
| SPIN MTG KIT     | A-2476-4           | SPINNER - MTG KIT              | 1               | Prop           |                          |
| MTG BOLT/STUD    | A-2429-3           | STUD, MOUNTING, 1/2-20         | 6               | Prop           |                          |
| OVERHAUL KIT     | BHC-C2YF-1BF-OH    | O/H KIT                        | 1               | Prop           | For aftermarket use only |

**IDS No.:** 1291      **Rev.:** 1      **IC Date:** 07/07/2015

**Modifier:**  
**Engine Model:** IO-360-ES  
**Power:** 210 HP @ 2800 RPM  
**Placard/Restr:** Avoid continuous ground operation between 1700 and 2100 RPM in cross and tail winds of over 10 knots.

#### **Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 30.5 +-0.5  
**Cwt Angle:**

**Non-HPI Governor:**

### INTERCEPTOR

**Model:** see PROP JETS INC.  
**Trade Name:**  
**Aircraft T.C./STC:**  
**Propeller Model:**  
**Propeller T.C.:**  
**Blade Model(s):**  
**Prop Diameter:**

#### Prop Setup:

**Ref. Radius:**  
**Reverse Angle:**  
**Low Pitch Angle:**  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

#### Hartzell Approved Items:

**IDS No.:** 601      **Rev.:** -      **DM Date:** 10/01/1992

**Modifier:**  
**Engine Model:**  
**Power:** HP @ RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:**  
**Feather/High Angle:**  
**Cwt Angle:**

**Non-HPI Governor:**



# HARTZELL

## APPLICATION GUIDE

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### INTERSTATE AIRCRAFT

**Model:** S-1B2  
**Trade Name:** ARCTIC TERN  
**Aircraft T.C./STC:** A-754  
**Propeller Model:** HC-C2YL-1BF  
**Propeller T.C.:** P-920  
**Blade Model(s):** F8468A-4R  
**Prop Diameter:** 80" TO 74"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 10.7 +-0.1  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 1759      **Rev.:** 1      **IC Date:** 07/07/2015

**Modifier:**  
**Engine Model:** 0-320-B3B  
**Power:** 160 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:**  
**Feather/High Angle:** 22.5 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

#### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>             | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|--------------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | C2L00058           | HC-C2YL-1BF/F8468A-4R/SM4      | 1               | A/C            |                          |
| BLADE            | F8468A-4R          | PCP:BLADE UNIT, ALUM [1,1,1]   | 2               | Prop           |                          |
| SPINNER          | A-4203-P           | SPINNER ASSEMBLY               | 1               | Prop           |                          |
| SPIN MTG KIT     | A-2476-4           | SPINNER - MTG KIT              | 1               | Prop           |                          |
| MTG BOLT/STUD    | A-2247-1           | STUD, MOUNTING,7/16-20,DRILLED | 6               | Prop           |                          |
| OVERHAUL KIT     | HC-C2YL-1BF-OH     | O/H KIT                        | 1               | Prop           | For aftermarket use only |

# HARTZELL

## APPLICATION GUIDE

159

ISRAEL AIRCRAFT INDUSTRIES

IDS No.: 602 Rev.: 3 IC Date: 07/15/2015

Model: 101, 101B  
 Trade Name: ARAVA  
 Aircraft T.C./STC: A32EU  
 Propeller Model: HC-B3TN-3D  
 Propeller T.C.: P15EA  
 Blade Model(s): T10282NR  
 T10282NRB  
 T10282R  
 T10282RB

Modifier:  
 Engine Model: PT6A-27, -36  
 Power: 750 HP @ 2200 RPM  
 Placard/Restr:  
 Notes: Engine Ratings Note: PT6A-27 (680hp)

Prop Diameter: 102.0"

**Prop Setup:**

Ref. Radius: 30  
 Reverse Angle: -15.0 +/-0.5  
 Low Pitch Angle: 19.3 +/-0.1  
 Stud Protrusion

Startlock Angle: NA  
 Feather/High Angle: 87.0 +/-0.5  
 Cwt Angle: -1.0 TO POS.

**Non-HPI Items:**

Non-HPI Spinner:

Non-HPI Governor:

**Hartzell Approved Items:**

| Item Type                      | Item Number   | Description                       | Quantity | Qty Per | Comments                 |
|--------------------------------|---------------|-----------------------------------|----------|---------|--------------------------|
| PROPELLER                      | B3N10541      | HC-B3TN-3D/T10282NRB/BULK/DEI     | 2        | A/C     |                          |
| BLADE                          | T10282NR      | PCP:BLADE UNIT, ALUMINUM          | 3        | Prop    |                          |
| BLADE                          | T10282NRB     | PCP:BLADE UNIT, ALUMINUM          | 3        | Prop    |                          |
| BLADE                          | T10282R       | BLADE                             | 3        | Prop    |                          |
| BLADE                          | T10282RB      | BLADE, 4E1188-5 BOOT              | 3        | Prop    |                          |
| SPINNER                        | C-3065-1      | SPINNER ASSEMBLY                  | 1        | Prop    |                          |
| SPINNER                        | C-3065-1P     | SPINNER ASSEMBLY                  | 1        | Prop    |                          |
| SPIN MTG KIT                   | B-3384-4H     | BOLT, 1/4-28, HEX HEAD            | 12       | Prop    |                          |
| SPIN MTG KIT                   | B-3808-4      | NUT,HEX,SELF-LOCKING              | 24       | Prop    |                          |
| SPIN MTG KIT                   | B-3851-0432   | WASHER                            | 24       | Prop    |                          |
| SP MT KIT DE-ICE               | A-2070-7      | SCREW, 1/4-28, BUTTON HEAD        | 12       | Prop    |                          |
| SP MT KIT DE-ICE               | B-3808-4      | NUT,HEX,SELF-LOCKING              | 12       | Prop    |                          |
| SP MT KIT DE-ICE               | B-3837-0432   | WASHER, CORROSION RESISTANT       | 12       | Prop    |                          |
| SP MT KIT DE-ICE               | B-7077-52     | BELLEVILLE SPRING WASHER          | 12       | Prop    |                          |
| COUNTERWEIGHT SLUG A-3039      |               | SLUG, COUNTERWEIGHT               | 1        | Blade   |                          |
| COUNTERWEIGHT SLUG A-890-6     |               | PCP:SLUG, COUNTERWEIGHT           | 1        | Blade   | Primary                  |
| COUNTERWEIGHT SLUG A-890-8     |               | PCP:SLUG, COUNTERWEIGHT           | 1        | Blade   | Alternate                |
| COUNTERWEIGHT SLUG A-890-9     |               | PCP:SLUG, COUNTERWEIGHT           | 1        | Blade   | Alternate                |
| COUNTERWEIGHT SLUG B-3384-21H  |               | BOLT, 1/4-28, HEX HEAD            | 2        | Blade   |                          |
| COUNTERWEIGHT SLUG B-3851-0432 |               | WASHER                            | 2        | Blade   | Optional                 |
| COUNTERWEIGHT SLUG B-3851-0463 |               | WASHER                            | 2        | Blade   | Optional                 |
| DE-ICER                        | 4H1188-5      | DE-ICE BOOT                       | 1        | Blade   | Supersedes 7931-4E1188-5 |
| DE-ICE KIT PR                  | 7931-65-035-1 | DE-ICE KIT (ONE PROP)             | 1        | Prop    |                          |
| MTG BOLT/STUD                  | B-3339        | BOLT, MOUNTING, 9/16-18, 12 POINT | 8        | Prop    |                          |
| OVERHAUL KIT                   | HC-B3TN-3D-OH | O/H KIT                           | 1        | Prop    | For aftermarket use only |

# HARTZELL

JOBMASTER

**Model:** DGA-15P  
**Trade Name:**  
**Aircraft T.C./STC:** STC-SA3-716  
**Propeller Model:** HC-B3Z30-2E  
**Propeller T.C.:**  
**Blade Model(s):** 10152-5.5  
10152N-5.5  
**Prop Diameter:** 96"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:**  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u> | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|--------------------|-----------------|----------------|-----------------|
| BLADE            | 10152-5.5          | BLADE              | 3               | Prop           |                 |
| BLADE            | 10152N-5.5         | BLADE              | 3               | Prop           |                 |
| SPINNER          | 836-32SPR          | SPINNER ASSEMBLY   | 1               | Prop           |                 |

## APPLICATION GUIDE 159

**IDS No.:** 603      **Rev.:** -      **DM Date:** 10/01/1992

**Modifier:** MAXWELL AIRCRAFT  
**Engine Model:** R985-AN-6  
**Power:** 450 HP @ 2300 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:**  
**Cwt Angle:** Positive

**Non-HPI Governor:**

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# HARTZELL

## APPLICATION GUIDE

159

### KING'S ENGINEERING FELLOWSHIP

**Model:** 44  
**Trade Name:** ANGEL  
**Aircraft T.C./STC:** A2WI  
**Propeller Model:** HC-E3YR-2ALTF  
**Propeller T.C.:** P33EA  
**Blade Model(s):** FLC7468  
FLC7468\*1  
**Prop Diameter:** 76.0" TO 75.0"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.2 +-0.2  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:** KING'S

**IDS No.:** 605      **Rev.:** 2      **IC Date:** 07/15/2015

**Modifier:**  
**Engine Model:** IO-540-M1A5, -M1C5  
**Power:** 300 HP @ 2700 RPM  
**Placard/Restr:**

**Notes:** Install hub bolts with heads toward flange.

**Startlock Angle:** 18.7 +-1.5  
**Feather/High Angle:** 84.5 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

#### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>             | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|--------------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | E3R00155           | HC-E3YR-2ALTF/FLC7468[*1]      | 2               | A/C            |                          |
| PROPELLER        | E3R00155KD         | HC-E3YR-2ALTF/FLC7468[*1]      | 1               | A/C            |                          |
| BLADE            | FLC7468            | PCP:BLADE UNIT, ALUM [2,2,1]   | 3               | Prop           |                          |
| BLADE            | FLC7468*1          | PCP:BLADE UNIT, ALUM [2,3,1]   | 3               | Prop           |                          |
| GOVERNOR         | V1-4               | GOVERNOR ASSEMBLY, V-(1,2)-( ) | 2               | A/C            |                          |
| COUNTERWEIGHT    | B-3202H-5          | PCP:COUNTERWEIGHT              | 1               | Blade          | Blade Component          |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20         | 6               | Prop           |                          |
| OVERHAUL KIT     | HC-E3YR-2ALTF      | O/H KIT                        | 1               | Prop           | For aftermarket use only |

# HARTZELL

## APPLICATION GUIDE 159

KOREA AEROSPACE INDUSTRIES LTD

IDS No.: 3816 Rev.: - IC Date: 01/14/2021

**Model:** KT-1 (Agency for Defense Development)  
**Trade Name:** Woongbee  
**Aircraft T.C./STC:** TC-09-001 (Korea)  
**Propeller Model:** HC-E4N-2D  
**Propeller T.C.:** P10NE

**Modifier:**

**Engine Model:** PT6A-62

**Power:** 950 HP @ 2000 RPM

**Placard/Restr:** 1. Stabilized ground operation is prohibited between 1300 and 1650 RPM. 2. Intentional power-on spins, inverted left spins, tail slides and dutch rolls are prohibited. 3. Ground idle throttle position must be used for all erect spin maneuvers and flight idle throttle position for inverted right spins. 4. Intentional aerobatic maneuvers are prohibited when aircraft weight is above 6100 lbs. 5. Propeller blades are life limited and must be retired after 7100 hours of operation.

**Blade Model(s):** E9512GB-1\*3

**Prop Diameter:** 95"-94"

**Prop Setup:**

**Ref. Radius:** 30

**Reverse Angle:** N/A

**Low Pitch Angle:** 12.0 +/-0.1

**Stud Protrusion**

**Notes:**

**Startlock Angle:** N/A

**Feather/High Angle:** 87.0 +/-0.5

**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u>            | <u>Item Number</u> | <u>Description</u>             | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>  |
|-----------------------------|--------------------|--------------------------------|-----------------|----------------|--|
| PROPELLER                   | E4N11105S          | HC-E4N-2D/E9512GB-1*3/D-630-1  | 1               | A/C            |  |
| BLADE                       | E9512GB-1*3        | PCP:BLADE UNIT, ALUM [1,6,4]   | 4               | Prop           | Yellow Tips  |
| SPINNER                     | D-630-1            | SPINNER ASSEMBLY               | 1               | Prop           |  |
| SPINNER                     | D-630-1P           | SPINNER ASSEMBLY               | 1               | Prop           |  |
| SP MT KIT DE-ICE            | A-2070-7           | SCREW, 1/4-28, BUTTON HEAD     | 8               | Prop           | Used when no pulley is installed                                 |
| SP MT KIT DE-ICE            | B-3384-9H          | BOLT, 1/4-28, HEX HEAD         | 8               | Prop           | Used when pulley is installed                                    |
| SP MT KIT DE-ICE            | B-3851-0432        | WASHER                         | 8               | Prop           | Used when pulley is installed                                    |
| COUNTERWEIGHT               | C-472-10           | PCP:COUNTERWEIGHT              | 1               | Blade          |  |
| COUNTERWEIGHT SLUG A-1712   |                    | BOLT,3/8-24,HEX HEAD           | 1               | Blade          |  |
| COUNTERWEIGHT SLUG A-1745   |                    | WASHER, 3/8 "                  | 3               | Blade          |  |
| COUNTERWEIGHT SLUG A-2043-1 |                    | NUT,3/8-24,HEX,SELF-LOCKING    | 1               | Blade          |  |
| DE-ICER                     | 102878             | DE-ICE BOOT                    | 1               | Blade          |  |
| DE-ICE KIT PR               | 106138             | DE-ICE KIT (ONE PROP)          | 1               | Prop           | Supersedes 7931-67-870-4 de-ice kit; De-ice kit used with pulley |
| MTG BOLT/STUD               | B-3339-1           | BOLT,MOUNTING,9/16-18,12 POINT | 8               | Prop           |  |
| OVERHAUL KIT                | HC-E4N-2-OH        | O/H KIT                        | 1               | Prop           | For aftermarket use only   |

# HARTZELL

## APPLICATION GUIDE

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**KOREA AEROSPACE INDUSTRIES LTD**

IDS No.: 2022 Rev.: 7 IC Date: 11/25/2019

**Model:** KT-1B (Indonesian Air force)

**Trade Name:** WOONGBEE

**Aircraft T.C./STC:** Unknown

**Propeller Model:** HC-E4N-2C

**Propeller T.C.:** P10NE

**Modifier:**

**Engine Model:** PT6A-62

**Power:** 950 HP @ 2000 RPM

**Placard/Restr:** "Stabilized ground operation is prohibited between 1300 and 1650 RPM. Intentional power on spins, tail slides, stall turns, and Dutch rolls are prohibited."

**Blade Model(s):** E9512CB-1  
E9512CB-1\*1

**Notes:** Reference Manual 149 for Airworthiness Limitations.

**Prop Diameter:** 95"

**Prop Setup:**

**Ref. Radius:** 30

**Reverse Angle:** NA

**Low Pitch Angle:** 12.0 +/-0.1

**Stud Protrusion**

**Startlock Angle:** NA

**Feather/High Angle:** 87.0 +/-0.5

**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type                   | Item Number | Description                      | Quantity | Qty Per | Comments   |
|-----------------------------|-------------|----------------------------------|----------|---------|--|
| PROPELLER                   | E4N00013    | HC-E4N-2C/E9512CB-1/BULK/DEICE   | 1        | A/C     | With Bulkhead and De-ice   |
| PROPELLER                   | E4N00013S   | HC-E4N-2C/E9512CB-1/D-630-1      | 1        | A/C     |  |
| PROPELLER                   | E4N00014S   | HC-E4N-2C/E9512CB-1[*1]/D-630-1  | 1        | A/C     |  |
| PROPELLER                   | E4N00015    | HC-E4N-2C/E9512CB-1              | 1        | A/C     |  |
| PROPELLER                   | E4N00015S   | HC-E4N-2C/E9512CB-1/D-630-1P     | 1        | A/C     |  |
| PROPELLER                   | E4N00016    | HC-E4N-2C/E9512CB-1[*1]          | 1        | A/C     |  |
| PROPELLER                   | E4N00016S   | HC-E4N-2C/E9512CB-1[*1]/D-630-1P | 1        | A/C     |  |
| BLADE                       | E9512CB-1   | PCP:BLADE UNIT, ALUM [1,1,1]     | 4        | Prop    |  |
| BLADE                       | E9512CB-1*1 | PCP:BLADE UNIT, ALUM [1,6,1]     | 4        | Prop    |  |
| SPINNER                     | D-630-1     | SPINNER ASSEMBLY                 | 1        | Prop    |  |
| SPINNER                     | D-630-1P    | SPINNER ASSEMBLY                 | 1        | Prop    |  |
| SP MT KIT DE-ICE            | B-3384-9H   | BOLT, 1/4-28, HEX HEAD           | 8        | Prop    |  |
| SP MT KIT DE-ICE            | B-3851-0432 | WASHER                           | 8        | Prop    |  |
| COUNTERWEIGHT               | C-472-10    | PCP:COUNTERWEIGHT                | 1        | Blade   |  |
| COUNTERWEIGHT SLUG A-1712   |             | BOLT,3/8-24,HEX HEAD             | 1        | Blade   |  |
| COUNTERWEIGHT SLUG A-1745   |             | WASHER, 3/8 "                    | 3        | Blade   |  |
| COUNTERWEIGHT SLUG A-2043-1 |             | NUT,3/8-24,HEX,SELF-LOCKING      | 1        | Blade   |  |
| DE-ICER                     | 102878      | DE-ICE BOOT                      | 1        | Blade   | Supercedes 4H1601-10 & 7931-4E1601-10                            |
| DE-ICE KIT PR               | 106138      | DE-ICE KIT (ONE PROP)            | 1        | Prop    | Supersedes 7931-67-870-4 de-ice kit; De-ice kit used with pulley |
| MTG BOLT/STUD               | B-3339-1    | BOLT,MOUNTING,9/16-18,12 POINT   | 8        | Prop    |  |
| MISC ACCES                  | A-2070-7    | SCREW, 1/4-28, BUTTON HEAD       | 8        | Prop    | Used when no pulley is installed                                 |
| OVERHAUL KIT                | HC-E4N-2-OH | O/H KIT                          | 1        | Prop    | For aftermarket use only   |

# HARTZELL

## APPLICATION GUIDE

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**KOREA AEROSPACE INDUSTRIES LTD**

IDS No.: 3226 Rev.: 4 IC Date: 08/14/2015

**Model:** KT-1P (Peruvian Air Force)  
**Trade Name:** Woongbee  
**Aircraft T.C./STC:** TC-09-001 (Korea)  
**Propeller Model:** HC-E4N-2D  
**Propeller T.C.:** P10NE

**Modifier:**

**Engine Model:** PT6A-62

**Power:** 950 HP @ 2000 RPM

**Placard/Restr:** 1. Stabilized ground operation is prohibited between 1300 and 1650 RPM. 2. Intentional power-on spins, inverted left spins, tail slides and dutch rolls are prohibited. 3. Ground idle throttle position must be used for all erect spin maneuvers and flight idle throttle position for inverted right spins. 4. Intentional aerobatic maneuvers are prohibited when aircraft weight is above 6100 lbs. 5. Propeller blades are life limited and must be retired after 7100 hours of operation.

**Blade Model(s):** E9512GB-1\*3  
**Prop Diameter:** 95"-94"

**Notes:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** N/A  
**Low Pitch Angle:** 12.0 +/-0.1  
**Stud Protrusion**

**Startlock Angle:** N/A

**Feather/High Angle:** 87.0 +/-0.5

**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u>            | <u>Item Number</u> | <u>Description</u>             | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>  |
|-----------------------------|--------------------|--------------------------------|-----------------|----------------|--|
| PROPELLER                   | E4N11100S          | HC-E4N-2D/E9512GB-1*3/D-630-1P | 1               | A/C            |  |
| PROPELLER                   | E4N11101S          | HC-E4N-2D/E9512GB-1*3/D-630-1  | 1               | A/C            |  |
| BLADE                       | E9512GB-1*3        | PCP:BLADE UNIT, ALUM [1,6,4]   | 4               | Prop           | Yellow Tips  |
| SPINNER                     | D-630-1            | SPINNER ASSEMBLY               | 1               | Prop           |  |
| SPINNER                     | D-630-1P           | SPINNER ASSEMBLY               | 1               | Prop           |  |
| SP MT KIT DE-ICE            | B-3384-9H          | BOLT, 1/4-28, HEX HEAD         | 8               | Prop           |  |
| SP MT KIT DE-ICE            | B-3851-0432        | WASHER                         | 8               | Prop           |  |
| COUNTERWEIGHT               | C-472-10           | PCP:COUNTERWEIGHT              | 1               | Blade          |  |
| COUNTERWEIGHT SLUG A-1712   |                    | BOLT,3/8-24,HEX HEAD           | 1               | Blade          |  |
| COUNTERWEIGHT SLUG A-1745   |                    | WASHER, 3/8 "                  | 3               | Blade          |  |
| COUNTERWEIGHT SLUG A-2043-1 |                    | NUT,3/8-24,HEX,SELF-LOCKING    | 1               | Blade          |  |
| DE-ICER                     | 102878             | DE-ICE BOOT                    | 1               | Blade          |  |
| DE-ICE KIT PR               | 106138             | DE-ICE KIT (ONE PROP)          | 1               | Prop           | Supersedes 7931-67-870-4 de-ice kit; De-ice kit used with pulley |
| MTG BOLT/STUD               | B-3339-1           | BOLT,MOUNTING,9/16-18,12 POINT | 8               | Prop           |  |
| MISC ACCES                  | A-2070-7           | SCREW, 1/4-28, BUTTON HEAD     | 8               | Prop           | Used when no pulley is installed                                 |
| OVERHAUL KIT                | HC-E4N-2-OH        | O/H KIT                        | 1               | Prop           | For aftermarket use only   |



# HARTZELL

## APPLICATION GUIDE 159

**KOREA AEROSPACE INDUSTRIES LTD**

IDS No.: 3615 Rev.: 1 IC Date: 06/27/2018

**Model:** KT-1S  
**Trade Name:** Woongbee  
**Aircraft T.C./STC:** TC-09-001 (Korea)  
**Propeller Model:** HC-E4N-2D  
**Propeller T.C.:** P10NE

**Modifier:**  
**Engine Model:** PT6A-62  
**Power:** 950 HP @ 2000 RPM  
**Placard/Restr:** 1. Stabilized ground operation is prohibited between 1300 and 1650 RPM. 2. Intentional power-on spins, inverted left spins, tail slides and dutch rolls are prohibited. 3. Ground idle throttle position must be used for all erect spin maneuvers and flight idle throttle position for inverted right spins. 4. Intentional aerobatic maneuvers are prohibited when aircraft weight is above 6100 lbs. 5. Propeller blades are life limited and must be retired after 7100 hours of operation.

**Blade Model(s):** E9512GB-1\*3  
**Prop Diameter:** 95"-94"

**Notes:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** N/A  
**Low Pitch Angle:** 12.0 +/-0.1  
**Stud Protrusion**

**Startlock Angle:** N/A  
**Feather/High Angle:** 87.0 +/-0.5  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u>            | <u>Item Number</u> | <u>Description</u>             | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>  |
|-----------------------------|--------------------|--------------------------------|-----------------|----------------|--|
| PROPELLER                   | E4N11120S          | HC-E4N-2D/E9512GB-1*3/D-630-1P | 1               | A/C            |  |
| PROPELLER                   | E4N11121S          | HC-E4N-2D/E9512GB-1*3/D-630-1  | 1               | A/C            |  |
| BLADE                       | E9512GB-1*3        | PCP:BLADE UNIT, ALUM [1,6,4]   | 4               | Prop           | Yellow Tips  |
| SPINNER                     | D-630-1            | SPINNER ASSEMBLY               | 1               | Prop           |  |
| SPINNER                     | D-630-1P           | SPINNER ASSEMBLY               | 1               | Prop           |  |
| SP MT KIT DE-ICE            | B-3384-9H          | BOLT, 1/4-28, HEX HEAD         | 8               | Prop           |  |
| SP MT KIT DE-ICE            | B-3851-0432        | WASHER                         | 8               | Prop           |  |
| COUNTERWEIGHT               | C-472-10           | PCP:COUNTERWEIGHT              | 1               | Blade          |  |
| COUNTERWEIGHT SLUG A-1712   |                    | BOLT,3/8-24,HEX HEAD           | 1               | Blade          |  |
| COUNTERWEIGHT SLUG A-1745   |                    | WASHER, 3/8 "                  | 3               | Blade          |  |
| COUNTERWEIGHT SLUG A-2043-1 |                    | NUT,3/8-24,HEX,SELF-LOCKING    | 1               | Blade          |  |
| DE-ICER                     | 102878             | DE-ICE BOOT                    | 1               | Blade          |  |
| DE-ICE KIT PR               | 106138             | DE-ICE KIT (ONE PROP)          | 1               | Prop           | Supersedes 7931-67-870-4 de-ice kit; De-ice kit used with pulley |
| MTG BOLT/STUD               | B-3339-1           | BOLT,MOUNTING,9/16-18,12 POINT | 8               | Prop           |  |
| MISC ACCES                  | A-2070-7           | SCREW, 1/4-28, BUTTON HEAD     | 8               | Prop           | Used when no pulley is installed                                 |
| OVERHAUL KIT                | HC-E4N-2-OH        | O/H KIT                        | 1               | Prop           | For aftermarket use only   |

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## APPLICATION GUIDE

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**KOREA AEROSPACE INDUSTRIES LTD**

**IDS No.:** 2795      **Rev.:** 5      **IC Date:** 06/07/2016

**Model:** KT-1T (Turkish Air Force)  
**Trade Name:**  
**Aircraft T.C./STC:** TC-09-001 (Korea)  
**Propeller Model:** HC-E4N-2C  
**Propeller T.C.:** P10NE

**Modifier:**  
**Engine Model:** PT6A-62  
**Power:** 950 HP @ 2000 RPM  
**Placard/Restr:** "Stabilized ground operation is prohibited between 1300 and 1650 RPM. Intentional power on spins, tail slides, stall turns, and Dutch Rolls are prohibited."

**Blade Model(s):** E9512CB-1\*2  
**Prop Diameter:** 95"

**Notes:** Reference Manual 149 for Airworthiness Limitations.

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.0 +-0.1  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 87.0 +-0.5  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u>            | <u>Item Number</u> | <u>Description</u>             | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>  |
|-----------------------------|--------------------|--------------------------------|-----------------|----------------|--|
| PROPELLER                   | E4N00018           | HC-E4N-2C/E9512CB-1*2          | 1               | A/C            | Less spinner and deice   |
| PROPELLER                   | E4N00019S          | HC-E4N-2C/E9512CB-1*2/D-630-1P | 1               | A/C            |  |
| BLADE                       | E9512CB-1*2        | PCP:BLADE UNIT, ALUM [1,23,4]  | 4               | Prop           | Photo luminescent tip stripes                                    |
| SPINNER                     | D-630-1            | SPINNER ASSEMBLY               | 1               | Prop           |  |
| SPINNER                     | D-630-1P           | SPINNER ASSEMBLY               | 1               | Prop           |  |
| SP MT KIT DE-ICE            | B-3384-9H          | BOLT, 1/4-28, HEX HEAD         | 8               | Prop           |  |
| SP MT KIT DE-ICE            | B-3851-0432        | WASHER                         | 8               | Prop           |  |
| COUNTERWEIGHT               | C-472-10           | PCP:COUNTERWEIGHT              | 1               | Blade          |  |
| COUNTERWEIGHT SLUG A-1712   |                    | BOLT,3/8-24,HEX HEAD           | 1               | Blade          |  |
| COUNTERWEIGHT SLUG A-1745   |                    | WASHER, 3/8 "                  | 3               | Blade          |  |
| COUNTERWEIGHT SLUG A-2043-1 |                    | NUT,3/8-24,HEX,SELF-LOCKING    | 1               | Blade          |  |
| DE-ICER                     | 102878             | DE-ICE BOOT                    | 1               | Blade          | Supersedes 4H1601-10 & 7931-4E1601-10                            |
| DE-ICE KIT PR               | 106138             | DE-ICE KIT (ONE PROP)          | 1               | Prop           | Supersedes 7931-67-870-4 de-ice kit; De-ice kit used with pulley |
| MTG BOLT/STUD               | B-3339-1           | BOLT,MOUNTING,9/16-18,12 POINT | 8               | Prop           |  |
| MISC ACCES                  | A-2070-7           | SCREW, 1/4-28, BUTTON HEAD     | 8               | Prop           | Used when no pulley is installed                                 |
| OVERHAUL KIT                | HC-E4N-2-OH        | O/H KIT                        | 1               | Prop           | For aftermarket use only   |

# HARTZELL

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**KOREA AEROSPACE INDUSTRIES LTD**

IDS No.: 1407 Rev.: 6 IC Date: 08/14/2015

**Model:** KT-1  
**Trade Name:** WOONGBEE  
**Aircraft T.C./STC:** Unknown  
**Propeller Model:** HC-E4N-2  
**Propeller T.C.:** P10NE

**Modifier:**  
**Engine Model:** PT6A-62  
**Power:** 950 HP @ 2000 RPM  
**Placard/Restr:** "Stabilized ground operation is prohibited between 1300 and 1650 RPM. Intentional power on spins, tail slides, stall turns, and dutch rolls are prohibited."

**Blade Model(s):** E9512CB-1  
 E9512CB-1\*1

**Notes:** Reference Manual 149 for Airworthiness Limitations.

**Prop Diameter:** 95"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.0 +- 0.1  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 87.0 +-0.5  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type                   | Item Number | Description                     | Quantity | Qty Per | Comments   |
|-----------------------------|-------------|---------------------------------|----------|---------|--|
| PROPELLER                   | E4N00001    | HC-E4N-2/E9512CB-1              | 1        | A/C     | Without De-Ice Kit                                       |
| PROPELLER                   | E4N00001KD  | HC-E4N-2/E9512CB-1              | 1        | A/C     | Without De-Ice Kit                                       |
| PROPELLER                   | E4N00001S   | HC-E4N-2/E9512CB-1/D-630-1P     | 1        | A/C     | Without De-Ice Kit                                       |
| PROPELLER                   | E4N00002S   | HC-E4N-2/E9512CB-1/D-630-1P     | 1        | A/C     | Contains 67-870-1 De-Ice Kit                             |
| PROPELLER                   | E4N00002SKD | HC-E4N-2/E9512CB-1/D-630-1P     | 1        | A/C     | Contains 67-870-1 De-Ice Kit                             |
| PROPELLER                   | E4N00003    | HC-E4N-2/E9512CB-1/BULK/DEICE   | 1        | A/C     | With Bulkhead and De-ice kit                             |
| PROPELLER                   | E4N00003S   | HC-E4N-2/E9512CB-1/D-630-1      | 1        | A/C     | Contains 67-870-1 De-Ice Kit                             |
| PROPELLER                   | E4N00005    | HC-E4N-2/E9512CB-1[*1]          | 1        | A/C     | Without De-Ice Kit                                       |
| PROPELLER                   | E4N00005KD  | HC-E4N-2/E9512CB-1[*1]          | 1        | A/C     | Without De-Ice Kit                                       |
| PROPELLER                   | E4N00005S   | HC-E4N-2/E9512CB-1[*1]/D-630-1P | 1        | A/C     | Without De-Ice Kit                                       |
| PROPELLER                   | E4N00007S   | HC-E4N-2/E9512CB-1[*1]/D-630-1P | 1        | A/C     | Contains 67-870-1 De-Ice Kit                             |
| PROPELLER                   | E4N00007SKD | HC-E4N-2/E9512CB-1[*1]/D-630-1P | 1        | A/C     | Contains 67-870-1 De-Ice Kit                             |
| PROPELLER                   | E4N00009S   | HC-E4N-2/E9512CB-1[*1]/D-630-1  | 1        | A/C     | Contains 67-870-1 De-Ice Kit                             |
| BLADE                       | E9512CB-1   | PCP:BLADE UNIT, ALUM [1,1,1]    | 4        | Prop    |  |
| BLADE                       | E9512CB-1*1 | PCP:BLADE UNIT, ALUM [1,6,1]    | 4        | Prop    |  |
| SPINNER                     | D-630-1     | SPINNER ASSEMBLY                | 1        | Prop    |  |
| SPINNER                     | D-630-1P    | SPINNER ASSEMBLY                | 1        | Prop    |  |
| SP MT KIT DE-ICE            | A-2070-7    | SCREW, 1/4-28, BUTTON HEAD      | 8        | Prop    |  |
| COUNTERWEIGHT               | C-472-10    | PCP:COUNTERWEIGHT               | 1        | Blade   |  |
| COUNTERWEIGHT SLUG A-1712   |             | BOLT,3/8-24,HEX HEAD            | 1        | Blade   |  |
| COUNTERWEIGHT SLUG A-1745   |             | WASHER, 3/8 "                   | 3        | Blade   |  |
| COUNTERWEIGHT SLUG A-2043-1 |             | NUT,3/8-24,HEX,SELF-LOCKING     | 1        | Blade   |  |
| DE-ICER                     | 102878      | DE-ICE BOOT                     | 1        | Blade   | Supersedes 4H1601-10 & 7931-4E1601-10                    |
| DE-ICE KIT PR               | 106146      | DE-ICE KIT (ONE PROP)           | 1        | Prop    | Supersedes 7931-67-870-1; De-ice kit used without pulley |
| MTG BOLT/STUD               | B-3339-1    | BOLT,MOUNTING,9/16-18,12 POINT  | 8        | Prop    |  |
| OVERHAUL KIT                | HC-E4N-2-OH | O/H KIT                         | 1        | Prop    | For aftermarket use only                                 |

# HARTZELL

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### KOREA AEROSPACE INDUSTRY

**Model:** KC-100  
**Trade Name:**  
**Aircraft T.C./STC:** Experimental  
**Propeller Model:** PHC-J3Y1F-1N  
**Propeller T.C.:** P36EA  
**Blade Model(s):** N7605  
 N7605B  
**Prop Diameter:** 78"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** 15.8+-0.2  
**Stud Protrusion:** 1.450 +/- 0.030

**IDS No.:** 2886      **Rev.:** 7      **IC Date:** 04/08/2022

**Modifier:**  
**Engine Model:** TSIOF-550-K  
**Power:** 315 HP @ 2500 RPM  
**Placard/Restr:** None  
**Notes:**

**Startlock Angle:**  
**Feather/High Angle:** 35.0 +-1.0  
**Cwt Angle:**

#### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:**

#### Hartzell Approved Items:

| Item Type     | Item Number | Description                    | Quantity | Qty Per | Comments   |
|---------------|-------------|--------------------------------|----------|---------|--|
| PROPELLER     | J3F30009S   | PHC-J3Y1F-1N/N7605/A-2295-13P  | 1        | A/C     | Propeller assembly including A-2295-13P Spinner, no anti-ice   |
| PROPELLER     | J3F30503S   | PHC-J3Y1F-1N/N7605B/A-2295-13P | 1        | A/C     | Propeller assembly including A-2295-13P Spinner, with anti-ice |
| BLADE         | N7605       | PCP:BLADE ASSY, COMPOSITE      | 3        | Prop    | Blade, no anti-ice   |
| BLADE         | N7605B      | PCP:BLADE ASSY, COMP. [3,1,1]  | 3        | Prop    | Blade with C-2131-9 anti-ice boot                              |
| SPINNER       | A-2295-13   | SPINNER ASSEMBLY               | 1        | Prop    | Buffed spinner (suitable for paint)                            |
| SPINNER       | A-2295-13P  | SPINNER ASSEMBLY               | 1        | Prop    | Polished spinner   |
| GOVERNOR      | S-1-42      | GOVERNOR ASSEMBLY, S-1-42      | 1        | A/C     |  |
| SPIN MTG KIT  | A-2476-9    | SPINNER - MTG KIT              | 1        | Prop    |  |
| DE-ICER       | C-2131-9    | BOOT, ANTI-ICING               | 1        | Blade   |  |
| DE-ICE KIT PR | 103682      | ANTI-ICE KIT (ONE PROP)        | 1        | Prop    |  |
| MTG BOLT/STUD | A-2429-4    | STUD, MOUNTING, 1/2-20         | 6        | Prop    |  |

### KOREAN AIR AIRCRAFT

**Model:** CHK91-A1  
**Trade Name:**  
**Aircraft T.C./STC:** Unknown  
**Propeller Model:** HC-C2YK-1BF  
**Propeller T.C.:** P-920  
**Blade Model(s):** F7666A-2  
**Prop Diameter:** 74" TO 72"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.0 +-0.1  
**Stud Protrusion:**

**IDS No.:** 606      **Rev.:** -      **DM Date:** 10/01/1992

**Modifier:**  
**Engine Model:** IO-360-A1B6  
**Power:** 200 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 29.0 +-1.0  
**Cwt Angle:**

#### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:**

#### Hartzell Approved Items:

| Item Type     | Item Number | Description              | Quantity | Qty Per | Comments |
|---------------|-------------|--------------------------|----------|---------|----------|
| BLADE         | F7666A-2    | PCP:BLADE UNIT, ALUMINUM | 2        | Prop    |          |
| MTG BOLT/STUD | A-2067      | STUD, MOUNTING, 1/2-20   | 6        | Prop    |          |

# HARTZELL

## APPLICATION GUIDE 159

KWAD

IDS No.: 607      Rev.: 1      D      Date: 01/07/2011

**Model:** SUPER-V  
**Trade Name:** SUPER-V  
**Aircraft T.C./STC:** A5IN, 4A29  
**Propeller Model:** HC-92ZK-2B  
**Propeller T.C.:** P892  
**Blade Model(s):** 8447-12A  
    8447N-12A  
**Prop Diameter:** 71.6" TO 70"

**Modifier:**  
**Engine Model:** O-360-A1D, -A1A, -A1C  
**Power:** 180 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.3 +-0.1  
**Stud Protrusion**

**Startlock Angle:**  
**Feather/High Angle:** 24.7 +-1.0  
**Cwt Angle:** Positive

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>            | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>      |
|------------------|--------------------|-------------------------------|-----------------|----------------|----------------------|
| BLADE            | 8447-12A           | BLADE UNIT, ALUMINUM          | 2               | Prop           |                      |
| BLADE            | 8447N-12A          | PCP:BLADE UNIT, ALUMINUM      | 2               | Prop           |                      |
| SPINNER          | 835-30             | SPINNER ASSEMBLY              | 1               | Prop           |                      |
| SPINNER          | 835-6              | IDS Item                      | 1               | Prop           | Superceded by 835-30 |
| MTG BOLT/STUD    | A-1328             | BOLT,MOUNTING,1/2-20,12 POINT | 4               | Prop           |                      |
| MTG BOLT/STUD    | A-1333             | BOLT,MOUNTING,1/2-20,HEX HEAD | 2               | Prop           |                      |

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# HARTZELL

## APPLICATION GUIDE 159

LAKE (REVO)

IDS No.: 608      Rev.: -      DM Date: 07/26/2004

**Model:** LA-4  
**Trade Name:** AMPHIBIAN  
**Aircraft T.C./STC:** 1A13  
**Propeller Model:** HC-92WK-8L  
**Propeller T.C.:** P16EA  
**Blade Model(s):** L8447-12A  
                           L8447N-12A  
                           LW8447-12A  
                           LW8447N-12A  
**Prop Diameter:** 72" TO 70.5"

**Modifier:**  
**Engine Model:** O-360-A1A, -A1D  
**Power:** 180 HP @ 2700 RPM  
**Placard/Restr:**

**Notes:** Aircraft also approved with HC-92ZK-8L/L8447-12A. TC doesn't specify angular tolerance. Minimum HP angle corresponds to TC.

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 11.5 +-0.2  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 25.4 +-2.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>            | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>         |
|------------------|--------------------|-------------------------------|-----------------|----------------|-------------------------|
| BLADE            | L8447-12A          | IDS Item                      | 2               | Prop           |                         |
| BLADE            | L8447N-12A         | IDS Item                      | 2               | Prop           |                         |
| BLADE            | LW8447-12A         | BLADE UNIT, ALUMINUM          | 2               | Prop           | REPLACED BY LW8447N-12A |
| BLADE            | LW8447N-12A        | PCP:BLADE UNIT, ALUMINUM      | 2               | Prop           |                         |
| SPINNER          | 835-30P            | SPINNER ASSEMBLY              | 1               | Prop           |                         |
| GOVERNOR         | F2-3               | IDS Item                      | 1               | A/C            |                         |
| GOVERNOR         | F2-6A              | GOVERNOR ASSEMBLY, F-2-()     | 1               | A/C            |                         |
| MTG BOLT/STUD    | A-1333             | BOLT,MOUNTING,1/2-20,HEX HEAD | 2               | Prop           |                         |
| MTG BOLT/STUD    | A-1333-3           | BOLT,MOUNTING,1/2-20,HEX HEAD | 2               | Prop           |                         |
| MTG BOLT/STUD    | A-1333-6           | BOLT,MOUNTING,1/2-20,HEX HEAD | 2               | Prop           |                         |

# HARTZELL

## APPLICATION GUIDE

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LAKE (REVO)

**Model:** LA-4-200  
**Trade Name:** BUCANEER  
**Aircraft T.C./STC:** 1A13  
**Propeller Model:** HC-C2YK-1BL(F)  
**Propeller T.C.:** P-920

**Blade Model(s):** FL7666A-2  
**Prop Diameter:** 74" TO 72"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 14.0 +-0.1  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:** NONE

**IDS No.:** 609 **Rev.:** 1 **IC Date:** 07/07/2015

**Modifier:**

**Engine Model:** IO-360-A1B

**Power:** 200 HP @ 2700 RPM

**Placard/Restr:** Avoid continuous operation between 2000 and 2350 RPM.

**Notes:** Pusher application without spinner or SMK

**Startlock Angle:** NA

**Feather/High Angle:** 29.0 +-2.0

**Cwt Angle:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>         | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|----------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | C2K00210           | HC-C2YK-1BLF/FL7666A-2     | 1               | A/C            |                          |
| BLADE            | FL7666A-2          | PCP:BLADE UNIT, ALUMINUM   | 2               | Prop           |                          |
| GOVERNOR         | F2-6A              | GOVERNOR ASSEMBLY, F-2-( ) | 1               | A/C            |                          |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20     | 6               | Prop           |                          |
| OVERHAUL KIT     | HC-C2YK-1BLF-OH    | O/H KIT                    | 1               | Prop           | For aftermarket use only |

LAKE (REVO)

**Model:** LA-4-200  
**Trade Name:** BUCANEER  
**Aircraft T.C./STC:** STC-SA4NE  
**Propeller Model:** HC-E2YR-1BLF  
**Propeller T.C.:** P9EA

**Blade Model(s):** FL7666A-2  
**Prop Diameter:** 74" NO CUT OFF

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 14.0 +-0.2  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 612 **Rev.:** - **DM Date:** 03/16/2006

**Modifier:** AEROFAB INC

**Engine Model:** IO-360-A1B6

**Power:** 200 HP @ 2700 RPM

**Placard/Restr:** Do not exceed 24 inches manifold pressure below 2450 RPM

**Notes:**

**Startlock Angle:** NA

**Feather/High Angle:** 29.0 +-2.0

**Cwt Angle:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>          | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|-----------------------------|-----------------|----------------|-----------------|
| PROPELLER        | E2R00065           | HC-E2YR-1BLF/FL7666A-2/SM19 | 1               | A/C            |                 |
| BLADE            | FL7666A-2          | PCP:BLADE UNIT, ALUMINUM    | 2               | Prop           |                 |
| SPINNER          | 835-50L            | SPINNER ASSEMBLY            | 1               | Prop           |                 |
| SPINNER          | 835-50LP           | SPINNER ASSEMBLY            | 1               | Prop           |                 |
| GOVERNOR         | F2-6A              | GOVERNOR ASSEMBLY, F-2-( )  | 1               | A/C            |                 |
| SPIN MTG KIT     | A-2476-19          | SPINNER - MTG KIT           | 1               | Prop           |                 |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20      | 6               | Prop           |                 |



# HARTZELL

## APPLICATION GUIDE

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**LAKE (REVO)**

**Model:** LA-4-200  
**Trade Name:** BUCANEER  
**Aircraft T.C./STC:** STC-SA7NE  
**Propeller Model:** HC-C3YR-1RLF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** FL7663-8R  
**Prop Diameter:** 70"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 10.5 +-0.1  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number | Description              | Quantity | Qty Per | Comments |
|---------------|-------------|--------------------------|----------|---------|----------|
| PROPELLER     | C3R00153    | HC-C3YR-1RLF/FL7663-8R   | 1        | A/C     |          |
| BLADE         | FL7663-8R   | PCP:BLADE UNIT, ALUMINUM | 3        | Prop    |          |
| GOVERNOR      | F2          | IDS Item                 | 1        | A/C     |          |
| MTG BOLT/STUD | A-2067      | STUD, MOUNTING, 1/2-20   | 6        | Prop    |          |

**IDS No.:** 614      **Rev.:** -      **DM Date:** 10/01/1992

**Modifier:** AEROFAB INC  
**Engine Model:** IO-360-A1B6  
**Power:** 200 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 25.6 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

**LAKE (REVO)**

**Model:** LA-4-200  
**Trade Name:** BUCANEER  
**Aircraft T.C./STC:** STC-SA360GL  
**Propeller Model:** HC-C2YK-1BLF  
**Propeller T.C.:** P-920  
  
**Blade Model(s):** FL7666A-4Q  
**Prop Diameter:** 72"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 14.0 +-0.1  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number     | Description              | Quantity | Qty Per | Comments                 |
|---------------|-----------------|--------------------------|----------|---------|--------------------------|
| PROPELLER     | C2K00220        | HC-C2YK-1BLF/FL7666A-4Q  | 1        | A/C     |                          |
| BLADE         | FL7666A-4Q      | PCP:BLADE UNIT, ALUMINUM | 2        | Prop    |                          |
| MTG BOLT/STUD | A-2067          | STUD, MOUNTING, 1/2-20   | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-C2YK-1BLF-OH | O/H KIT                  | 1        | Prop    | For aftermarket use only |

**IDS No.:** 611      **Rev.:** 1      **IC Date:** 07/07/2015

**Modifier:** ROBERT W HALDI  
**Engine Model:** IO-360-(A,C)1(A,B,C),D1A  
**Power:** 200 HP @ 2700 RPM  
**Placard/Restr:** Avoid continuous operation between 2000 and 2350 RPM

**Notes:**  
  
**Startlock Angle:** NA  
**Feather/High Angle:** 29.0 +-2.0  
**Cwt Angle:**

**Non-HPI Governor:**

# HARTZELL

## APPLICATION GUIDE

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### LAKE (REVO)

**Model:** LA-4-200  
**Trade Name:** BUCANEER  
**Aircraft T.C./STC:** STC-SA631CE  
**Propeller Model:** HC-C2YK-1BL(F)  
**Propeller T.C.:** P-920  
**Blade Model(s):** FL7666A-2  
**Prop Diameter:** 74"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:**  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number | Description              | Quantity | Qty Per | Comments |
|---------------|-------------|--------------------------|----------|---------|----------|
| BLADE         | FL7666A-2   | PCP:BLADE UNIT, ALUMINUM | 2        | Prop    |          |
| MTG BOLT/STUD | A-2067      | STUD, MOUNTING, 1/2-20   | 6        | Prop    |          |

**IDS No.:** 613      **Rev.:** -      **DM Date:** 10/01/1992

**Modifier:** LAKE 4 SALES CORP.  
**Engine Model:** IO-360-A1A  
**Power:** 200 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:**  
**Cwt Angle:**

**Non-HPI Governor:**

### LAKE (REVO)

**Model:** LA-4 S/N 345  
**Trade Name:** Amphibian  
**Aircraft T.C./STC:** SA02203SE  
**Propeller Model:** HC-C2YK-1BLF  
**Propeller T.C.:** P-920  
**Blade Model(s):** FL7666A-4Q  
**Prop Diameter:** 74" to 72"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** 14.0 +/- 0.1  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number     | Description              | Quantity | Qty Per | Comments                 |
|---------------|-----------------|--------------------------|----------|---------|--------------------------|
| PROPELLER     | C2K00220        | HC-C2YK-1BLF/FL7666A-4Q  | 1        | A/C     |                          |
| BLADE         | FL7666A-4Q      | PCP:BLADE UNIT, ALUMINUM | 2        | Prop    |                          |
| MTG BOLT/STUD | A-2067          | STUD, MOUNTING, 1/2-20   | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-C2YK-1BLF-OH | O/H KIT                  | 1        | Prop    | For aftermarket use only |

**IDS No.:** 3142      **Rev.:** 2      **IC Date:** 03/07/2017

**Modifier:** Edward F. Forner  
**Engine Model:** O-360-A1A  
**Power:** 180 HP @ 2700 RPM  
**Placard/Restr:**

**Notes:** Avoid continuous operation between 2,000 and 2,250 RPM

**Startlock Angle:**  
**Feather/High Angle:** 29.0 +/- 2.0  
**Cwt Angle:**

**Non-HPI Governor:**

# HARTZELL

## APPLICATION GUIDE 159

**LAKE (REVO)**

IDS No.: 616      Rev.: 1      IC      Date: 07/16/2015

**Model:** 250  
**Trade Name:** RENEGADE  
**Aircraft T.C./STC:** 1A13  
**Propeller Model:** HC-E3YR-1RLF  
**Propeller T.C.:** P33EA  
**Blade Model(s):** FL7663D-2Q  
**Prop Diameter:** 76" NO CUT OFF

**Modifier:**  
**Engine Model:** IO-540-C4B5  
**Power:** 250 HP @ 2575 RPM  
**Placard/Restr:**  
**Notes:** 10/2/97 revision removed the 36.6 deg. high blade angle option and created IDS #1441

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 10.5 +-0.1  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 26.0 +- 1.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>          | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|-----------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | E3R00001           | HC-E3YR-1RLF/FL7663D-2Q/SM7 | 1               | A/C            |                          |
| BLADE            | FL7663D-2Q         | PCP:BLADE UNIT, ALUMINUM    | 3               | Prop           |                          |
| SPINNER          | D-5495-L           | SPINNER ASSEMBLY            | 1               | Prop           |                          |
| SPINNER          | D-5495LP           | IDS Item                    | 1               | Prop           |                          |
| GOVERNOR         | F2-6A              | GOVERNOR ASSEMBLY, F-2-( )  | 1               | A/C            |                          |
| GOVERNOR         | F2-6AZ             | GOVERNOR ASSEMBLY, F-2-( )  | 1               | A/C            |                          |
| GOVERNOR         | V3-3               | GOVERNOR ASSEMBLY, V-3-( )  | 1               | A/C            |                          |
| SPIN MTG KIT     | A-2476-7           | SPINNER - MTG KIT           | 1               | Prop           |                          |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20      | 6               | Prop           |                          |
| OVERHAUL KIT     | HC-E3YR-1RLF-OH    | O/H KIT                     | 1               | Prop           | For aftermarket use only |

# HARTZELL

## APPLICATION GUIDE 159

**LAKE (REVO)**

IDS No.: 1441      Rev.: 1      IC      Date: 07/16/2015

**Model:** 250  
**Trade Name:** RENEGADE  
**Aircraft T.C./STC:** 1A13  
**Propeller Model:** HC-E3YR-1RLF  
**Propeller T.C.:** P33EA  
**Blade Model(s):** FL7663D-2Q  
**Prop Diameter:** 76" NO CUT OFF

**Modifier:**  
**Engine Model:** IO-540-C4B5  
**Power:** 250 HP @ 2575 RPM  
**Placard/Restr:**

**Notes:** 10/2/96 revision created IDS # 1441 by removing 36.6 deg. high blade angle from IDS # 616

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 10.5 +/-0.1  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 36.6 +/- 1.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>          | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|-----------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | E3R00018           | HC-E3YR-1RLF/FL7663D-2Q/SM7 | 1               | A/C            |                          |
| BLADE            | FL7663D-2Q         | PCP:BLADE UNIT, ALUMINUM    | 3               | Prop           |                          |
| SPINNER          | D-5495-L           | SPINNER ASSEMBLY            | 1               | A/C            |                          |
| SPINNER          | D-5495LP           | IDS Item                    | 1               | A/C            |                          |
| GOVERNOR         | F2-6A              | GOVERNOR ASSEMBLY, F-2-( )  | 1               | A/C            |                          |
| GOVERNOR         | F2-6AZ             | GOVERNOR ASSEMBLY, F-2-( )  | 1               | A/C            |                          |
| GOVERNOR         | V3-3               | GOVERNOR ASSEMBLY, V-3-( )  | 1               | A/C            |                          |
| SPIN MTG KIT     | A-2476-7           | SPINNER - MTG KIT           | 1               | Prop           |                          |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20      | 6               | Prop           |                          |
| OVERHAUL KIT     | HC-E3YR-1RLF-OH    | O/H KIT                     | 1               | Prop           | For aftermarket use only |

# HARTZELL

## APPLICATION GUIDE 159

**LAKE (REVO)**

IDS No.: 1782      Rev.: 1      IC      Date: 07/16/2015

**Model:** 250  
**Trade Name:** TURBO RENEGADE  
**Aircraft T.C./STC:** SA469NE  
**Propeller Model:** HC-E3YR-1RLF  
**Propeller T.C.:** P33EA  
**Blade Model(s):** FL7663D-2Q  
**Prop Diameter:** 76" NO CUT OFF

**Modifier:** REVO, INC.  
**Engine Model:** TIO-540-AA1AD  
**Power:** 270 HP @ 2575 RPM  
**Placard/Restr:**  
**Notes:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.4 +-0.1  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 36.6 +- 1.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>          | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|-----------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | E3R00002           | HC-E3YR-1RLF/FL7663D-2Q/SM7 | 1               | A/C            |                          |
| BLADE            | FL7663D-2Q         | PCP:BLADE UNIT, ALUMINUM    | 3               | Prop           |                          |
| SPINNER          | D-5495-L           | SPINNER ASSEMBLY            | 1               | Prop           |                          |
| SPINNER          | D-5495LP           | IDS Item                    | 1               | Prop           |                          |
| GOVERNOR         | F2-6A              | GOVERNOR ASSEMBLY, F-2-( )  | 1               | A/C            |                          |
| GOVERNOR         | F2-6AZ             | GOVERNOR ASSEMBLY, F-2-( )  | 1               | A/C            |                          |
| GOVERNOR         | V3-3               | GOVERNOR ASSEMBLY, V-3-( )  | 1               | A/C            |                          |
| SPIN MTG KIT     | A-2476-7           | SPINNER - MTG KIT           | 1               | Prop           |                          |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20      | 6               | Prop           |                          |
| OVERHAUL KIT     | HC-E3YR-1RLF-OH    | O/H KIT                     | 1               | Prop           | For aftermarket use only |

# HARTZELL

## APPLICATION GUIDE

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LANCAIR

IDS No.: 3475 Rev.: 2 IC Date: 02/13/2020

**Model:** Evolution  
**Trade Name:** Evolution  
**Aircraft T.C./STC:** Experimental  
**Propeller Model:** 5D3-N338A2  
**Propeller T.C.:** P00015CH

**Modifier:**  
**Engine Model:** PT6A-135A  
**Power:** 750 HP @ 1900 RPM  
**Placard/Restr:** Stabilized ground operation is prohibited between 500 and 1100 RPM. The propeller may be operated at or below 500 RPM when feathered.

**Blade Model(s):** 78D01AB  
**Prop Diameter:** 82.5"

**Notes:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** -11.0 +/-0.5  
**Low Pitch Angle:** 15.8 +/-0.1

**Startlock Angle:** NA  
**Feather/High Angle:** 83.2 +/-0.5

**Stud Protrusion**

**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>                | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|-----------------------------------|-----------------|----------------|-----------------|
| PROPELLER        | 5DN00800S          | 5D3-N338A2/78D01AB/105951P        | 1               | A/C            |                 |
| PROPELLER        | 5DN00800SKD        | 5D3-N338A2/78D01AB/105951P        | 1               | A/C            |                 |
| BLADE            | 78D01AB            | PCP: BLADE ASSY, COMP             | 5               | Prop           |                 |
| SPINNER          | 105951-1           | SPINNER ASSEMBLY                  | 1               | A/C            |                 |
| SPINNER          | 105951-1P          | SPINNER ASSEMBLY                  | 1               | A/C            |                 |
| SPINNER          | 105951P            | SPINNER ASSEMBLY                  | 1               | A/C            |                 |
| SPIN MTG KIT     | B-3384-2H          | BOLT, 1/4-28, HEX HEAD            | 10              | Prop           |                 |
| SPIN MTG KIT     | B-3851-0432        | WASHER                            | 10              | Prop           |                 |
| SP MT KIT DE-ICE | A-2070-6           | SCREW, 1/4-28, BUTTON HEAD        | 10              | Prop           |                 |
| DE-ICER          | 106167             | DE-ICE BOOT                       | 1               | Blade          |                 |
| DE-ICE KIT PR    | 106285             | DE-ICE KIT (ONE PROP)             | 1               | Prop           |                 |
| DE-ICE KIT PR    | 106285*            | DE-ICE KIT (ONE PROP)             | 1               | Prop           |                 |
| DE-ICE KIT A/F   | 106592             | AIRFRAME DE-ICE KIT               | 1               | A/C            |                 |
| MTG BOLT/STUD    | B-3339-1           | BOLT, MOUNTING, 9/16-18, 12 POINT | 8               | Prop           |                 |
| MISC ACCES       | A-3044             | BLOCK, BETA FEEDBACK- ASSEMBLY    | 1               | Prop           |                 |

# HARTZELL

## APPLICATION GUIDE 159

**LANCAIR**

**Model:** LANCAIR IV  
**Trade Name:**  
**Aircraft T.C./STC:** Experimental  
**Propeller Model:** PHC-H3YF-1RF  
**Propeller T.C.:** P35EA  
**Blade Model(s):** F7490  
**Prop Diameter:** 76"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.5 +-0.1  
**Stud Protrusion:** 1.450 +-0.030

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number     | Description                | Quantity | Qty Per | Comments                 |
|---------------|-----------------|----------------------------|----------|---------|--------------------------|
| PROPELLER     | H3F00006        | PHC-H3YF-1RF/F7490/SM29    | 1        | A/C     |                          |
| BLADE         | F7490           | PCP:BLADE UNIT, ALUMINUM   | 3        | Prop    |                          |
| SPINNER       | D-6841-P        | SPINNER ASSEMBLY           | 1        | Prop    |                          |
| GOVERNOR      | E6              | GOVERNOR ASSEMBLY, E-6-( ) | 1        | A/C     |                          |
| SPIN MTG KIT  | A-2476-29       | SPINNER - MTG KIT          | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2429-4        | STUD, MOUNTING, 1/2-20     | 6        | Prop    |                          |
| OVERHAUL KIT  | PHC-H3YF-1RF-OH | O/H KIT                    | 1        | Prop    | For aftermarket use only |

**IDS No.:** 1293      **Rev.:** 1      **IC Date:** 07/16/2015

**Modifier:**  
**Engine Model:** IO-550-G  
**Power:** 300 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 40.0 MIN  
**Cwt Angle:**

**Non-HPI Governor:**

**LANCAIR**

**Model:** LANCAIR IV  
**Trade Name:**  
**Aircraft T.C./STC:** Experimental  
**Propeller Model:** HC-H3YF-1RF  
**Propeller T.C.:** P35EA  
**Blade Model(s):** F7693DF  
**Prop Diameter:** 76"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.0 +-0.2  
**Stud Protrusion:** 1.450 +-0.030

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number    | Description              | Quantity | Qty Per | Comments                 |
|---------------|----------------|--------------------------|----------|---------|--------------------------|
| PROPELLER     | H3F00310       | HC-H3YF-1RF/F7693DF/SM29 | 1        | A/C     |                          |
| PROPELLER     | H3F00310KD     | HC-H3YF-1RF/F7693DF/SM29 | 1        | A/C     |                          |
| BLADE         | F7693DF        | PCP:BLADE UNIT, ALUMINUM | 3        | Prop    |                          |
| SPINNER       | C-6446-1       | SPINNER ASSEMBLY         | 1        | Prop    |                          |
| SPINNER       | C-6446-1P      | SPINNER ASSEMBLY         | 1        | Prop    |                          |
| GOVERNOR      | S-1-8          | GOVERNOR ASSEMBLY, S-1-8 | 1        | Prop    |                          |
| SPIN MTG KIT  | A-2476-29      | SPINNER - MTG KIT        | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2429-4       | STUD, MOUNTING, 1/2-20   | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-H3YF-1RF-OH | O/H KIT                  | 1        | Prop    | For aftermarket use only |

**IDS No.:** 1883      **Rev.:** 3      **IC Date:** 06/09/2016

**Modifier:**  
**Engine Model:** TSIO-550-B,-E  
**Power:** 350 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 43.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

# HARTZELL

## APPLICATION GUIDE

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**LANCAIR**

**Model:** LANCAIR IV  
**Trade Name:**  
**Aircraft T.C./STC:** Experimental  
**Propeller Model:** HC-H3YF-2UF  
**Propeller T.C.:** P35EA  
**Blade Model(s):** FC7693DF  
 FC7693DF\*3  
**Prop Diameter:** 78" TO 75"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.0 +-0.2  
**Stud Protrusion** 1.450 +-0.030

**IDS No.:** 1841 **Rev.:** - **DM Date:** 07/17/2007

**Modifier:**  
**Engine Model:** TSIO-550-B  
**Power:** 350 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** 18.0 +-1.5  
**Feather/High Angle:** 82.0 +-1.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type     | Item Number | Description                   | Quantity | Qty Per | Comments        |
|---------------|-------------|-------------------------------|----------|---------|-----------------|
| PROPELLER     | H3F00100    | HC-H3YF-2UF/FC7693DF/SM17     | 1        | A/C     |                 |
| PROPELLER     | H3F00100KD  | HC-H3YF-2UF/FC7693DF/SM17     | 1        | A/C     |                 |
| PROPELLER     | H3F00101    | HC-H3YF-2UF/FC7693DF[*3]/SM17 | 0        |         |                 |
| BLADE         | FC7693DF    | PCP:BLADE UNIT, ALUM [1,1,1]  | 3        | Prop    |                 |
| BLADE         | FC7693DF*3  | PCP:BLADE UNIT, ALUM [3,1,1]  | 3        | Prop    |                 |
| SPINNER       | D-3273-2    | SPINNER ASSEMBLY              | 1        | Prop    |                 |
| SPINNER       | D-3273-2P   | SPINNER ASSEMBLY              | 1        | Prop    |                 |
| SPIN MTG KIT  | A-2476-17   | SPINNER - MTG KIT             | 1        | Prop    |                 |
| COUNTERWEIGHT | B-3202H-5   | PCP:COUNTERWEIGHT             | 1        | Blade   | Blade Component |
| MTG BOLT/STUD | A-2429-4    | STUD, MOUNTING, 1/2-20        | 6        | Prop    |                 |

**LANCAIR**

**Model:** LANCAIR IV  
**Trade Name:**  
**Aircraft T.C./STC:** Experimental  
**Propeller Model:** PHC-H3YF-4BF  
**Propeller T.C.:** P35EA  
  
**Blade Model(s):** FC7490  
**Prop Diameter:** 76"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.6 +-0.1  
**Stud Protrusion** 1.450 +-0.030

**IDS No.:** 1769 **Rev.:** - **DM Date:** 09/21/2000

**Modifier:**  
**Engine Model:** TSIO-550-B  
**Power:** 350 HP @ 2700 RPM  
**Placard/Restr:** Do not operate above 30 inches manifold pressure below 2500 RPM  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 44.0 MIN  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:** TBD

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type     | Item Number | Description              | Quantity | Qty Per | Comments        |
|---------------|-------------|--------------------------|----------|---------|-----------------|
| PROPELLER     | H3F00201    | PHC-H3YF-4BF/FC7490/SM29 | 1        | A/C     |                 |
| BLADE         | FC7490      | PCP:BLADE UNIT, ALUMINUM | 3        | Prop    |                 |
| SPIN MTG KIT  | A-2476-29   | SPINNER - MTG KIT        | 1        | Prop    |                 |
| COUNTERWEIGHT | B-3202H-5   | PCP:COUNTERWEIGHT        | 1        | Blade   | Blade Component |
| MTG BOLT/STUD | A-2429-4    | STUD, MOUNTING, 1/2-20   | 6        | Prop    |                 |



# HARTZELL

LANCAIR

**Model:** LANCAIR IV  
**Trade Name:**  
**Aircraft T.C./STC:** Experimental  
**Propeller Model:** PHC-H3YF-1RF  
**Propeller T.C.:** P35EA

**Blade Model(s):** F7490  
**Prop Diameter:** 76"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.6 +/-0.1  
**Stud Protrusion:** 1.450 +/-0.030

### Non-HPI Items:

**Non-HPI Spinner:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>       | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|--------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | H3F00005           | PHC-H3YF-1RF/F7490/SM29  | 1               | A/C            |                          |
| PROPELLER        | H3F00005KD         | PHC-H3YF-1RF/F7490/SM29  | 1               | A/C            |                          |
| BLADE            | F7490              | PCP:BLADE UNIT, ALUMINUM | 3               | Prop           |                          |
| SPIN MTG KIT     | A-2476-29          | SPINNER - MTG KIT        | 1               | Prop           |                          |
| MTG BOLT/STUD    | A-2429-4           | STUD, MOUNTING, 1/2-20   | 6               | Prop           |                          |
| OVERHAUL KIT     | PHC-H3YF-1RF-OH    | O/H KIT                  | 1               | Prop           | For aftermarket use only |

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**IDS No.:** 1158      **Rev.:** 2      **IC Date:** 11/14/2018

**Modifier:**  
**Engine Model:** TSIO-550-B  
**Power:** 350 HP @ 2700 RPM  
**Placard/Restr:** Do not operate above 30 inches manifold pressure below 2500 RPM.

### **Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 44.0 MIN  
**Cwt Angle:**

**Non-HPI Governor:**

# HARTZELL

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LANCAIR

IDS No.: 2605      Rev.: 1      D      Date: 01/07/2011

**Model:** LANCAIR IV  
**Trade Name:**  
**Aircraft T.C./STC:** Experimental  
**Propeller Model:** HC-B3TN-3ACX  
**Propeller T.C.:**  
**Blade Model(s):** T8290NKX  
                           T8290NX  
**Prop Diameter:** 82

**Modifier:**  
**Engine Model:** PT6A-34  
**Power:** 500 HP @ 2200 RPM  
**Placard/Restr:**

**Notes:** Remove TC and PC from hub and blades.  
 Remove propeller assembly S/N. De-ice system configuration for flight test only.

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** -10.0 +-0.5  
**Low Pitch Angle:** 13.0 +-0.1  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 84.0 +-0.5  
**Cwt Angle:** 1.5 +-1.5

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u>               | <u>Item Number</u> | <u>Description</u>                | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>           |
|--------------------------------|--------------------|-----------------------------------|-----------------|----------------|---------------------------|
| PROPELLER                      | B3N10063SX         | HC-B3TN-3ACX/T8290NX/3065-16P     | 1               | A/C            |                           |
| PROPELLER                      | B3N10065SX         | HC-B3TN-3ACX/T8290NKX/3065-16P    | 1               | A/C            |                           |
| BLADE                          | T8290NKX           | PCP:BLADE UNIT, ALUMINUM          | 3               | Prop           |                           |
| BLADE                          | T8290NX            | PCP:BLADE UNIT, ALUMINUM          | 3               | Prop           |                           |
| SPINNER                        | C-3065-16          | SPINNER ASSEMBLY                  | 1               | A/C            |                           |
| SPINNER                        | C-3065-16P         | SPINNER ASSEMBLY                  | 1               | A/C            |                           |
| SPIN MTG KIT                   | B-3384-4           | BOLT, 1/4-28, HEX HEAD            | 12              | Prop           |                           |
| SPIN MTG KIT                   | B-3808-4           | NUT,HEX,SELF-LOCKING              | 12              | Prop           |                           |
| SPIN MTG KIT                   | B-3851-0432        | WASHER                            | 24              | Prop           |                           |
| COUNTERWEIGHT SLUG A-3039      |                    | SLUG, COUNTERWEIGHT               | 1               | Blade          |                           |
| COUNTERWEIGHT SLUG A-890-6     |                    | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          |                           |
| COUNTERWEIGHT SLUG B-3384-21H  |                    | BOLT, 1/4-28, HEX HEAD            | 2               | Blade          |                           |
| COUNTERWEIGHT SLUG B-3851-0432 |                    | WASHER                            | 2               | Blade          |                           |
| DE-ICER                        | 4H3436-10          | DE-ICE BOOT                       | 1               | Blade          | Supersedes 7931-4E3436-10 |
| DE-ICE KIT PR                  | 7931-67-943-1      | DE-ICE KIT (ONE PROP)             | 1               | Prop           |                           |
| MTG BOLT/STUD                  | B-3339             | BOLT, MOUNTING, 9/16-18, 12 POINT | 8               | Prop           |                           |
| MISC ACCES                     | A-3044             | BLOCK, BETA FEEDBACK- ASSEMBLY    | 1               | Prop           |                           |

# HARTZELL

## APPLICATION GUIDE

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LANCAIR

**Model:** LEGACY 540  
**Trade Name:**  
**Aircraft T.C./STC:** Experimental  
**Propeller Model:** HC-F2YR-1F  
**Propeller T.C.:** P27EA

**Blade Model(s):** F7694-4T  
**Prop Diameter:** 72"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 15.0 +-0.2  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 1628      **Rev.:** 1      **IC Date:** 07/07/2015

**Modifier:**

**Engine Model:** IO-540-V4A5

**Power:** 260 HP @ 2700 RPM

**Placard/Restr:** Avoid continuous ground operation between 1750 and 2100 RPM. Do not operate above 21" MP below 2300 RPM.

**Notes:**

**Startlock Angle:** NA

**Feather/High Angle:** 40.0 +-1.0

**Cwt Angle:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>       | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|--------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | F2R00001           | HC-F2YR-1F/F7694-4T/SM8  | 1               | A/C            |                          |
| BLADE            | F7694-4T           | PCP:BLADE UNIT, ALUMINUM | 2               | Prop           |                          |
| SPINNER          | A-2295-P           | SPINNER ASSEMBLY         | 1               | Prop           |                          |
| SPIN MTG KIT     | A-2476-8           | SPINNER - MTG KIT        | 1               | Prop           |                          |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20   | 6               | Prop           |                          |
| OVERHAUL KIT     | HC-F2YR-1F-OH      | O/H KIT                  | 1               | Prop           | For aftermarket use only |

LANCAIR

**Model:** LEGACY  
**Trade Name:**  
**Aircraft T.C./STC:** Experimental  
**Propeller Model:** HC-F3YR-1ARF  
**Propeller T.C.:** P31EA  
**Blade Model(s):** F8468D-14  
**Prop Diameter:** 72

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** 14.1 +-0.1  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 2469      **Rev.:** 1      **IC Date:** 07/16/2015

**Modifier:**

**Engine Model:** IO-540-K1A5

**Power:** 300 HP @ 2700 RPM

**Placard/Restr:** Maximum manifold pressure 29.5"

**Notes:**

**Startlock Angle:**

**Feather/High Angle:** 40.0 +-1.0

**Cwt Angle:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>           | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|------------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | F3R00040           | HC-F3YR-1ARF/F8468D-14/SM9   | 1               | A/C            |                          |
| BLADE            | F8468D-14          | PCP:BLADE UNIT, ALUM [1,1,1] | 3               | Prop           |                          |
| SPINNER          | A-2295-1P          | SPINNER ASSEMBLY             | 1               | A/C            |                          |
| SPIN MTG KIT     | A-2476-9           | SPINNER - MTG KIT            | 1               | Prop           |                          |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20       | 6               | Prop           |                          |
| OVERHAUL KIT     | HC-F3YR-1ARF-OH    | O/H KIT                      | 1               | Prop           | For aftermarket use only |

# HARTZELL

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LANCAIR

**Model:** LEGACY 2000  
**Trade Name:**  
**Aircraft T.C./STC:** Experimental  
**Propeller Model:** BHC-J2YF-1BF  
**Propeller T.C.:** P37EA

**Blade Model(s):** F7694-4T  
**Prop Diameter:** 72"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 16.5 +-0.2  
**Stud Protrusion** 1.450 +-0.030

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 1722      **Rev.:** -      **DM Date:** 07/10/2001

**Modifier:**

**Engine Model:** IO-550-N

**Power:** 310 HP @ 2700 RPM

**Placard/Restr:** Avoid continuous ground operation between 1850 and 2100 RPM

**Notes:**

**Startlock Angle:**

**Feather/High Angle:** 40.0 +-1.0

**Cwt Angle:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>        | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|---------------------------|-----------------|----------------|-----------------|
| PROPELLER        | J2F00015           | BHC-J2YF-1BF/F7694-4T/SM8 | 1               | A/C            |                 |
| BLADE            | F7694-4T           | PCP:BLADE UNIT, ALUMINUM  | 2               | Prop           |                 |
| SPINNER          | A-2295-P           | SPINNER ASSEMBLY          | 1               | Prop           |                 |
| SPIN MTG KIT     | A-2476-8           | SPINNER - MTG KIT         | 1               | Prop           |                 |
| MTG BOLT/STUD    | A-2429-4           | STUD, MOUNTING, 1/2-20    | 6               | Prop           |                 |

LANCAIR

**Model:** LEGACY 2000  
**Trade Name:**  
**Aircraft T.C./STC:** Experimental  
**Propeller Model:** HC-J3YF-1RF  
**Propeller T.C.:** P36EA  
**Blade Model(s):** F7391D-3  
F7391D-3\*1

**Prop Diameter:** 72"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.5 +-0.2  
**Stud Protrusion** 1.450 +-0.030

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 1898      **Rev.:** 2      **IC Date:** 07/05/2019

**Modifier:**

**Engine Model:** IO-550-N

**Power:** 310 HP @ 2700 RPM

**Placard/Restr:**

**Notes:**

**Startlock Angle:**

**Feather/High Angle:** 40.0 +-1.0

**Cwt Angle:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>           | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|------------------------------|-----------------|----------------|-----------------|
| PROPELLER        | J3F00400           | HC-J3YF-1RF/F7391D-3/SM7     | 1               | A/C            |                 |
| PROPELLER        | J3F00402           | HC-J3YF-1RF/F7391D-3[*1]/SM7 | 1               | A/C            |                 |
| BLADE            | F7391D-3           | PCP:BLADE UNIT, ALUMINUM     | 3               | Prop           |                 |
| BLADE            | F7391D-3*1         | PCP:BLADE UNIT, ALUM [3,1,1] | 3               | Prop           |                 |
| SPINNER          | A-2295-1P          | SPINNER ASSEMBLY             | 1               | Prop           |                 |
| GOVERNOR         | S-1-86             | GOVERNOR ASSEMBLY, S-1-86    | 1               | A/C            |                 |
| SPIN MTG KIT     | A-2476-7           | SPINNER - MTG KIT            | 1               | Prop           |                 |
| MTG BOLT/STUD    | A-2429-4           | STUD, MOUNTING, 1/2-20       | 6               | Prop           |                 |

# HARTZELL

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LANCAIR

**Model:** TURBO LEGACY  
**Trade Name:**  
**Aircraft T.C./STC:** Experimental  
**Propeller Model:** HC-H3YF-2UFX  
**Propeller T.C.:**  
**Blade Model(s):** FC7391D-3X  
**Prop Diameter:** 72"

**IDS No.:** 2501      **Rev.:** -      **DM Date:** 12/20/2004

**Modifier:**  
**Engine Model:** TSIO-550-X  
**Power:** 350 HP @ 2700 RPM  
**Placard/Restr:**

**Notes:** Remove TC and PC marks from hub and blades. Remove production assembly S/N from hub.

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 15.2 +-0.2  
**Stud Protrusion** 1.450 +-0.030

**Startlock Angle:** 21.5 +-1.5

**Feather/High Angle:** 82.0 +-1.0

**Cwt Angle:**

### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>          | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>        |
|------------------|--------------------|-----------------------------|-----------------|----------------|------------------------|
| PROPELLER        | H3F00015X          | HC-H3YF-2UFX/FC7391D-3X/SM9 | 1               | A/C            |                        |
| BLADE            | FC7391D-3X         | PCP:BLADE UNIT, ALUMINUM    | 3               | Prop           |                        |
| SPINNER          | C-4558-3P          | SPINNER ASSEMBLY            | 1               | A/C            | For stock engine cowl  |
| SPINNER          | D-4578-P           | SPINNER ASSEMBLY            | 1               | A/C            | For "BEHEL" style cowl |
| SPIN MTG KIT     | A-2476-9           | SPINNER - MTG KIT           | 1               | Prop           |                        |
| COUNTERWEIGHT    | B-3202H-1          | PCP:COUNTERWEIGHT           | 1               | Blade          |                        |
| MTG BOLT/STUD    | A-2429-4           | STUD, MOUNTING, 1/2-20      | 6               | Prop           |                        |

LANCAIR

**Model:** LEGACY FG  
**Trade Name:**  
**Aircraft T.C./STC:** Experimental  
**Propeller Model:** HC-F2YR-1FP  
**Propeller T.C.:** P27EA  
**Blade Model(s):** F7497  
F7499  
**Prop Diameter:** 74

**IDS No.:** 2621      **Rev.:** 1      **IC Date:** 07/07/2015

**Modifier:**  
**Engine Model:** IO-390-X  
**Power:** 210 HP @ 2700 RPM  
**Placard/Restr:**

**Notes:**

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** 14.0 +-0.2  
**Stud Protrusion**

**Startlock Angle:**

**Feather/High Angle:** 38.0 +-1.0

**Cwt Angle:**

### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>            | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|-------------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | F2R10700           | HC-F2YR-1FP/F7497/SM8         | 1               | A/C            |                          |
| BLADE            | F7497              | PCP:BLADE UNIT, ALUM [6,1,11] | 2               | Prop           |                          |
| BLADE            | F7499              | PCP:BLADE UNIT, ALUM [6,1,11] | 2               | Prop           |                          |
| SPINNER          | A-2295             | SPINNER ASSEMBLY              | 1               | A/C            |                          |
| SPINNER          | A-2295-P           | SPINNER ASSEMBLY              | 1               | A/C            |                          |
| SPIN MTG KIT     | A-2476-8           | SPINNER - MTG KIT             | 1               | Prop           |                          |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20        | 6               | Prop           |                          |
| OVERHAUL KIT     | HC-F2YR-1F-OH      | O/H KIT                       | 1               | Prop           | For aftermarket use only |

# HARTZELL

## APPLICATION GUIDE

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LANCAIR

**Model:** LEGACY 2000  
**Trade Name:**  
**Aircraft T.C./STC:** EXPERIMENTAL  
**Propeller Model:** PHC-J3YF-2UF  
**Propeller T.C.:** P36EA  
**Blade Model(s):** FC7391D-3  
**Prop Diameter:** 72 (NO REDUCTION ALLOWED)

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** 13.5 +-0.2  
**Stud Protrusion** 1.450 +-0.030

**IDS No.:** 2655      **Rev.:** 1      **IC**      **Date:** 07/15/2015

**Modifier:**  
**Engine Model:** IO-550-N  
**Power:** 310 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** 20.0 +-1.5  
**Feather/High Angle:** 80.0 +-1.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type     | Item Number     | Description                  | Quantity | Qty Per | Comments                 |
|---------------|-----------------|------------------------------|----------|---------|--------------------------|
| PROPELLER     | J3F00139        | PHC-J3YF-2UF/FC7391D-3/SM9   | 1        | A/C     |                          |
| BLADE         | FC7391D-3       | PCP:BLADE UNIT, ALUM (6,1,5) | 3        | Prop    |                          |
| SPINNER       | C-4558-3        | SPINNER ASSEMBLY             | 1        | Prop    |                          |
| SPINNER       | C-4558-3P       | SPINNER ASSEMBLY             | 1        | Prop    |                          |
| SPIN MTG KIT  | A-2476-9        | SPINNER - MTG KIT            | 1        | Prop    |                          |
| COUNTERWEIGHT | B-3202H-1       | PCP:COUNTERWEIGHT            | 1        | Blade   |                          |
| MTG BOLT/STUD | A-2429-4        | STUD, MOUNTING, 1/2-20       | 6        | Prop    |                          |
| OVERHAUL KIT  | PHC-J3YF-2UF-OH | O/H KIT                      | 1        | Prop    | For aftermarket use only |

LANCAIR

**Model:** 320  
**Trade Name:** LANCAIR  
**Aircraft T.C./STC:** Experimental  
**Propeller Model:** HC-F2YL-1F  
**Propeller T.C.:** P27EA  
**Blade Model(s):** F8468D-14  
**Prop Diameter:** 70.0"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.0 +-0.2  
**Stud Protrusion**

**IDS No.:** 618      **Rev.:** 1      **IC**      **Date:** 07/07/2015

**Modifier:**  
**Engine Model:** IO-320-B1A  
**Power:** 160 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 40.0 +-1.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type     | Item Number   | Description                      | Quantity | Qty Per | Comments                 |
|---------------|---------------|----------------------------------|----------|---------|--------------------------|
| PROPELLER     | F2L00070      | HC-F2YL-1F/F8468D-14/SM31        | 1        | A/C     |                          |
| BLADE         | F8468D-14     | PCP:BLADE UNIT, ALUM [1,1,1]     | 2        | Prop    |                          |
| SPIN MTG KIT  | A-2476-31     | SPINNER - MTG KIT                | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2247-1      | STUD, MOUNTING, 7/16-20, DRILLED | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-F2YL-1F-OH | O/H KIT                          | 1        | Prop    | For aftermarket use only |

# HARTZELL

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LANCAIR

**Model:** 360  
**Trade Name:** LANCAIR  
**Aircraft T.C./STC:** Experimental  
**Propeller Model:** HC-F2YR-1F  
**Propeller T.C.:** P27EA

**Blade Model(s):** F7666A-4  
**Prop Diameter:** 74.0" TO 72.0"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 14.0 +-0.1  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>       | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|--------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | F2R00038           | HC-F2YR-1F/F7666A-4/SM31 | 1               | A/C            |                          |
| BLADE            | F7666A-4           | PCP:BLADE UNIT, ALUMINUM | 2               | Prop           |                          |
| SPIN MTG KIT     | A-2476-31          | SPINNER - MTG KIT        | 1               | Prop           |                          |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20   | 6               | Prop           |                          |
| OVERHAUL KIT     | HC-F2YR-1F-OH      | O/H KIT                  | 1               | Prop           | For aftermarket use only |

**IDS No.:** 619      **Rev.:** 1      **IC Date:** 07/07/2015

**Modifier:**  
**Engine Model:** IO-360  
**Power:** 200 HP @ 2700 RPM  
**Placard/Restr:** Avoid continuous operation between 2000 and 2350 RPM

### **Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 37.7 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

LANCAIR

**Model:** 360  
**Trade Name:**  
**Aircraft T.C./STC:** Experimental  
**Propeller Model:** HC-F2YR-1F  
**Propeller T.C.:** P27EA

**Blade Model(s):** F7068-2  
**Prop Diameter:** 68.0" TO 67.0"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.0 +-0.1  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:** LANCAIR SPINNER

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>       | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|--------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | F2R00070           | HC-F2YR-1F/F7068-2/SM31  | 1               | A/C            |                          |
| BLADE            | F7068-2            | PCP:BLADE UNIT, ALUMINUM | 2               | Prop           |                          |
| SPIN MTG KIT     | A-2476-31          | SPINNER - MTG KIT        | 1               | Prop           |                          |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20   | 6               | Prop           |                          |
| OVERHAUL KIT     | HC-F2YR-1F-OH      | O/H KIT                  | 1               | Prop           | For aftermarket use only |

**IDS No.:** 1193      **Rev.:** 1      **IC Date:** 07/07/2015

**Modifier:**  
**Engine Model:** IO-360-B1B  
**Power:** 180 HP @ 2700 RPM  
**Placard/Restr:** Stabilized operation is prohibited above 25" manifold pressure between 2300 and 2500 RPM and below 15" manifold pressure above 2600 RPM.

### **Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 32.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

# HARTZELL

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LANCAIR

**Model:** LANCAIR ES  
**Trade Name:**  
**Aircraft T.C./STC:** Experimental  
**Propeller Model:** PHC-J3YF-1RF  
**Propeller T.C.:** P36EA  
**Blade Model(s):** F7691D  
**Prop Diameter:** 78.0" TO 77.0"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.1 +-0.1  
**Stud Protrusion:** 1.450 +-0.030

### Non-HPI Items:

**Non-HPI Spinner:** LANCAIR

**IDS No.:** 1159      **Rev.:** 1      **IC Date:** 07/16/2015

### **Modifier:**

**Engine Model:** IO-550-G, -G2B  
**Power:** 300 HP @ 2700 RPM  
**Placard/Restr:** Do not exceed 20 in. MP below 2200 RPM.  
**Notes:** Lancair spinner requires A-2476-29 spinner mounting kit.

**Startlock Angle:** NA  
**Feather/High Angle:** 35.0 +-0.5  
**Cwt Angle:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>           | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|------------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | J3F00024           | PHC-J3YF-1RF/F7691D/SM29     | 1               | A/C            |                          |
| BLADE            | F7691D             | PCP:BLADE UNIT, ALUM [1,1,5] | 3               | Prop           |                          |
| SPIN MTG KIT     | A-2476-29          | SPINNER - MTG KIT            | 1               | Prop           |                          |
| MTG BOLT/STUD    | A-2429-4           | STUD, MOUNTING, 1/2-20       | 6               | Prop           |                          |
| OVERHAUL KIT     | PHC-J3YF-1RF-OH    | O/H KIT                      | 1               | Prop           | For aftermarket use only |

### **Non-HPI Governor:**

LANCAIR

**Model:** LANCAIR ES  
**Trade Name:**  
**Aircraft T.C./STC:** Experimental  
**Propeller Model:** PHC-J3YF-1RF  
**Propeller T.C.:** P36EA  
**Blade Model(s):** F7693DF  
**Prop Diameter:** 78.0" TO 77.0"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.5 +-0.2  
**Stud Protrusion:** 1.450 +-0.030

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 1958      **Rev.:** 1      **IC Date:** 07/16/2015

### **Modifier:**

**Engine Model:** IO-550-G, -G2B  
**Power:** 300 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 40.0 +-1.0  
**Cwt Angle:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>       | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|--------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | J3F00055           | PHC-J3YF-1RF/F7693DF/SM7 | 1               | A/C            |                          |
| BLADE            | F7693DF            | PCP:BLADE UNIT, ALUMINUM | 3               | Prop           |                          |
| SPINNER          | C-6446-1P          | SPINNER ASSEMBLY         | 1               | Prop           |                          |
| SPIN MTG KIT     | A-2476-7           | SPINNER - MTG KIT        | 1               | Prop           |                          |
| MTG BOLT/STUD    | A-2429-4           | STUD, MOUNTING, 1/2-20   | 6               | Prop           |                          |
| OVERHAUL KIT     | PHC-J3YF-1RF-OH    | O/H KIT                  | 1               | Prop           | For aftermarket use only |

### **Non-HPI Governor:**



# HARTZELL

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**LANCAIR**

**Model:** LANCAIR ES  
**Trade Name:**  
**Aircraft T.C./STC:** Experimental  
**Propeller Model:** PHC-G3YF-1RF  
**Propeller T.C.:** P55GL  
**Blade Model(s):** F7691  
**Prop Diameter:** 78.0" TO 77.0"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.1 +-0.1  
**Stud Protrusion:** 1.450 +-0.030

**Non-HPI Items:**

**Non-HPI Spinner:** LANCAIR

**Hartzell Approved Items:**

| Item Type     | Item Number     | Description                  | Quantity | Qty Per | Comments |
|---------------|-----------------|------------------------------|----------|---------|----------|
| PROPELLER     | G3F00002        | PHC-G3YF-1RF/F7691           | 1        | A/C     |          |
| BLADE         | F7691           | PCP:BLADE UNIT, ALUM [1,1,5] | 3        | Prop    |          |
| MTG BOLT/STUD | A-2429-4        | STUD, MOUNTING, 1/2-20       | 6        | Prop    |          |
| OVERHAUL KIT  | PHC-G3YF-1RF-OH | O/H KIT                      | 1        | Prop    |          |

**IDS No.:** 3456      **Rev.:** 1      **IC Date:** 06/09/2016

**Modifier:**  
**Engine Model:** IO-550-G, -G2B  
**Power:** 280 HP @ 2500 RPM  
**Placard/Restr:** Do not exceed 20 in. MP below 2200 RPM.  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 35.0 +-0.5  
**Cwt Angle:**

**Non-HPI Governor:**

**LANCAIR**

**Model:** LANCAIR ES  
**Trade Name:**  
**Aircraft T.C./STC:** Experimental  
**Propeller Model:** PHC-J3YF-1RF  
**Propeller T.C.:** P36EA  
**Blade Model(s):** F7691  
**Prop Diameter:** 78.0" TO 77.0"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.1 +-0.1  
**Stud Protrusion:** 1.450 +-0.030

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number     | Description                  | Quantity | Qty Per | Comments                 |
|---------------|-----------------|------------------------------|----------|---------|--------------------------|
| PROPELLER     | J3F00025        | PHC-J3YF-1RF/F7691/SM7       | 1        | A/C     |                          |
| BLADE         | F7691           | PCP:BLADE UNIT, ALUM [1,1,5] | 3        | Prop    |                          |
| SPINNER       | C-6446          | SPINNER ASSEMBLY             | 1        | Prop    |                          |
| SPINNER       | C-6446-P        | SPINNER ASSEMBLY             | 1        | Prop    |                          |
| SPIN MTG KIT  | A-2476-7        | SPINNER - MTG KIT            | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2429-4        | STUD, MOUNTING, 1/2-20       | 6        | Prop    |                          |
| OVERHAUL KIT  | PHC-J3YF-1RF-OH | O/H KIT                      | 1        | Prop    | For aftermarket use only |

**IDS No.:** 1681      **Rev.:** 1      **IC Date:** 07/16/2015

**Modifier:**  
**Engine Model:** IO-550-G, -G2B  
**Power:** 300 HP @ 2700 RPM  
**Placard/Restr:** Do not exceed 20 in. MP below 2200 RPM.  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 35.0 +-0.5  
**Cwt Angle:**

**Non-HPI Governor:**

# HARTZELL

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LANCAIR

IDS No.: 2686 Rev.: 2 IC Date: 11/08/2018

**Model:** EVOLUTION  
**Trade Name:** EVOLUTION  
**Aircraft T.C./STC:** EXPERIMENTAL  
**Propeller Model:** HC-E4N-3NX  
**Propeller T.C.:**

**Modifier:**  
**Engine Model:** PT6A-34  
**Power:** 560 HP @ 2200 RPM  
**Placard/Restr:** Stabilized ground operation between 400 and 1200 RPM is prohibited. The propeller may be operated at or below 400 RPM when feathered.

**Blade Model(s):** D8292BX\*2  
 D8292BX\*3  
 D8292X  
 D8292X\*3

**Notes:** Remove TC and PC numbers from hub and blades. Remove propeller assembly S/N.

**Prop Diameter:** 82.5" TO 81.5"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** -10.0+-0.5  
**Low Pitch Angle:** 19.7+-0.1  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 83.2+-0.5  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>             | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|--------------------------------|-----------------|----------------|-----------------|
| PROPELLER        | E4N00503SX         | HC-E4N-3NX/D8292X/D-630-1P     | 1               | A/C            |                 |
| PROPELLER        | E4N00504SX         | HC-E4N-3NX/D8292X[*3]/D-630-1  | 1               | A/C            |                 |
| PROPELLER        | E4N00521SX         | HC-E4N-3NX/D8292BX*2/D-630-1P  | 1               | A/C            |                 |
| PROPELLER        | E4N00522SX         | HC-E4N-3NX/D8292BX[*3]/D-630-1 | 1               | A/C            |                 |
| BLADE            | D8292BX*2          | PCP:BLADE UNIT, ALUM, 102878   | 4               | Prop           |                 |
| BLADE            | D8292BX*3          | PCP:BLADE UNIT, ALUM [3,1,1]   | 4               | Prop           |                 |
| BLADE            | D8292X             | PCP:BLADE UNIT, ALUMINUM       | 4               | Prop           |                 |
| BLADE            | D8292X*3           | PCP:BLADE UNIT, ALUM [3,1,1]   | 4               | Prop           |                 |
| SPINNER          | D-630-1            | SPINNER ASSEMBLY               | 1               | A/C            |                 |
| SPINNER          | D-630-1P           | SPINNER ASSEMBLY               | 1               | A/C            |                 |
| COUNTERWEIGHT    | C-472-3            | PCP:COUNTERWEIGHT              | 1               | Blade          |                 |
| DE-ICER          | 102878             | DE-ICE BOOT                    | 1               | Blade          |                 |
| DE-ICE KIT PR    | 102759-1           | DE-ICE KIT (ONE PROP)          | 1               | Prop           |                 |
| MTG BOLT/STUD    | B-3339-1           | BOLT,MOUNTING,9/16-18,12 POINT | 8               | Prop           |                 |
| MISC ACCES       | A-3044             | BLOCK, BETA FEEDBACK- ASSEMBLY | 1               | Prop           |                 |

# HARTZELL

## APPLICATION GUIDE

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**Lavia Argentina S.A.**

IDS No.: 2835 Rev.: 1 IC Date: 07/16/2015

**Model:** PA-25-235  
**Trade Name:** Puelche  
**Aircraft T.C./STC:** Unknown  
**Propeller Model:** HC-C3YR-1RF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** F7693F  
**Prop Diameter:** 78" TO 76"

**Modifier:**  
**Engine Model:** O-540-B4B5  
**Power:** 235 HP @ 2575 RPM  
**Placard/Restr:**  
**Notes:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.0 +-0.2  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 31.0 +-1.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type     | Item Number    | Description                  | Quantity | Qty Per | Comments                 |
|---------------|----------------|------------------------------|----------|---------|--------------------------|
| PROPELLER     | C3R01304       | HC-C3YR-1RF/F7693F           | 1        | A/C     |                          |
| BLADE         | F7693F         | PCP:BLADE UNIT, ALUM [1,1,1] | 3        | Prop    |                          |
| SPINNER       | 835-36         | SPINNER ASSEMBLY             | 1        | Prop    |                          |
| SPINNER       | 835-36P        | SPINNER ASSEMBLY             | 1        | Prop    |                          |
| GOVERNOR      | S-1-33         | GOVERNOR ASSEMBLY, S-1-33    | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2067         | STUD, MOUNTING, 1/2-20       | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-C3YR-1RF-OH | O/H KIT                      | 1        | Prop    | For aftermarket use only |

**LAVIASA**

IDS No.: 1553 Rev.: 1 IC Date: 07/07/2015

**Model:** PA-25-260  
**Trade Name:** PAWNEE  
**Aircraft T.C./STC:** 2A8, 2A10  
**Propeller Model:** HC-C2YK-1BF  
**Propeller T.C.:** P-920  
**Blade Model(s):** F8477  
 F8477-1  
**Prop Diameter:** 84" TO 83"

**Modifier:**  
**Engine Model:** O-540-G1A5  
**Power:** 260 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:** Aircraft TC states "Spinner - None Approved"; Governor model F-4-4A is compatible with narrow deck version (.895 to 1 drive ratio) of O-540-G1A5 engine as currently listed.

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 11.8 +-0.1  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 32.0 +-1.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:** NONE

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type     | Item Number    | Description                  | Quantity | Qty Per | Comments                 |
|---------------|----------------|------------------------------|----------|---------|--------------------------|
| PROPELLER     | C2K00151       | HC-C2YK-1BF/F8477            | 1        | A/C     |                          |
| BLADE         | F8477          | PCP:BLADE UNIT, ALUM [1,1,1] | 2        | Prop    |                          |
| BLADE         | F8477-1        | IDS Item                     | 2        | Prop    |                          |
| GOVERNOR      | F4-4A          | GOVERNOR ASSEMBLY, F-4-( )   | 1        | A/C     |                          |
| MTG BOLT/STUD | A-2067         | STUD, MOUNTING, 1/2-20       | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-C2YK-1BF-OH | O/H KIT                      | 1        | Prop    | For aftermarket use only |

# HARTZELL

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**LOCKHEED**

**Model:** 12A  
**Trade Name:**  
**Aircraft T.C./STC:** STC-SA4-33  
**Propeller Model:** HC-(9,B)3(Z,W,P,R)30-2E  
**Propeller T.C.:**  
**Blade Model(s):** 10152-5.5  
 10152N-5.5  
**Prop Diameter:** 95.5"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 17.0 +-0.2  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type | Item Number | Description                | Quantity | Qty Per | Comments |
|-----------|-------------|----------------------------|----------|---------|----------|
| BLADE     | 10152-5.5   | BLADE                      | 3        | Prop    |          |
| BLADE     | 10152N-5.5  | BLADE                      | 3        | Prop    |          |
| SPINNER   | 836-16SPR   | IDS Item                   | 1        | Prop    |          |
| SPINNER   | 836-17SPR   | SPINNER ASSEMBLY           | 1        | Prop    | Alcohol  |
| SPINNER   | 836-32SPR   | SPINNER ASSEMBLY           | 1        | Prop    |          |
| GOVERNOR  | C1          | IDS Item                   | 2        | A/C     | See STC  |
| GOVERNOR  | C2          | IDS Item                   | 2        | A/C     | See STC  |
| GOVERNOR  | C3          | GOVERNOR ASSEMBLY, C-3-( ) | 2        | A/C     |          |

**IDS No.:** 622      **Rev.:** -      **DM Date:** 10/01/1992

**Modifier:** HARTZELL PROPELLER  
**Engine Model:** R985 (with 4.5 & 9 dampers)  
**Power:** 450 HP @ 2300 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 88.0 +-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:**

**LOCKHEED**

**Model:** 12A  
**Trade Name:**  
**Aircraft T.C./STC:** STC-SA4-33  
**Propeller Model:** HC-B3(Z,W)30-2D, -2E  
**Propeller T.C.:**  
**Blade Model(s):** 10160-6  
 10160N-6  
**Prop Diameter:** 95"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 17.0 +-0.2  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type | Item Number | Description      | Quantity | Qty Per | Comments |
|-----------|-------------|------------------|----------|---------|----------|
| BLADE     | 10160-6     | IDS Item         | 3        | Prop    |          |
| BLADE     | 10160N-6    | IDS Item         | 3        | Prop    |          |
| SPINNER   | 836-32SPR   | SPINNER ASSEMBLY | 1        | Prop    |          |

**IDS No.:** 623      **Rev.:** -      **DM Date:** 10/01/1992

**Modifier:** HARTZELL PROPELLER  
**Engine Model:** R985 (with 4.5 & 9 dampers)  
**Power:** 450 HP @ 2300 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 88.0 +-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:**

# HARTZELL

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LUSCOMBE

IDS No.: 624      Rev.: -      DM Date: 10/01/1992

**Model:** 8B,8C,8D,8E  
**Trade Name:**  
**Aircraft T.C./STC:** A-694  
**Propeller Model:** HA-12UO, HA-12UF  
**Propeller T.C.:**

**Modifier:**  
**Engine Model:** A-75-8J, C-85-12; LYCO O-145-B1  
**Power:** 85 HP @ 2575 RPM  
**Placard/Restr:**

**Blade Model(s):** 7214  
7214-2  
7214-2M  
7214-4  
7214-4M  
7214M  
7414  
7414M

**Notes:**

**Prop Diameter:** 74" TO 68"

### Prop Setup:

**Ref. Radius:** 0  
**Reverse Angle:** NA  
**Low Pitch Angle:**  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** NA  
**Cwt Angle:**

### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u> | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|--------------------|-----------------|----------------|-----------------|
| BLADE            | 7214               | IDS Item           | 2               | Prop           |                 |
| BLADE            | 7214-2             | IDS Item           | 2               | Prop           |                 |
| BLADE            | 7214-2M            | IDS Item           | 2               | Prop           |                 |
| BLADE            | 7214-4             | IDS Item           | 2               | Prop           |                 |
| BLADE            | 7214-4M            | IDS Item           | 2               | Prop           |                 |
| BLADE            | 7214M              | IDS Item           | 2               | Prop           |                 |
| BLADE            | 7414               | IDS Item           | 2               | Prop           |                 |
| BLADE            | 7414M              | IDS Item           | 2               | Prop           |                 |

# HARTZELL

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LUSCOMBE

Model: 11  
Trade Name:  
Aircraft T.C./STC: STC-SA3-71  
Propeller Model: HC-82XF-2, HC-A2XF-2  
Propeller T.C.: P24EA  
Blade Model(s): 8433-1  
Prop Diameter: 83" TO 81.5"

### Prop Setup:

Ref. Radius: 30  
Reverse Angle: NA  
Low Pitch Angle: 17.0 +-0.1  
Stud Protrusion

### Non-HPI Items:

Non-HPI Spinner:

### Hartzell Approved Items:

| Item Type     | Item Number | Description | Quantity | Qty Per | Comments |
|---------------|-------------|-------------|----------|---------|----------|
| BLADE         | 8433-1      | BLADE       | 2        | Prop    |          |
| COUNTERWEIGHT | B-618       | IDS Item    | 1        | Blade   |          |

IDS No.: 2202 Rev.: - BC Date: 04/10/2014

Modifier: GRAHAM FLYING  
Engine Model: E-185-2  
Power: 185 HP @ 2300 RPM  
Placard/Restr:  
Notes:

Startlock Angle:  
Feather/High Angle: 24.0 +- 0.1  
Cwt Angle: Positive

Non-HPI Governor:

LUSCOMBE

Model: 11  
Trade Name:  
Aircraft T.C./STC: STC-SA3-71  
Propeller Model: HC-A2MVF-2  
Propeller T.C.: P24EA  
Blade Model(s): MV8433N-1  
Prop Diameter: 83" TO 81.5"

### Prop Setup:

Ref. Radius: 30  
Reverse Angle: NA  
Low Pitch Angle: 17.0 +-0.1  
Stud Protrusion

### Non-HPI Items:

Non-HPI Spinner:

### Hartzell Approved Items:

| Item Type     | Item Number | Description              | Quantity | Qty Per | Comments |
|---------------|-------------|--------------------------|----------|---------|----------|
| BLADE         | MV8433N-1   | PCP:BLADE UNIT, ALUMINUM | 2        | Prop    |          |
| COUNTERWEIGHT | B-618       | IDS Item                 | 1        | Blade   |          |

IDS No.: 625 Rev.: - DM Date: 05/16/1998

Modifier: GRAHAM FLYING  
Engine Model: E-185-2  
Power: 185 HP @ 2300 RPM  
Placard/Restr:  
Notes:

Startlock Angle:  
Feather/High Angle: 24.0 +- 0.1  
Cwt Angle: Positive

Non-HPI Governor:

# HARTZELL

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LUSCOMBE

Model: 11A  
Trade Name:  
Aircraft T.C./STC: A-804  
Propeller Model: not procurable  
Propeller T.C.:  
Blade Model(s):  
Prop Diameter: 83.0" TO 81.5"

### Prop Setup:

Ref. Radius: 30  
Reverse Angle: NA  
Low Pitch Angle: 17.0 +/-0.2  
Stud Protrusion

### Non-HPI Items:

Non-HPI Spinner: LUSCOMBE

### Hartzell Approved Items:

IDS No.: 627      Rev.: -      DM Date: 05/16/1998

Modifier:  
Engine Model: E-185-2  
Power: 185 HP @ 2300 RPM  
Placard/Restr:  
Notes:

Startlock Angle: NA  
Feather/High Angle: 24.0  
Cwt Angle:

Non-HPI Governor:

LUSCOMBE

Model: 11A  
Trade Name:  
Aircraft T.C./STC: A-804  
Propeller Model: HC-42XF-2  
Propeller T.C.:  
Blade Model(s): 8428-1  
Prop Diameter: 83.0" TO 81.5"

### Prop Setup:

Ref. Radius: 30  
Reverse Angle: NA  
Low Pitch Angle: 15.0 +/-0.2  
Stud Protrusion

### Non-HPI Items:

Non-HPI Spinner: LUSCOMBE

### Hartzell Approved Items:

IDS No.: 628      Rev.: -      DM Date: 10/01/1992

Modifier:  
Engine Model: E-165-2, E-185-2  
Power: 165 HP @ 2050 RPM  
Placard/Restr:  
Notes:

Startlock Angle: NA  
Feather/High Angle: 22.2 +/-0.5  
Cwt Angle:

Non-HPI Governor:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u> | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|--------------------|-----------------|----------------|-----------------|
| BLADE            | 8428-1             | IDS Item           | 2               | Prop           |                 |

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LUSCOMBE

**Model:** 11A  
**Trade Name:**  
**Aircraft T.C./STC:** STC-SA3-71  
**Propeller Model:** HC-12X20-7, HC-D2X20-7, HC-12X20-7D  
**Propeller T.C.:** P48GL  
**Blade Model(s):** 8433-1  
**Prop Diameter:** 83"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 17.0 +/-0.1  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number | Description                | Quantity | Qty Per | Comments |
|---------------|-------------|----------------------------|----------|---------|----------|
| BLADE         | 8433-1      | BLADE                      | 2        | Prop    |          |
| MTG BOLT/STUD | A-63B       | PCP: NUT, SHAFT, 20 SPLINE | 1        | Prop    |          |
| MTG BOLT/STUD | A-63-B      | NUT,SHAFT,20 SPLINE        | 1        | Prop    |          |

**IDS No.:** 2203      **Rev.:** -      **BC Date:** 04/10/2014

**Modifier:** GRAHAM FLYING  
**Engine Model:** E-185-2  
**Power:** 185 HP @ 2300 RPM  
**Placard/Restr:**

**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 23.5 MIN  
**Cwt Angle:** Positive

**Non-HPI Governor:**

LUSCOMBE

**Model:** 11A  
**Trade Name:**  
**Aircraft T.C./STC:** STC-SA3-71  
**Propeller Model:** HC-D2MV20-7  
**Propeller T.C.:** P48GL  
**Blade Model(s):** MV8433N-1  
**Prop Diameter:** 83"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 17.0 +/-0.1  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number    | Description                    | Quantity | Qty Per | Comments                 |
|---------------|----------------|--------------------------------|----------|---------|--------------------------|
| PROPELLER     | D2210017       | HC-D2MV20-7/MV8433N-1/LESS HYD | 1        | A/C     |                          |
| PROPELLER     | D2210018       | HC-D2MV20-7/MV8433N-1 VLV.&HYD | 1        | A/C     |                          |
| BLADE         | MV8433N-1      | PCP:BLADE UNIT, ALUMINUM       | 2        | Prop    |                          |
| MTG BOLT/STUD | A-63B          | PCP: NUT, SHAFT, 20 SPLINE     | 1        | Prop    |                          |
| MTG BOLT/STUD | A-63-B         | NUT,SHAFT,20 SPLINE            | 1        | Prop    |                          |
| OVERHAUL KIT  | HC-D2MV20-7-OH | O/H KIT                        | 1        | Prop    | For aftermarket use only |

**IDS No.:** 626      **Rev.:** 2      **IC Date:** 07/06/2015

**Modifier:** GRAHAM FLYING  
**Engine Model:** E-185-2  
**Power:** 185 HP @ 2300 RPM  
**Placard/Restr:**

**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 23.5 MIN  
**Cwt Angle:** Positive

**Non-HPI Governor:**



# HARTZELL

## APPLICATION GUIDE 159

MAULE

**Model:** M-5-235C; M-6-235; M-7-235( , A, B, C); MX-7-235; MT-7-235; M-8-235

**Trade Name:**

**Aircraft T.C./STC:** SA04320CH

**Propeller Model:** HC-C2YR-1N

**Propeller T.C.:** P-920

**Blade Model(s):** NG8301-3

**Prop Diameter:** 80"

### Prop Setup:

**Ref. Radius:** 30

**Reverse Angle:**

**Low Pitch Angle:** 15.1 +/- 0.2

**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 3626

**Rev.:** 1

**IC Date:** 08/03/2018

**Modifier:** Hartzell Propeller Inc

**Engine Model:** O-540-J1A5D, -J3A5; IO-540-W1A5(D)

**Power:** 235 HP @ 2400 RPM

**Placard/Restr:** None.

**Notes:** None.

**Startlock Angle:**

**Feather/High Angle:** 31.0 +/- 1.0

**Cwt Angle:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>        | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|---------------------------|-----------------|----------------|-----------------|
| PROPELLER        | C2R40508           | HC-C2YR-1N/NG8301-3/SM19  | 1               | A/C            |                 |
| BLADE            | NG8301-3           | PCP:BLADE ASSY, COMPOSITE | 2               | Prop           |                 |
| SPINNER          | A-2298-2           | SPINNER ASSEMBLY          | 1               | Prop           |                 |
| SPINNER          | A-2298-2P          | SPINNER ASSEMBLY          | 1               | Prop           |                 |
| SPIN MTG KIT     | A-2476-19          | SPINNER - MTG KIT         | 1               | Prop           |                 |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20    | 6               | Prop           |                 |

MAULE

**Model:** M-5-235C; M-6-235; M-7-235( , A, B, C); MX-7-235; MT-7-235; M-8-235

**Trade Name:**

**Aircraft T.C./STC:** SA04320CH

**Propeller Model:** HC-C3Y1R-1N

**Propeller T.C.:** P25EA

**Blade Model(s):** NG8301-5

**Prop Diameter:** 80"

### Prop Setup:

**Ref. Radius:** 30

**Reverse Angle:**

**Low Pitch Angle:** 12.3 +/- 0.2

**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 3549

**Rev.:** 4

**IC Date:** 07/23/2018

**Modifier:** Hartzell Propeller Inc

**Engine Model:** O-540-J1A5D, -J3A5; IO-540-W1A5(D)

**Power:** 235 HP @ 2400 RPM

**Placard/Restr:**

**Notes:**

**Startlock Angle:**

**Feather/High Angle:** 27.0 +/- 1.0

**Cwt Angle:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>        | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|---------------------------|-----------------|----------------|-----------------|
| PROPELLER        | C3R65550           | HC-C3Y1R-1N/NG8301-5/SM30 | 1               | A/C            |                 |
| PROPELLER        | C3R65550KD         | HC-C3Y1R-1N/NG8301-5/SM30 | 1               | A/C            |                 |
| BLADE            | NG8301-5           | PCP:BLADE ASSY, COMPOSITE | 3               | Prop           |                 |
| SPINNER          | C-3575             | SPINNER ASSEMBLY          | 1               | Prop           |                 |
| SPINNER          | C-3575-P           | SPINNER ASSEMBLY          | 1               | Prop           |                 |
| SPIN MTG KIT     | A-2476-30          | SPINNER - MTG KIT         | 1               | Prop           |                 |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20    | 6               | Prop           |                 |

# HARTZELL

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MAULE

**Model:** M-4-180V  
**Trade Name:**  
**Aircraft T.C./STC:** 3A23  
**Propeller Model:** HC-C2YR-1BF  
**Propeller T.C.:** P-920

**Blade Model(s):** F7666A  
**Prop Diameter:** 76" TO 72"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.0 +-0.2  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 2719      **Rev.:** 2      **IC Date:** 07/07/2015

**Modifier:**  
**Engine Model:** O-360-C1F  
**Power:** 180 HP @ 2700 RPM  
**Placard/Restr:** Avoid continuous operation between 2000 and 2250 RPM.

### **Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 28.8 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:** WOODWARD

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>           | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|------------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | C2R00021           | HC-C2YR-1BF/F7666A/SM19      | 1               | A/C            |                          |
| PROPELLER        | C2R00021S          | HC-C2YR-1BF/F7666A/A-2298-2P | 1               | A/C            |                          |
| BLADE            | F7666A             | PCP:BLADE UNIT, ALUM [1,1,1] | 2               | Prop           |                          |
| SPINNER          | A-2298-2P          | SPINNER ASSEMBLY             | 1               | Prop           |                          |
| SPIN MTG KIT     | A-2476-19          | SPINNER - MTG KIT            | 1               | Prop           |                          |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20       | 6               | Prop           |                          |
| OVERHAUL KIT     | HC-C2YR-1BF-OH     | O/H KIT                      | 1               | Prop           | For aftermarket use only |

MAULE

**Model:** M-4-220C, S, T  
**Trade Name:**  
**Aircraft T.C./STC:** STC-SA1199NW  
**Propeller Model:** HC-C2YF-1BF  
**Propeller T.C.:** P-920  
**Blade Model(s):** F8459A-4  
**Prop Diameter:** 80.0" TO 76.0"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 11.5 +-0.2  
**Stud Protrusion** 1.450 +-0.030

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 1417      **Rev.:** -      **DM Date:** 07/20/1999

**Modifier:** LI'L RED AERO, INC.  
**Engine Model:** 6A-350-C1  
**Power:** 220 HP @ 2800 RPM  
**Placard/Restr:**

### **Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 31.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>       | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|--------------------------|-----------------|----------------|-----------------|
| BLADE            | F8459A-4           | PCP:BLADE UNIT, ALUMINUM | 2               | Prop           |                 |
| SPINNER          | A-4203             | SPINNER ASSEMBLY         | 1               | Prop           |                 |
| SPINNER          | A-4203-P           | SPINNER ASSEMBLY         | 1               | Prop           |                 |
| SPIN MTG KIT     | A-2476-2           | SPINNER - MTG KIT        | 1               | Prop           |                 |
| MTG BOLT/STUD    | A-2429-4           | STUD, MOUNTING, 1/2-20   | 6               | Prop           |                 |

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MAULE

**Model:** M-5-180C, M-6-180, MX-7-180

**Trade Name:**

**Aircraft T.C./STC:** 3A23

**Propeller Model:** HC-C2YR-1BF

**Propeller T.C.:** P-920

**Blade Model(s):** F7666A

**Prop Diameter:** 76" TO 72"

### Prop Setup:

**Ref. Radius:** 30

**Reverse Angle:** NA

**Low Pitch Angle:** 12.0 +-0.2

**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 629

**Rev.:** 1

**IC Date:** 07/07/2015

**Modifier:**

**Engine Model:** O-360-C1F

**Power:** 180 HP @ 2700 RPM

**Placard/Restr:** Avoid continuous operation between 2000 and 2250 RPM.

**Notes:**

**Startlock Angle:** NA

**Feather/High Angle:** 28.8 +-1.0

**Cwt Angle:**

**Non-HPI Governor:** WOODWARD

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>           | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|------------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | C2R00021           | HC-C2YR-1BF/F7666A/SM19      | 1               | A/C            |                          |
| BLADE            | F7666A             | PCP:BLADE UNIT, ALUM [1,1,1] | 2               | Prop           |                          |
| SPINNER          | A-2298-2P          | SPINNER ASSEMBLY             | 1               | Prop           |                          |
| SPIN MTG KIT     | A-2476-19          | SPINNER - MTG KIT            | 1               | Prop           |                          |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20       | 6               | Prop           |                          |
| OVERHAUL KIT     | HC-C2YR-1BF-OH     | O/H KIT                      | 1               | Prop           | For aftermarket use only |

MAULE

**Model:** M-5-200

**Trade Name:**

**Aircraft T.C./STC:** 3A23

**Propeller Model:** HC-E2YR-1BF

**Propeller T.C.:** P9EA

**Blade Model(s):** F8467-7R

**Prop Diameter:** 77" TO 76.5"

### Prop Setup:

**Ref. Radius:** 30

**Reverse Angle:** NA

**Low Pitch Angle:** 12.0 +-0.2

**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 630

**Rev.:** 1

**IC Date:** 07/07/2015

**Modifier:**

**Engine Model:** IO-360-J1A6D

**Power:** 200 HP @ 2575 RPM

**Placard/Restr:**

**Notes:**

**Startlock Angle:** NA

**Feather/High Angle:** 31.5 +-1.5

**Cwt Angle:**

**Non-HPI Governor:** WOODWARD

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>       | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|--------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | E2R00043           | HC-E2YR-1BF/F8467-7R     | 1               | A/C            |                          |
| BLADE            | F8467-7R           | PCP:BLADE UNIT, ALUMINUM | 2               | Prop           |                          |
| SPINNER          | A-2298-2P          | SPINNER ASSEMBLY         | 1               | Prop           |                          |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20   | 6               | Prop           |                          |
| OVERHAUL KIT     | HC-E2YR-1BF-OH     | O/H KIT                  | 1               | Prop           | For aftermarket use only |

# HARTZELL

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MAULE

**Model:** M-5-210TC  
**Trade Name:**  
**Aircraft T.C./STC:** 3A23  
**Propeller Model:** HC-E2YR-1BF  
**Propeller T.C.:** P9EA  
**Blade Model(s):** F8467-7R  
**Prop Diameter:** 77" TO 76.5"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 15.0 +-0.1  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 632      **Rev.:** 1      **IC Date:** 07/07/2015

**Modifier:**  
**Engine Model:** TO-360-F1A6D  
**Power:** 210 HP @ 2575 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 31.5 +-1.5  
**Cwt Angle:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>       | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|--------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | E2R00045           | HC-E2YR-1BF/F8467-7R     | 1               | A/C            |                          |
| BLADE            | F8467-7R           | PCP:BLADE UNIT, ALUMINUM | 2               | Prop           |                          |
| SPINNER          | A-2298-2           | SPINNER ASSEMBLY         | 1               | Prop           |                          |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20   | 6               | Prop           |                          |
| OVERHAUL KIT     | HC-E2YR-1BF-OH     | O/H KIT                  | 1               | Prop           | For aftermarket use only |

MAULE

**Model:** M-5-210TC  
**Trade Name:**  
**Aircraft T.C./STC:** 3A23  
**Propeller Model:** HC-E2YR-1BF  
**Propeller T.C.:** P9EA  
**Blade Model(s):** F8467-7R  
**Prop Diameter:** 77" TO 76.5"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 15.0 +-0.1  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 631      **Rev.:** 1      **IC Date:** 07/07/2015

**Modifier:**  
**Engine Model:** TO-360-F1A6D  
**Power:** 210 HP @ 2575 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 31.5 +-1.5  
**Cwt Angle:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>       | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|--------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | E2R00044           | HC-E2YR-1BF/F8467-7R     | 1               | A/C            |                          |
| BLADE            | F8467-7R           | PCP:BLADE UNIT, ALUMINUM | 2               | Prop           |                          |
| SPINNER          | A-2298-2           | SPINNER ASSEMBLY         | 1               | Prop           |                          |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20   | 6               | Prop           |                          |
| OVERHAUL KIT     | HC-E2YR-1BF-OH     | O/H KIT                  | 1               | Prop           | For aftermarket use only |

# HARTZELL

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MAULE

IDS No.: 634 Rev.: 1 IC Date: 07/07/2015

**Model:** M-5-235C, M-6-235, M(X)-7-235

**Modifier:**

**Trade Name:**

**Engine Model:** O-540-J1A5D, IO-540-W1A5D

**Aircraft T.C./STC:** 3A23

**Power:** 235 HP @ 2400 RPM

**Propeller Model:** HC-C2YR-1BF

**Placard/Restr:** Do not exceed 23 inches MP below 2050 RPM

**Propeller T.C.:** P-920

**Notes:** F8468A-3R requires larger tire size per TCDS 3A23

**Blade Model(s):** F8468A-3R

F8468A-6R

**Prop Diameter:** 81.0" TO 77.0"

### Prop Setup:

**Ref. Radius:** 30

**Startlock Angle:** NA

**Reverse Angle:** NA

**Feather/High Angle:** 30.0 +-1.0

**Low Pitch Angle:** 16.0 +-0.1

**Cwt Angle:**

**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:** WOODWARD

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>           | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|------------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | C2R00038           | HC-C2YR-1BF/F8468A-3R/SM19   | 1               | A/C            |                          |
| PROPELLER        | C2R00040           | HC-C2YR-1BF/F8468A-6R/SM19   | 1               | A/C            |                          |
| BLADE            | F8468A-3R          | PCP:BLADE UNIT, ALUM [1,1,1] | 2               | Prop           |                          |
| BLADE            | F8468A-6R          | PCP:BLADE UNIT, ALUM [1,1,1] | 2               | Prop           |                          |
| SPINNER          | A-2298-2           | SPINNER ASSEMBLY             | 1               | Prop           |                          |
| SPIN MTG KIT     | A-2476-19          | SPINNER - MTG KIT            | 1               | Prop           |                          |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20       | 6               | Prop           |                          |
| OVERHAUL KIT     | HC-C2YR-1BF-OH     | O/H KIT                      | 1               | Prop           | For aftermarket use only |

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MAULE

IDS No.: 1864      Rev.: 2      IC      Date: 07/16/2015

**Model:** M-5-235C, M-6-235, M(X)7-235, M-7-235B,-  
C

**Modifier:**

**Trade Name:**

**Engine Model:** IO-540-W1A5D, IO-540-W1A5

**Aircraft T.C./STC:** 3A23

**Power:** 235 HP @ 2400 RPM

**Propeller Model:** HC-C3YR-1RF

**Placard/Restr:**

**Propeller T.C.:** P25EA

**Notes:**

**Blade Model(s):** F7693F

**Prop Diameter:** 78"

**Prop Setup:**

**Ref. Radius:** 30

**Startlock Angle:** NA

**Reverse Angle:** NA

**Feather/High Angle:** 31.0 +-1.0

**Low Pitch Angle:** 14.2 +-0.1

**Cwt Angle:**

**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>           | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|------------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | C3R00902           | HC-C3YR-1RF/F7693F/SM5       | 1               | A/C            |                          |
| PROPELLER        | C3R00902KD         | HC-C3YR-1RF/F7693F/SM5       | 1               | A/C            |                          |
| BLADE            | F7693F             | PCP:BLADE UNIT, ALUM [1,1,1] | 3               | Prop           |                          |
| SPINNER          | C-3535-1P          | SPINNER ASSEMBLY             | 1               | Prop           |                          |
| SPIN MTG KIT     | A-2476-5           | SPINNER - MTG KIT            | 1               | Prop           |                          |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20       | 6               | Prop           |                          |
| OVERHAUL KIT     | HC-C3YR-1RF-OH     | O/H KIT                      | 1               | Prop           | For aftermarket use only |

# HARTZELL

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MAULE

**Model:** M-7-235  
**Trade Name:**  
**Aircraft T.C./STC:** Experimental  
**Propeller Model:** HC-C2YR-1BF  
**Propeller T.C.:** P-920  
**Blade Model(s):** F8468A-3R  
F8468A-6R  
**Prop Diameter:** 81.0" TO 77.0"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.8 +-0.1  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 1219 **Rev.:** 1 **IC Date:** 07/07/2015

**Modifier:**  
**Engine Model:** O-540-B4B5  
**Power:** 235 HP @ 2575 RPM  
**Placard/Restr:**

**Notes:** -3R balde requires large tire

**Startlock Angle:** NA  
**Feather/High Angle:** 30.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| Item Type     | Item Number    | Description                  | Quantity | Qty Per | Comments                 |
|---------------|----------------|------------------------------|----------|---------|--------------------------|
| PROPELLER     | C2R00037       | HC-C2YR-1BF/F8468A-3R/SM19   | 1        | A/C     |                          |
| PROPELLER     | C2R00041       | HC-C2YR-1BF/F8468A-6R/SM19   | 1        | A/C     |                          |
| BLADE         | F8468A-3R      | PCP:BLADE UNIT, ALUM [1,1,1] | 2        | Prop    |                          |
| BLADE         | F8468A-6R      | PCP:BLADE UNIT, ALUM [1,1,1] | 2        | Prop    |                          |
| SPINNER       | A-2298-2       | SPINNER ASSEMBLY             | 1        | Prop    |                          |
| SPINNER       | A-2298-2P      | SPINNER ASSEMBLY             | 1        | Prop    |                          |
| SPIN MTG KIT  | A-2476-19      | SPINNER - MTG KIT            | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2067         | STUD, MOUNTING, 1/2-20       | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-C2YR-1BF-OH | O/H KIT                      | 1        | Prop    | For aftermarket use only |

MAULE

**Model:** M(T)-7-235( )  
**Trade Name:**  
**Aircraft T.C./STC:** 3A23  
**Propeller Model:** HC-C3YR-1RF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** F7693F\*1  
**Prop Diameter:** 78" TO 76"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 14.2 +-0.2  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 1518 **Rev.:** 1 **IC Date:** 07/16/2015

**Modifier:**  
**Engine Model:** O-540-J3A5  
**Power:** 235 HP @ 2400 RPM  
**Placard/Restr:**

**Notes:**  
**Startlock Angle:** NA  
**Feather/High Angle:** 31.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| Item Type     | Item Number    | Description                  | Quantity | Qty Per | Comments                 |
|---------------|----------------|------------------------------|----------|---------|--------------------------|
| PROPELLER     | C3R00040       | HC-C3YR-1RF/F7693F [*1]      | 1        | A/C     |                          |
| BLADE         | F7693F*1       | PCP:BLADE UNIT, ALUM [3,1,1] | 3        | Prop    |                          |
| SPINNER       | C-3535-1P      | SPINNER ASSEMBLY             | 1        | Prop    |                          |
| SPIN MTG KIT  | A-2476-5       | SPINNER - MTG KIT            | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2067         | STUD, MOUNTING, 1/2-20       | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-C3YR-1RF-OH | O/H KIT                      | 1        | Prop    | For aftermarket use only |

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**MAULE**

IDS No.: 1517      Rev.: 1      IC      Date: 07/07/2015

**Model:** M(T)-7-235( )  
**Trade Name:**  
**Aircraft T.C./STC:** 3A23  
**Propeller Model:** HC-C2YR-1BF  
**Propeller T.C.:** P-920  
**Blade Model(s):** F8477D-6  
**Prop Diameter:** 78"

**Modifier:**  
**Engine Model:** O-540-B4B5  
**Power:** 235 HP @ 2575 RPM  
**Placard/Restr:**  
**Notes:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 14.3 +-0.1  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 30.0 +-1.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:** WOODWARD

**Hartzell Approved Items:**

| Item Type     | Item Number    | Description                  | Quantity | Qty Per | Comments                 |
|---------------|----------------|------------------------------|----------|---------|--------------------------|
| PROPELLER     | C2R00075       | HC-C2YR-1BF/F8477D-6/SM19    | 1        | A/C     |                          |
| BLADE         | F8477D-6       | PCP:BLADE UNIT, ALUM [1,1,1] | 2        | Prop    |                          |
| SPINNER       | A-2298-2       | SPINNER ASSEMBLY             | 1        | Prop    |                          |
| GOVERNOR      | S-1-13         | GOVERNOR ASSEMBLY, S-1-13    | 1        | A/C     |                          |
| SPIN MTG KIT  | A-2476-19      | SPINNER - MTG KIT            | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2067         | STUD, MOUNTING, 1/2-20       | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-C2YR-1BF-OH | O/H KIT                      | 1        | Prop    | For aftermarket use only |

**MAULE**

IDS No.: 1516      Rev.: 1      IC      Date: 07/16/2015

**Model:** M(T)-7-235( )  
**Trade Name:**  
**Aircraft T.C./STC:** 3A23  
**Propeller Model:** HC-C3YR-1RF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** F7693F\*1  
**Prop Diameter:** 78" TO 76"

**Modifier:**  
**Engine Model:** O-540-B4B5  
**Power:** 235 HP @ 2575 RPM  
**Placard/Restr:**  
**Notes:** S-1-13 Governor approved for aircraft models M-7-235B & M-7-235C only.

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.5 +-0.2  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 31.0 +-1.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type     | Item Number    | Description                  | Quantity | Qty Per | Comments                 |
|---------------|----------------|------------------------------|----------|---------|--------------------------|
| PROPELLER     | C3R00042       | HC-C3YR-1RF/F7693F[*1]/SM5   | 1        | A/C     |                          |
| BLADE         | F7693F*1       | PCP:BLADE UNIT, ALUM [3,1,1] | 3        | Prop    |                          |
| SPINNER       | C-3535-1P      | SPINNER ASSEMBLY             | 1        | Prop    |                          |
| SPIN MTG KIT  | A-2476-5       | SPINNER - MTG KIT            | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2067         | STUD, MOUNTING, 1/2-20       | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-C3YR-1RF-OH | O/H KIT                      | 1        | Prop    | For aftermarket use only |



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**MAULE**

IDS No.: 1519 Rev.: 1 IC Date: 07/07/2015

Model: M(T)-7-235( )  
 Trade Name:  
 Aircraft T.C./STC: 3A23  
 Propeller Model: HC-C2YR-1BF  
 Propeller T.C.: P-920  
 Blade Model(s): F8477D-6  
 Prop Diameter: 78"

Modifier:  
 Engine Model: O-540-J3A5  
 Power: 235 HP @ 2400 RPM  
 Placard/Restr:  
 Notes:

**Prop Setup:**

Ref. Radius: 30  
 Reverse Angle: NA  
 Low Pitch Angle: 16.7 +-0.1  
 Stud Protrusion

Startlock Angle: NA  
 Feather/High Angle: 30.0 +-1.0  
 Cwt Angle:

**Non-HPI Items:**

Non-HPI Spinner:

Non-HPI Governor: WOODWARD

**Hartzell Approved Items:**

| Item Type     | Item Number    | Description                  | Quantity | Qty Per | Comments                 |
|---------------|----------------|------------------------------|----------|---------|--------------------------|
| PROPELLER     | ECC2R00076     | HC-C2YR-1BF/F8477D-6/SM19    | 1        | A/C     |                          |
| BLADE         | F8477D-6       | PCP:BLADE UNIT, ALUM [1,1,1] | 2        | Prop    |                          |
| SPINNER       | A-2298-2       | SPINNER ASSEMBLY             | 1        | Prop    |                          |
| SPIN MTG KIT  | A-2476-19      | SPINNER - MTG KIT            | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2067         | STUD, MOUNTING, 1/2-20       | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-C2YR-1BF-OH | O/H KIT                      | 1        | Prop    | For aftermarket use only |

**MAULE**

IDS No.: 1444 Rev.: 1 IC Date: 07/07/2015

Model: M(T)-7-260  
 Trade Name:  
 Aircraft T.C./STC: 3A23  
 Propeller Model: HC-C2YR-1BF  
 Propeller T.C.: P-920  
 Blade Model(s): F8477D-6  
 Prop Diameter: 78"

Modifier:  
 Engine Model: IO-540-V4A5  
 Power: 260 HP @ 2700 RPM  
 Placard/Restr:  
 Notes:

**Prop Setup:**

Ref. Radius: 30  
 Reverse Angle: NA  
 Low Pitch Angle: 13.5 +-0.1  
 Stud Protrusion

Startlock Angle: NA  
 Feather/High Angle: 30.0 +-1.0  
 Cwt Angle:

**Non-HPI Items:**

Non-HPI Spinner:

Non-HPI Governor: WOODWARD

**Hartzell Approved Items:**

| Item Type     | Item Number    | Description                  | Quantity | Qty Per | Comments                 |
|---------------|----------------|------------------------------|----------|---------|--------------------------|
| PROPELLER     | C2R00071       | HC-C2YR-1BF/F8477D-6/SM19    | 1        | A/C     |                          |
| BLADE         | F8477D-6       | PCP:BLADE UNIT, ALUM [1,1,1] | 2        | Prop    |                          |
| SPINNER       | A-2298-2       | SPINNER ASSEMBLY             | 1        | Prop    |                          |
| SPIN MTG KIT  | A-2476-19      | SPINNER - MTG KIT            | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2067         | STUD, MOUNTING, 1/2-20       | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-C2YR-1BF-OH | O/H KIT                      | 1        | Prop    | For aftermarket use only |

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**MAULE**

IDS No.: 1528      Rev.: 1      IC      Date: 07/16/2015

**Model:** M-7-260, M-7-260C, M(T)-7-260

**Modifier:**

**Trade Name:**

**Engine Model:** IO-540-V4A5

**Aircraft T.C./STC:** 3A23

**Power:** 260 HP @ 2700 RPM

**Propeller Model:** HC-C3YR-1RF

**Placard/Restr:**

**Propeller T.C.:** P25EA

**Notes:**

**Blade Model(s):** F7693F-1  
F7693F-1\*1

**Prop Diameter:** 77" to 76"

**Prop Setup:**

**Ref. Radius:** 30

**Startlock Angle:** NA

**Reverse Angle:** NA

**Feather/High Angle:** 31.0 +-1.0

**Low Pitch Angle:** 12.0 +-0.2

**Cwt Angle:**

**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>           | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|------------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | C3R00036           | HC-C3YR-1RF/F7693F-1/SM5     | 1               | A/C            |                          |
| PROPELLER        | C3R00039           | HC-C3YR-1RF/F7693F-1[*1]/SM5 | 1               | A/C            |                          |
| BLADE            | F7693F-1           | PCP:BLADE UNIT, ALUM [1,1,1] | 3               | Prop           |                          |
| BLADE            | F7693F-1*1         | PCP:BLADE UNIT, ALUM [3,1,1] | 3               | Prop           |                          |
| SPINNER          | C-3535-1P          | SPINNER ASSEMBLY             | 1               | Prop           |                          |
| GOVERNOR         | S-1-15             | GOVERNOR ASSEMBLY, S-1-15    | 1               | A/C            |                          |
| SPIN MTG KIT     | A-2476-5           | SPINNER - MTG KIT            | 1               | Prop           |                          |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20       | 6               | Prop           |                          |
| OVERHAUL KIT     | HC-C3YR-1RF-OH     | O/H KIT                      | 1               | Prop           | For aftermarket use only |

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MAULE

IDS No.: 1296 Rev.: 1 IC Date: 07/16/2015

**Model:** M-7-260, M-7-260C, M(T)-7-260

**Modifier:**

**Trade Name:**

**Engine Model:** IO-540-V4A5

**Aircraft T.C./STC:** 3A23

**Power:** 260 HP @ 2700 RPM

**Propeller Model:** HC-C3YR-1RF

**Placard/Restr:**

**Propeller T.C.:** P25EA

**Notes:**

**Blade Model(s):** F7693F

F7693F\*1

**Prop Diameter:** 78" TO 76"

**Prop Setup:**

**Ref. Radius:** 30

**Startlock Angle:** NA

**Reverse Angle:** NA

**Feather/High Angle:** 31.0 +-1.0

**Low Pitch Angle:** 12.0 +-0.2

**Cwt Angle:**

**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>           | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|------------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | C3R00033           | HC-C3YR-1RF/F7693F[*1]/SM5   | 1               | A/C            |                          |
| PROPELLER        | C3R00035           | HC-C3YR-1RF/F7693F/SM5       | 1               | A/C            |                          |
| PROPELLER        | C3R00035KD         | HC-C3YR-1RF/F7693F/SM5       | 1               | A/C            |                          |
| BLADE            | F7693F             | PCP:BLADE UNIT, ALUM [1,1,1] | 3               | Prop           |                          |
| BLADE            | F7693F*1           | PCP:BLADE UNIT, ALUM [3,1,1] | 3               | Prop           |                          |
| SPINNER          | C-3535-1P          | SPINNER ASSEMBLY             | 1               | Prop           |                          |
| SPIN MTG KIT     | A-2476-5           | SPINNER - MTG KIT            | 1               | Prop           |                          |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20       | 6               | Prop           |                          |
| OVERHAUL KIT     | HC-C3YR-1RF-OH     | O/H KIT                      | 1               | Prop           | For aftermarket use only |

# HARTZELL

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MAULE

IDS No.: 635 Rev.: 2 IC Date: 07/15/2015

**Model:** M-7-420

**Trade Name:**

**Aircraft T.C./STC:** STC-SA2661SO

**Propeller Model:** HC-B3TF-7A

**Propeller T.C.:** P15EA

**Blade Model(s):** T10173-11R

T10173F-11R

T10173FN-11R

T10173N-11R

**Prop Diameter:** 90.5" TO 88.0"

### Prop Setup:

**Ref. Radius:** 30

**Reverse Angle:** -15.0 +-0.5

**Low Pitch Angle:** 12.2 +-0.1

**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**Modifier:** MAULE TECHNOLOGIES

**Engine Model:** 250-B17C

**Power:** 420 HP @ 2030 RPM

**Placard/Restr:**

**Notes:** Both "F" and Non-"F" blades are vibration approved, but this STC only covers the "F" blades.

**Startlock Angle:** NA

**Feather/High Angle:** 81.1 +-0.5

**Cwt Angle:** Positive

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u>               | <u>Item Number</u> | <u>Description</u>             | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|--------------------------------|--------------------|--------------------------------|-----------------|----------------|--------------------------|
| PROPELLER                      | B3F10050S          | HC-B3TF-7A/T10173N-11R/A3640P  | 1               | A/C            |                          |
| PROPELLER                      | B3F10051           | HC-B3TF-7A/T10173FN-11R        | 1               | A/C            |                          |
| PROPELLER                      | B3F10051S          | HC-B3TF-7A/T10173FN-11R/A3640P | 1               | A/C            |                          |
| BLADE                          | T10173-11R         | BLADE                          | 3               | Prop           |                          |
| BLADE                          | T10173F-11R        | BLADE                          | 3               | Prop           |                          |
| BLADE                          | T10173FN-11R       | PCP:BLADE UNIT, ALUMINUM       | 3               | Prop           |                          |
| BLADE                          | T10173N-11R        | PCP:BLADE UNIT, ALUM [1,1,1]   | 3               | Prop           |                          |
| SPINNER                        | A-3640             | SPINNER ASSEMBLY               | 1               | Prop           |                          |
| SPINNER                        | A-3640-P           | SPINNER ASSEMBLY               | 1               | Prop           |                          |
| SPIN MTG KIT                   | A-3648             | SPINNER - MTG KIT              | 1               | Prop           |                          |
| COUNTERWEIGHT SLUG B-3386-14H  |                    | BOLT,3/8-24,HEX HEAD           | 2               | Blade          |                          |
| COUNTERWEIGHT SLUG B-3663-3    |                    | PCP:SLUG, COUNTERWEIGHT        | 1               | Blade          |                          |
| COUNTERWEIGHT SLUG B-3834-0632 |                    | WASHER                         | 2               | Blade          |                          |
| MTG BOLT/STUD                  | A-1328-1           | BOLT,MOUNTING,1/2-20,12 POINT  | 6               | Prop           |                          |
| OVERHAUL KIT                   | HC-B3TF-7A-OH      | O/H KIT                        | 1               | Prop           | For aftermarket use only |

# HARTZELL

## APPLICATION GUIDE 159

### MAULE

**Model:** MX (T)-7-420  
**Trade Name:**  
**Aircraft T.C./STC:** 3A23  
**Propeller Model:** HC-B3TF-7A  
**Propeller T.C.:** P15EA  
**Blade Model(s):** T10173F-21R  
 T10173FN-21R  
**Prop Diameter:** 80.5" TO 78"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** -15.0 +-0.5  
**Low Pitch Angle:** 12.2 +-0.1  
**Stud Protrusion**

#### Non-HPI Items:

Non-HPI Spinner:

#### Hartzell Approved Items:

| Item Type          | Item Number   | Description                    | Quantity | Qty Per | Comments                 |
|--------------------|---------------|--------------------------------|----------|---------|--------------------------|
| PROPELLER          | B3F10066      | HC-B3TF-7A/T10173FN-21R        | 1        | A/C     |                          |
| PROPELLER          | B3F10066S     | HC-B3TF-7A/T10173FN-21R/A3640P | 1        | A/C     |                          |
| BLADE              | T10173F-21R   | BLADE                          | 3        | Prop    |                          |
| BLADE              | T10173FN-21R  | PCP:BLADE UNIT, ALUMINUM       | 3        | Prop    |                          |
| SPINNER            | A-3640-P      | SPINNER ASSEMBLY               | 1        | Prop    |                          |
| SPIN MTG KIT       | A-3648        | SPINNER - MTG KIT              | 1        | Prop    |                          |
| COUNTERWEIGHT SLUG | B-3386-14H    | BOLT,3/8-24,HEX HEAD           | 2        | Blade   |                          |
| COUNTERWEIGHT SLUG | B-3663-3      | PCP:SLUG, COUNTERWEIGHT        | 1        | Blade   |                          |
| COUNTERWEIGHT SLUG | B-3834-0632   | WASHER                         | 2        | Blade   |                          |
| MTG BOLT/STUD      | A-1328-1      | BOLT,MOUNTING,1/2-20,12 POINT  | 6        | Prop    |                          |
| OVERHAUL KIT       | HC-B3TF-7A-OH | O/H KIT                        | 1        | Prop    | For aftermarket use only |

IDS No.: 636 Rev.: 2 IC Date: 07/15/2015

**Modifier:**  
**Engine Model:** 250-B17C  
**Power:** 369 HP @ 2030 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 81.1 +-0.5  
**Cwt Angle:** Positive

Non-HPI Governor:

### MCCULLOCH

**Model:** J-2  
**Trade Name:**  
**Aircraft T.C./STC:** H6WE  
**Propeller Model:** HC-C3YR-1RLF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** FL7663-4R  
**Prop Diameter:** 74"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 10.0 +-0.1  
**Stud Protrusion**

#### Non-HPI Items:

Non-HPI Spinner:

#### Hartzell Approved Items:

| Item Type     | Item Number | Description              | Quantity | Qty Per | Comments |
|---------------|-------------|--------------------------|----------|---------|----------|
| BLADE         | FL7663-4R   | PCP:BLADE UNIT, ALUMINUM | 3        | Prop    |          |
| GOVERNOR      | H1-1        | IDS Item                 | 0        |         |          |
| MTG BOLT/STUD | A-2067      | STUD, MOUNTING, 1/2-20   | 6        | Prop    |          |

IDS No.: 637 Rev.: - DM Date: 10/01/1992

**Modifier:**  
**Engine Model:** IO-360  
**Power:** 180 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 24.6 +-2.4  
**Cwt Angle:**

Non-HPI Governor:

# HARTZELL

## APPLICATION GUIDE 159

MCKINNON

Model: see GRUMMAN

Trade Name:  
Aircraft T.C./STC:  
Propeller Model:

Propeller T.C.:  
Blade Model(s):  
Prop Diameter:

### Prop Setup:

Ref. Radius:  
Reverse Angle:  
Low Pitch Angle:  
Stud Protrusion

### Non-HPI Items:

Non-HPI Spinner:

### Hartzell Approved Items:

IDS No.: 638      Rev.: -      DM Date: 10/01/1992

Modifier:  
Engine Model:  
Power:      HP @      RPM  
Placard/Restr:  
Notes:

Startlock Angle:  
Feather/High Angle:  
Cwt Angle:

Non-HPI Governor:

MESSERSCHMITT

Model: 207

Trade Name:  
Aircraft T.C./STC: Unknown  
Propeller Model: HC-92ZK-8D

Propeller T.C.: P892  
Blade Model(s): 8447A-12A  
8447AN-12A

Prop Diameter: 72

### Prop Setup:

Ref. Radius: 30  
Reverse Angle: NA  
Low Pitch Angle: 13.0 +-0.2  
Stud Protrusion

### Non-HPI Items:

Non-HPI Spinner:

### Hartzell Approved Items:

IDS No.: 1932      Rev.: -      DM Date: 09/08/2004

Modifier:  
Engine Model: O-360-A1A  
Power:      180 HP @      2700 RPM  
Placard/Restr:  
Notes:

Startlock Angle: NA  
Feather/High Angle: 27.0 +-1.0  
Cwt Angle: NA

Non-HPI Governor:

| Item Type     | Item Number | Description                   | Quantity | Qty Per | Comments  |
|---------------|-------------|-------------------------------|----------|---------|-----------|
| PROPELLER     | 92K00110    | HC-92ZK-8D/8447A-12A          | 1        | A/C     |           |
| BLADE         | 8447A-12A   | BLADE UNIT, ALUMINUM          | 2        | Prop    |           |
| BLADE         | 8447AN-12A  | PCP:BLADE UNIT, ALUMINUM      | 2        | Prop    |           |
| MTG BOLT/STUD | A-1333      | BOLT,MOUNTING,1/2-20,HEX HEAD | 4        | Prop    | Primary   |
| MTG BOLT/STUD | A-1333-2    | IDS Item                      | 2        | Prop    | Primary   |
| MTG BOLT/STUD | A-1333-3    | BOLT,MOUNTING,1/2-20,HEX HEAD | 2        | Prop    | Secondary |
| MTG BOLT/STUD | A-1333-6    | BOLT,MOUNTING,1/2-20,HEX HEAD | 2        | Prop    | Secondary |

# HARTZELL

## APPLICATION GUIDE 159

**MESSERSCHMITT**

**Model:** BO209-150FV, RV  
**Trade Name:**  
**Aircraft T.C./STC:** A27EU  
**Propeller Model:** HC-C2YL-1BF  
**Propeller T.C.:** P-920  
**Blade Model(s):** F7663A-6  
**Prop Diameter:** 70" NO CUT OFF

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.2 +-0.2  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:** MBB

**Hartzell Approved Items:**

| Item Type     | Item Number    | Description                    | Quantity | Qty Per | Comments                 |
|---------------|----------------|--------------------------------|----------|---------|--------------------------|
| PROPELLER     | C2L00051       | HC-C2YL-1BF/F7663A-6           | 1        | A/C     |                          |
| BLADE         | F7663A-6       | PCP:BLADE UNIT, ALUMINUM       | 2        | Prop    |                          |
| MTG BOLT/STUD | A-2247-1       | STUD, MOUNTING,7/16-20,DRILLED | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-C2YL-1BF-OH | O/H KIT                        | 1        | Prop    | For aftermarket use only |

**IDS No.:** 639      **Rev.:** 1      **IC Date:** 07/07/2015

**Modifier:**  
**Engine Model:** O-320-E1C, -E1F  
**Power:** 150 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 27.0 +-0.5  
**Cwt Angle:**

**Non-HPI Governor:** WOODWARD

**MESSERSCHMITT**

**Model:** BO209-160FV, RV  
**Trade Name:**  
**Aircraft T.C./STC:** A27EU  
**Propeller Model:** HC-C2YL-1BF  
**Propeller T.C.:** P-920  
**Blade Model(s):** F7663A-6  
**Prop Diameter:** 70" NO CUT OFF

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 14.95 +-0.2  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:** MBB, 209-61056

**Hartzell Approved Items:**

| Item Type     | Item Number    | Description                    | Quantity | Qty Per | Comments                 |
|---------------|----------------|--------------------------------|----------|---------|--------------------------|
| PROPELLER     | C2L00053       | HC-C2YL-1BF/F7663A-6           | 0        |         |                          |
| BLADE         | F7663A-6       | PCP:BLADE UNIT, ALUMINUM       | 2        | Prop    |                          |
| MTG BOLT/STUD | A-2247-1       | STUD, MOUNTING,7/16-20,DRILLED | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-C2YL-1BF-OH | O/H KIT                        | 1        | Prop    | For aftermarket use only |

**IDS No.:** 640      **Rev.:** 1      **IC Date:** 07/07/2015

**Modifier:**  
**Engine Model:** IO-320-D1A, -D1B  
**Power:** 160 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 27.0 +-0.5  
**Cwt Angle:**

**Non-HPI Governor:** WOODWARD

# HARTZELL

## APPLICATION GUIDE 159

### MEYERS

**Model:** MAC145  
**Trade Name:**  
**Aircraft T.C./STC:** 3A1  
**Propeller Model:** HA-12UF  
**Propeller T.C.:**  
**Blade Model(s):** 8032-6  
**Prop Diameter:** 74" TO 72.5"

#### Prop Setup:

**Ref. Radius:** 0  
**Reverse Angle:** NA  
**Low Pitch Angle:** 15.0 +/-0.2  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

#### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u> | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|--------------------|-----------------|----------------|-----------------|
| BLADE            | 8032-6             | IDS Item           | 2               | Prop           |                 |

**IDS No.:** 641      **Rev.:** -      **DM Date:** 10/01/1992

**Modifier:**  
**Engine Model:** C-145-2  
**Power:** 145 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** NA  
**Cwt Angle:**

**Non-HPI Governor:**

### MEYERS 200

**Model:** see PROP JETS INC.  
**Trade Name:**  
**Aircraft T.C./STC:**  
**Propeller Model:**  
**Propeller T.C.:**  
**Blade Model(s):**  
**Prop Diameter:**

#### Prop Setup:

**Ref. Radius:**  
**Reverse Angle:**  
**Low Pitch Angle:**  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

#### Hartzell Approved Items:

**IDS No.:** 642      **Rev.:** -      **DM Date:** 10/01/1992

**Modifier:**  
**Engine Model:**  
**Power:** HP @ RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:**  
**Feather/High Angle:**  
**Cwt Angle:**

**Non-HPI Governor:**



# HARTZELL

## APPLICATION GUIDE

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MICCO

IDS No.: 1614      Rev.: 1      IC      Date: 07/16/2015

**Model:** MAC-145B  
**Trade Name:** SP-26  
**Aircraft T.C./STC:** 3A1  
**Propeller Model:** HC-C3YR-1RF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** F7693F  
**Prop Diameter:** 78" TO 76"

**Modifier:**  
**Engine Model:** IO-540-T4B5  
**Power:** 260 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 11.7 +/-0.2  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 31.0 +/-1.0  
**Cwt Angle:**

### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>           | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|------------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | C3R00038           | HC-C3YR-1RF/F7693F/SM18      | 1               | A/C            |                          |
| BLADE            | F7693F             | PCP:BLADE UNIT, ALUM [1,1,1] | 3               | Prop           |                          |
| SPINNER          | C-3535-1P          | SPINNER ASSEMBLY             | 1               | Prop           |                          |
| SPIN MTG KIT     | A-2476-18          | SPINNER - MTG KIT            | 1               | Prop           |                          |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20       | 6               | Prop           |                          |
| OVERHAUL KIT     | HC-C3YR-1RF-OH     | O/H KIT                      | 1               | Prop           | For aftermarket use only |

# HARTZELL

## APPLICATION GUIDE 159

Mitsubishi

**Model:** MU-2B-(26A,40,36A,60)  
**Trade Name:** MU-2  
**Aircraft T.C./STC:** SA09916AC  
**Propeller Model:** HC-E4N-5KFL  
**Propeller T.C.:** P10NE

**IDS No.:** 3739      **Rev.:** 2      **IC Date:** 11/06/2020

**Modifier:** Intercontinental Jet Service Corp (IJSC)  
**Engine Model:** TPE-331-(5-252M,10-501M,10-511M)  
**Power:** 715 HP @ 1591 RPM  
**Placard/Restr:** All Models: Stabilized ground operation is prohibited between 60% and 75% RPM (955 and 1193 RPM). The propeller blades must be shot peened between stations 7.0 and 20.0 on both face and camber sides. See approval for additional shot peen specifics. Additional for MU-2B-(36A,40) only: Bank angles in excess of 45° are prohibited when operating at gross weights greater than 10,470 pounds.

**Blade Model(s):** JE9782SB  
**Prop Diameter:** 97.7"

**Notes:**

**Prop Setup:**

**Ref. Radius:** 30"  
**Reverse Angle:** -6.0 +- 0.5  
**Low Pitch Angle:**  
**Stud Protrusion**

**Startlock Angle:** 2.5 +- 0.1  
**Feather/High Angle:** 88.0 +- 0.7  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>              | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|---------------------------------|-----------------|----------------|-----------------|
| PROPELLER        | E4N00394S          | HC-E4N-5KFL/JE9782SB/107528P    | 2               | A/C            |                 |
| PROPELLER        | E4N00394SKD        | HC-E4N-5KFL/JE9782SB/107528P    | 2               | A/C            |                 |
| BLADE            | JE9782SB           | PCP: BLADE UNIT, ALUM [6,16,11] | 4               | Prop           |                 |
| SPINNER          | 107528             | SPINNER ASSEMBLY                | 1               | Prop           |                 |
| SPINNER          | 107528P            | SPINNER ASSEMBLY                | 1               | Prop           |                 |
| SP MT KIT DE-ICE | 104789             | SCREW, 1/4-28, 100± HEAD        | 8               | Prop           |                 |
| SP MT KIT DE-ICE | B-3860-416         | WASHER, DIMPLED, 100° CRES      | 8               | Prop           |                 |
| COUNTERWEIGHT    | C-472-1            | PCP:COUNTERWEIGHT               | 1               | Blade          |                 |
| DE-ICER          | 107687             | DE-ICE BOOT                     | 1               | Blade          |                 |
| DE-ICE KIT PR    | 107608             | DE-ICE KIT (ONE PROP)           | 1               | Prop           |                 |
| DE-ICE KIT A/F   | 107606             | AIRFRAME DE-ICE KIT             | 1               | A/C            |                 |
| MTG BOLT/STUD    | C-6006             | NUT,MOUNTING,9/16-18,12 POINT   | 8               | Prop           |                 |

# HARTZELL

## APPLICATION GUIDE

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**mitsubishi**

IDS No.: 643      Rev.: 3      IC      Date: 01/27/2020

**Model:** MU-2B,MU-2B-10 (MU-2B)

**Modifier:**

**Trade Name:**

**Engine Model:** TPE331-25A, -25AA, -25AB

**Aircraft T.C./STC:** A2PC

**Power:** 575 HP @ 2000 RPM

**Propeller Model:** HC-B3TN-5M

**Placard/Restr:**

**Propeller T.C.:** P15EA

**Notes:** 4E1188-5 may be replaced by 4E2200-10 per BFG dwg 7E1384.

**Blade Model(s):** T10176NS-5  
T10176NSB-5  
T10176NSK-5  
T10176S-5  
T10176SB-5  
T10176SK-5

**Prop Diameter:** 96" NO CUT OFF

**Prop Setup:**

**Ref. Radius:** 30

**Startlock Angle:** 2.4 +-0.1

**Reverse Angle:** -6.5 +-0.5

**Feather/High Angle:** 86.5 +-0.5

**Low Pitch Angle:** 12.0 F.I.

**Cwt Angle:** Positive

**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:** WOODWARD

**Hartzell Approved Items:**

| Item Type                      | Item Number   | Description                       | Quantity | Qty Per | Comments                 |
|--------------------------------|---------------|-----------------------------------|----------|---------|--------------------------|
| PROPELLER                      | B3N10785S     | HC-B3TN-5M/T10176NSB-5/C3043-3    | 2        | A/C     |                          |
| BLADE                          | T10176NS-5    | PCP:BLADE UNIT, ALUMINUM          | 3        | Prop    |                          |
| BLADE                          | T10176NSB-5   | PCP:BLADE UNIT, ALUMINUM          | 3        | Prop    |                          |
| BLADE                          | T10176NSK-5   | IDS ITEM, BLADE, 4E1188-5 BOOT    | 3        | Prop    |                          |
| BLADE                          | T10176S-5     | BLADE                             | 3        | Prop    |                          |
| BLADE                          | T10176SB-5    | BLADE, 4E1188-3 BOOT              | 3        | Prop    |                          |
| BLADE                          | T10176SK-5    | IDS ITEM, BLADE, 4E1188-5 BOOT    | 3        | Prop    |                          |
| SPINNER                        | C-3043-3      | SPINNER ASSEMBLY                  | 1        | Prop    |                          |
| SPIN MTG KIT                   | B-3384-8H     | BOLT, 1/4-28, HEX HEAD            | 9        | Prop    |                          |
| SPIN MTG KIT                   | B-3808-4      | NUT,HEX,SELF-LOCKING              | 9        | Prop    |                          |
| SPIN MTG KIT                   | B-3851-0432   | WASHER                            | 9        | Prop    |                          |
| SP MT KIT DE-ICE               | B-3384-23     | BOLT, 1/4-28, HEX HEAD            | 9        | Prop    |                          |
| SP MT KIT DE-ICE               | B-3808-4      | NUT,HEX,SELF-LOCKING              | 9        | Prop    |                          |
| SP MT KIT DE-ICE               | B-3851-0463   | WASHER                            | 27       | Prop    |                          |
| SP MT KIT DE-ICE               | B-7070-42     | IDS Item                          | 27       | Prop    |                          |
| COUNTERWEIGHT SLUG A-3039      |               | SLUG, COUNTERWEIGHT               | 1        | Blade   |                          |
| COUNTERWEIGHT SLUG A-890-8     |               | PCP:SLUG, COUNTERWEIGHT           | 1        | Blade   |                          |
| COUNTERWEIGHT SLUG B-3384-18H  |               | BOLT, 1/4-28, HEX HEAD            | 2        | Blade   |                          |
| COUNTERWEIGHT SLUG B-3851-0432 |               | WASHER                            | 2        | Blade   | Optional                 |
| COUNTERWEIGHT SLUG B-3851-0463 |               | WASHER                            | 2        | Blade   | Optional                 |
| DE-ICER                        | 4H1188-5      | DE-ICE BOOT                       | 1        | Blade   | Supersedes 7931-4E1188-5 |
| DE-ICE KIT PR                  | 7931-77-195-1 | DE-ICE KIT (ONE PROP)             | 1        | Prop    |                          |
| MTG BOLT/STUD                  | B-3339        | BOLT, MOUNTING, 9/16-18, 12 POINT | 8        | Prop    |                          |
| OVERHAUL KIT                   | HC-B3TN-5M-OH | O/H KIT                           | 1        | Prop    | For aftermarket use only |

# HARTZELL

## APPLICATION GUIDE

159

**mitsubishi**

IDS No.: 644      Rev.: 3      IC      Date: 01/27/2020

**Model:** MU-2B, MU-2B-10 (MU-2B)

**Modifier:**

**Trade Name:**

**Engine Model:** TPE331-25A, -25AA, -25AB

**Aircraft T.C./STC:** A2PC

**Power:** 575 HP @ 2000 RPM

**Propeller Model:** HC-B3TN-5M

**Placard/Restr:**

**Propeller T.C.:** P15EA

**Notes:** -5M Supercedes -5C and -5E

**Blade Model(s):** T10178-11  
 T10178-11R  
 T10178B-11\*1  
 T10178B-11\*2  
 T10178B-11R  
 T10178B-11R\*1  
 T10178N-11  
 T10178N-11R  
 T10178NB-11\*1  
 T10178NB-11\*2  
 T10178NB-11R  
 T10178NB-11R\*1  
 T10178NSB-11R

**Prop Diameter:** 90.5" TO 90"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** -6.5 +-0.5  
**Low Pitch Angle:** 12.0 F.I.

**Startlock Angle:** 2.5 +-0.2  
**Feather/High Angle:** 86.0 +-0.5  
**Cwt Angle:** Positive

**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type                     | Item Number    | Description                       | Quantity | Qty Per | Comments                     |
|-------------------------------|----------------|-----------------------------------|----------|---------|------------------------------|
| PROPELLER                     | B3N10738       | HC-B3TN-5M/T10178NSB-11R          | 2        | A/C     |                              |
| PROPELLER                     | B3N10830S      | HC-B3TN-5M/T10178NB-11R/3043-3    | 2        | A/C     |                              |
| BLADE                         | T10178-11      | BLADE                             | 3        | Prop    |                              |
| BLADE                         | T10178-11R     | BLADE                             | 3        | Prop    |                              |
| BLADE                         | T10178B-11*1   | IDS*ITEM, BLADE, 4E1188-5 BOOT    | 3        | Prop    |                              |
| BLADE                         | T10178B-11*2   | IDS*ITEM, BLADE, 4E1188-3 BOOT    | 3        | Prop    |                              |
| BLADE                         | T10178B-11R    | BLADE, 4E1188-5 BOOT              | 3        | Prop    |                              |
| BLADE                         | T10178B-11R*1  | IDS*ITEM, BLADE, 4E1188-3 BOOT    | 3        | Prop    |                              |
| BLADE                         | T10178N-11     | PCP:BLADE UNIT, ALUMINUM          | 3        | Prop    |                              |
| BLADE                         | T10178N-11R    | PCP:BLADE UNIT, ALUMINUM          | 3        | Prop    |                              |
| BLADE                         | T10178NB-11*1  | IDS ITEM, BLADE, 4E1188-5 BOOT    | 3        | Prop    |                              |
| BLADE                         | T10178NB-11*2  | IDS ITEM, BLADE, 4E1188-3 BOOT    | 3        | Prop    |                              |
| BLADE                         | T10178NB-11R   | BLADE UNIT, ALUMINUM, 4H1188-5    | 3        | Prop    |                              |
| BLADE                         | T10178NB-11R*1 | IDS ITEM, BLADE, 4E1188-3 BOOT    | 3        | Prop    |                              |
| BLADE                         | T10178NSB-11R  | PCP:BLADE UNIT, ALUMINUM          | 3        | Prop    |                              |
| SPINNER                       | C-3043-3P      | SPINNER ASSEMBLY                  | 1        | Prop    |                              |
| SPIN MTG KIT                  | B-3384-8H      | BOLT, 1/4-28, HEX HEAD            | 9        | Prop    |                              |
| SPIN MTG KIT                  | B-3808-4       | NUT, HEX, SELF-LOCKING            | 9        | Prop    |                              |
| SPIN MTG KIT                  | B-3851-0432    | WASHER                            | 9        | Prop    |                              |
| COUNTERWEIGHT SLUG A-3039     |                | SLUG, COUNTERWEIGHT               | 1        | Blade   |                              |
| COUNTERWEIGHT SLUG A-890-10   |                | PCP:SLUG, COUNTERWEIGHT           | 1        | Blade   |                              |
| COUNTERWEIGHT SLUG A-890-6    |                | PCP:SLUG, COUNTERWEIGHT           | 1        | Blade   |                              |
| COUNTERWEIGHT SLUG B-3384-27H |                | BOLT, 1/4-28, HEX HEAD            | 2        | Blade   |                              |
| DE-ICER                       | 4H1188-3       | DE-ICE BOOT                       | 1        | Blade   | Supersedes 7931-4E1188-3     |
| DE-ICER                       | 4H1188-5       | DE-ICE BOOT                       | 1        | Blade   | Supersedes 7931-4E1188-5     |
| DE-ICE KIT PR                 | 7931-77-190-1  | IDS ITEM - DE-ICE KIT             | 1        | Prop    | For use with 4H1188-3 de-cer |
| DE-ICE KIT PR                 | 7931-77-195-1  | DE-ICE KIT (ONE PROP)             | 1        | Prop    |                              |
| MTG BOLT/STUD                 | B-3339         | BOLT, MOUNTING, 9/16-18, 12 POINT | 8        | Prop    |                              |

|              |               |         |   |      |                          |
|--------------|---------------|---------|---|------|--------------------------|
| OVERHAUL KIT | HC-B3TN-5M-OH | O/H KIT | 1 | Prop | For aftermarket use only |
|--------------|---------------|---------|---|------|--------------------------|

# HARTZELL

## APPLICATION GUIDE

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**MITSUBISHI**

IDS No.: 645 Rev.: 3 IC Date: 01/27/2020

**Model:** MU-2B-15, -20, -30 (MU-2D,F,G)

**Modifier:**

**Trade Name:**

**Engine Model:** TPE331-1-151A

**Aircraft T.C./STC:** A2PC

**Power:** 665 HP @ 2000 RPM

**Propeller Model:** HC-B3TN-5M

**Placard/Restr:**

**Propeller T.C.:** P15EA

**Notes:** Current Production Model is HC-B3TN-5M

**Blade Model(s):** T10178-11  
T10178-11R  
T10178B-11\*1  
T10178B-11\*2  
T10178B-11R  
T10178B-11R\*1  
T10178N-11  
T10178N-11R  
T10178NB-11\*1  
T10178NB-11\*2  
T10178NB-11R  
T10178NB-11R\*1  
T10178NSB-11R

**Prop Diameter:** 90.5" TO 90"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** -6.5 +-0.5  
**Low Pitch Angle:** 12.0 F.I.

**Startlock Angle:** 2.5 +-0.2  
**Feather/High Angle:** 86.0 +-0.5  
**Cwt Angle:** Positive

**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type                     | Item Number    | Description                       | Quantity | Qty Per | Comments                      |
|-------------------------------|----------------|-----------------------------------|----------|---------|-------------------------------|
| PROPELLER                     | B3N10738       | HC-B3TN-5M/T10178NSB-11R          | 2        | A/C     |                               |
| PROPELLER                     | B3N10830S      | HC-B3TN-5M/T10178NB-11R/3043-3    | 2        | A/C     |                               |
| BLADE                         | T10178-11      | BLADE                             | 3        | Prop    |                               |
| BLADE                         | T10178-11R     | BLADE                             | 3        | Prop    |                               |
| BLADE                         | T10178B-11*1   | IDS*ITEM, BLADE, 4E1188-5 BOOT    | 3        | Prop    |                               |
| BLADE                         | T10178B-11*2   | IDS*ITEM, BLADE, 4E1188-3 BOOT    | 3        | Prop    |                               |
| BLADE                         | T10178B-11R    | BLADE, 4E1188-5 BOOT              | 3        | Prop    |                               |
| BLADE                         | T10178B-11R*1  | IDS*ITEM, BLADE, 4E1188-3 BOOT    | 3        | Prop    |                               |
| BLADE                         | T10178N-11     | PCP:BLADE UNIT, ALUMINUM          | 3        | Prop    |                               |
| BLADE                         | T10178N-11R    | PCP:BLADE UNIT, ALUMINUM          | 3        | Prop    |                               |
| BLADE                         | T10178NB-11*1  | IDS ITEM, BLADE, 4E1188-5 BOOT    | 3        | Prop    |                               |
| BLADE                         | T10178NB-11*2  | IDS ITEM, BLADE, 4E1188-3 BOOT    | 3        | Prop    |                               |
| BLADE                         | T10178NB-11R   | BLADE UNIT, ALUMINUM, 4H1188-5    | 3        | Prop    |                               |
| BLADE                         | T10178NB-11R*1 | IDS ITEM, BLADE, 4E1188-3 BOOT    | 3        | Prop    |                               |
| BLADE                         | T10178NSB-11R  | PCP:BLADE UNIT, ALUMINUM          | 3        | Prop    |                               |
| SPINNER                       | C-3043-2       | SPINNER ASSEMBLY                  | 1        | Prop    |                               |
| SPIN MTG KIT                  | B-3384-8H      | BOLT, 1/4-28, HEX HEAD            | 9        | Prop    |                               |
| SPIN MTG KIT                  | B-3808-4       | NUT, HEX, SELF-LOCKING            | 9        | Prop    |                               |
| SPIN MTG KIT                  | B-3851-0432    | WASHER                            | 9        | Prop    |                               |
| COUNTERWEIGHT SLUG A-3039     |                | SLUG, COUNTERWEIGHT               | 1        | Blade   |                               |
| COUNTERWEIGHT SLUG A-890-10   |                | PCP:SLUG, COUNTERWEIGHT           | 1        | Blade   |                               |
| COUNTERWEIGHT SLUG A-890-6    |                | PCP:SLUG, COUNTERWEIGHT           | 1        | Blade   |                               |
| COUNTERWEIGHT SLUG B-3384-27H |                | BOLT, 1/4-28, HEX HEAD            | 2        | Blade   |                               |
| DE-ICER                       | 4H1188-3       | DE-ICE BOOT                       | 1        | Blade   | Supersedes 7931-4E1188-3      |
| DE-ICER                       | 4H1188-5       | DE-ICE BOOT                       | 1        | Blade   | Supersedes 7931-4E1188-5      |
| DE-ICE KIT PR                 | 7931-77-190-1  | IDS ITEM - DE-ICE KIT             | 1        | Prop    | For use with 4H1188-3 de-icer |
| DE-ICE KIT PR                 | 7931-77-195-1  | DE-ICE KIT (ONE PROP)             | 1        | Prop    |                               |
| MTG BOLT/STUD                 | B-3339         | BOLT, MOUNTING, 9/16-18, 12 POINT | 8        | Prop    |                               |

|              |               |         |   |      |                          |
|--------------|---------------|---------|---|------|--------------------------|
| OVERHAUL KIT | HC-B3TN-5M-OH | O/H KIT | 1 | Prop | For aftermarket use only |
|--------------|---------------|---------|---|------|--------------------------|

### mitsubishi

IDS No.: 1298      Rev.: 4      IC      Date: 01/27/2020

**Model:** MU-2B-25A, -26A  
**Trade Name:**  
**Aircraft T.C./STC:** A10SW  
**Propeller Model:** HC-B4TN-5DL, -5GL, -5JL  
**Propeller T.C.:** P40EA  
**Blade Model(s):** LT10282NSB-5.3  
**Prop Diameter:** 97.7"

**Modifier:**  
**Engine Model:** TPE331-5-252M  
**Power:** 715 HP @ 1591 RPM  
**Placard/Restr:**  
**Notes:** Reference Manual 139 for Airworthiness Limitations.

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** -6.5 +-0.5  
**Low Pitch Angle:** NA  
**Stud Protrusion**

**Startlock Angle:** 2.5 +-0.1  
**Feather/High Angle:** 87.5 +-0.5  
**Cwt Angle:** Positive

#### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:**

#### Hartzell Approved Items:

| Item Type                      | Item Number     | Description                       | Quantity | Qty Per | Comments                 |
|--------------------------------|-----------------|-----------------------------------|----------|---------|--------------------------|
| BLADE                          | LT10282NSB-5.3R | PCP:BLADE UNIT, ALUM [1,1,1]      | 4        | Prop    |                          |
| SPINNER                        | C-3410-1P       | SPINNER ASSEMBLY                  | 1        | Prop    |                          |
| SPINNER                        | C-3410-3P       | IDS Item                          | 1        | Prop    |                          |
| COUNTERWEIGHT SLUG A-2038-4    |                 | SCREW, 1/4-28, CAP                | 2        | Blade   |                          |
| COUNTERWEIGHT SLUG A-3039      |                 | SLUG, COUNTERWEIGHT               | 1        | Blade   |                          |
| COUNTERWEIGHT SLUG B-3386-14H  |                 | BOLT,3/8-24,HEX HEAD              | 2        | Blade   |                          |
| COUNTERWEIGHT SLUG B-3663-1    |                 | PCP:SLUG, COUNTERWEIGHT           | 1        | Blade   |                          |
| COUNTERWEIGHT SLUG B-3834-0632 |                 | WASHER                            | 2        | Blade   |                          |
| DE-ICER                        | 4H1188-7        | DE-ICE BOOT                       | 1        | Blade   | Supersedes 7931-4E1188-7 |
| DE-ICE KIT PR                  | 7931-65-165-1   | DE-ICE KIT (ONE PROP)             | 1        | Prop    |                          |
| MTG BOLT/STUD                  | B-3339          | BOLT, MOUNTING, 9/16-18, 12 POINT | 8        | Prop    |                          |
| OVERHAUL KIT                   | 65-165-1-OH     | DE-ICE O/H KIT, 4H1188-7 BOOT     | 1        | Prop    | For aftermarket use only |

### mitsubishi

**Model:** MU-2B-25, -26, -35, -36

**Trade Name:** (MU-2K, M, J, L)

**Aircraft T.C./STC:** A10SW

**Propeller Model:** HC-B3TN-5M

**Propeller T.C.:** P15EA

**Blade Model(s):** T10178B-11\*1  
T10178B-11\*2  
T10178B-11R  
T10178B-11R\*1  
T10178NB-11\*1  
T10178NB-11\*2  
T10178NB-11R  
T10178NB-11R\*1

**Prop Diameter:** 90.5" TO 90"

**Prop Setup:**

**Ref. Radius:** 30

**Reverse Angle:** -6.5 +-0.5

**Low Pitch Angle:** 12.0 F.I.

**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**IDS No.:** 647      **Rev.:** 3      **IC Date:** 01/27/2020

**Modifier:**

**Engine Model:** TPE331-6-251M

**Power:** 665 HP @ 2000 RPM

**Placard/Restr:**

**Notes:** Engine HP rating is 715hp for MU-2B-36  
Feather 86 per A2PC, 87 per A10SW

**Startlock Angle:** 2.5 +-0.2

**Feather/High Angle:** 87.0 +-0.5

**Cwt Angle:** Positive

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type                     | Item Number    | Description                       | Quantity | Qty Per | Comments                      |
|-------------------------------|----------------|-----------------------------------|----------|---------|-------------------------------|
| PROPELLER                     | B3N10832S      | HC-B3TN-5M/T10178NB-11R/3043-3    | 2        | A/C     |                               |
| BLADE                         | T10178B-11*1   | IDS*ITEM, BLADE, 4E1188-5 BOOT    | 3        | Prop    |                               |
| BLADE                         | T10178B-11*2   | IDS*ITEM, BLADE, 4E1188-3 BOOT    | 3        | Prop    |                               |
| BLADE                         | T10178B-11R    | BLADE, 4E1188-5 BOOT              | 3        | Prop    |                               |
| BLADE                         | T10178B-11R*1  | IDS*ITEM, BLADE, 4E1188-3 BOOT    | 3        | Prop    |                               |
| BLADE                         | T10178NB-11*1  | IDS ITEM, BLADE, 4E1188-5 BOOT    | 3        | Prop    |                               |
| BLADE                         | T10178NB-11*2  | IDS ITEM, BLADE, 4E1188-3 BOOT    | 3        | Prop    |                               |
| BLADE                         | T10178NB-11R   | BLADE UNIT, ALUMINUM, 4H1188-5    | 3        | Prop    |                               |
| BLADE                         | T10178NB-11R*1 | IDS ITEM, BLADE, 4E1188-3 BOOT    | 3        | Prop    |                               |
| SPINNER                       | C-3043-3       | SPINNER ASSEMBLY                  | 1        | Prop    |                               |
| COUNTERWEIGHT SLUG A-3039     |                | SLUG, COUNTERWEIGHT               | 1        | Blade   |                               |
| COUNTERWEIGHT SLUG A-890-10   |                | PCP:SLUG, COUNTERWEIGHT           | 1        | Blade   |                               |
| COUNTERWEIGHT SLUG A-890-6    |                | PCP:SLUG, COUNTERWEIGHT           | 1        | Blade   |                               |
| COUNTERWEIGHT SLUG B-3384-27H |                | BOLT, 1/4-28, HEX HEAD            | 2        | Blade   |                               |
| DE-ICER                       | 4H1188-3       | DE-ICE BOOT                       | 1        | Blade   | Supersedes 7931-4E1188-3      |
| DE-ICER                       | 4H1188-5       | DE-ICE BOOT                       | 1        | Blade   | Supersedes 7931-4E1188-5      |
| DE-ICE KIT PR                 | 7931-77-190-1  | IDS ITEM - DE-ICE KIT             | 1        | Prop    | For use with 4H1188-3 de-icer |
| DE-ICE KIT PR                 | 7931-77-195-1  | DE-ICE KIT (ONE PROP)             | 1        | Prop    |                               |
| MTG BOLT/STUD                 | B-3339         | BOLT, MOUNTING, 9/16-18, 12 POINT | 8        | Prop    |                               |
| OVERHAUL KIT                  | HC-B3TN-5M-OH  | O/H KIT                           | 1        | Prop    | For aftermarket use only      |



# HARTZELL

## APPLICATION GUIDE

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### mitsubishi

IDS No.: 646 Rev.: 3 IC Date: 01/27/2020

**Model:** MU-2B-25, -26, -35, -36

**Trade Name:** (MU-2K, M, J, L)

**Aircraft T.C./STC:** A2PC

**Propeller Model:** HC-B3TN-5M

**Propeller T.C.:** P15EA

**Blade Model(s):** T10178B-11\*1  
T10178B-11\*2  
T10178B-11R  
T10178B-11R\*1  
T10178NB-11\*1  
T10178NB-11\*2  
T10178NB-11R  
T10178NB-11R\*1  
T10178NSB-11R

**Prop Diameter:** 90.5" TO 90"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** -6.5 +-0.5  
**Low Pitch Angle:** 12.0 F.I.  
**Stud Protrusion**

**Modifier:**

**Engine Model:** TPE331-6-251M

**Power:** 665 HP @ 2000 RPM

**Placard/Restr:**

**Notes:** Engine HP rating is 715hp for MU-2B-36  
Prop model is HC-B3TN-5 and feather 86 per A2PC; Latest hub model is HC-B3TN-5M; Current Production Model is HC-B3TN-5M

**Startlock Angle:** 2.5 +-0.2

**Feather/High Angle:** 86.0 +- 0.5

**Cwt Angle:** Positive

#### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:**

#### Hartzell Approved Items:

| Item Type                     | Item Number    | Description                       | Quantity | Qty Per | Comments                 |
|-------------------------------|----------------|-----------------------------------|----------|---------|--------------------------|
| PROPELLER                     | B3N10731S      | HC-B3TN-5M/T10178NB-11R/3043-3    | 2        | A/C     |                          |
| PROPELLER                     | B3N10738       | HC-B3TN-5M/T10178NSB-11R          | 2        | A/C     |                          |
| PROPELLER                     | B3N10830S      | HC-B3TN-5M/T10178NB-11R/3043-3    | 2        | A/C     |                          |
| BLADE                         | T10178B-11*1   | IDS*ITEM, BLADE, 4E1188-5 BOOT    | 3        | Prop    |                          |
| BLADE                         | T10178B-11*2   | IDS*ITEM, BLADE, 4E1188-3 BOOT    | 3        | Prop    |                          |
| BLADE                         | T10178B-11R    | BLADE, 4E1188-5 BOOT              | 3        | Prop    |                          |
| BLADE                         | T10178B-11R*1  | IDS*ITEM, BLADE, 4E1188-3 BOOT    | 3        | Prop    |                          |
| BLADE                         | T10178NB-11*1  | IDS ITEM, BLADE, 4E1188-5 BOOT    | 3        | Prop    |                          |
| BLADE                         | T10178NB-11*2  | IDS ITEM, BLADE, 4E1188-3 BOOT    | 3        | Prop    |                          |
| BLADE                         | T10178NB-11R   | BLADE UNIT, ALUMINUM, 4H1188-5    | 3        | Prop    |                          |
| BLADE                         | T10178NB-11R*1 | IDS ITEM, BLADE, 4E1188-3 BOOT    | 3        | Prop    |                          |
| BLADE                         | T10178NSB-11R  | PCP:BLADE UNIT, ALUMINUM          | 3        | Prop    |                          |
| SPINNER                       | C-3043-3       | SPINNER ASSEMBLY                  | 1        | Prop    |                          |
| SPIN MTG KIT                  | B-3384-8H      | BOLT, 1/4-28, HEX HEAD            | 9        | Prop    |                          |
| SPIN MTG KIT                  | B-3808-4       | NUT,HEX,SELF-LOCKING              | 9        | Prop    |                          |
| SPIN MTG KIT                  | B-3851-0432    | WASHER                            | 9        | Prop    |                          |
| COUNTERWEIGHT SLUG A-3039     |                | SLUG, COUNTERWEIGHT               | 1        | Blade   |                          |
| COUNTERWEIGHT SLUG A-890-10   |                | PCP:SLUG, COUNTERWEIGHT           | 1        | Blade   |                          |
| COUNTERWEIGHT SLUG A-890-6    |                | PCP:SLUG, COUNTERWEIGHT           | 1        | Blade   |                          |
| COUNTERWEIGHT SLUG B-3384-27H |                | BOLT, 1/4-28, HEX HEAD            | 2        | Blade   |                          |
| DE-ICER                       | 4H1188-3       | DE-ICE BOOT                       | 1        | Blade   | Supersedes 7931-4E1188-3 |
| DE-ICER                       | 4H1188-5       | DE-ICE BOOT                       | 1        | Blade   | Supersedes 7931-4E1188-5 |
| MTG BOLT/STUD                 | B-3339         | BOLT, MOUNTING, 9/16-18, 12 POINT | 8        | Prop    |                          |
| OVERHAUL KIT                  | HC-B3TN-5M-OH  | O/H KIT                           | 1        | Prop    | For aftermarket use only |

# HARTZELL

## APPLICATION GUIDE 159

**MITSUBISHI**

IDS No.: 1618      Rev.: 3      IC      Date: 01/27/2020

**Model:** MU-2B-25, 26, 35, 36

**Trade Name:**

**Aircraft T.C./STC:** STC SA09565SC

**Propeller Model:** HC-B3TN-5M

**Propeller T.C.:** P15EA

**Blade Model(s):** T10178NSB-11R

**Prop Diameter:** 90.375" TO 89.375"

**Modifier:** INTERCONTINENTAL JET, INC.

**Engine Model:** TPE331-10AV-511M

**Power:** 665 HP @ 2000 RPM

**Placard/Restr:**

**Notes:** Engine HP rating is 715hp for MU-2B-36

**Prop Setup:**

**Ref. Radius:** 30

**Reverse Angle:** -6.5 +/-0.5

**Low Pitch Angle:** 12.0 F.I.

**Stud Protrusion**

**Startlock Angle:** 2.5 +/-0.1

**Feather/High Angle:** 87.0 +/-0.5

**Cwt Angle:** Positive

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u>              | <u>Item Number</u> | <u>Description</u>                | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|-------------------------------|--------------------|-----------------------------------|-----------------|----------------|--------------------------|
| PROPELLER                     | B3N10831S          | HC-B3TN-5M/T10178NSB-11R/SPIN     | 2               | A/C            |                          |
| BLADE                         | T10178NSB-11R      | PCP:BLADE UNIT, ALUMINUM          | 3               | Prop           |                          |
| SPINNER                       | C-3043-3P          | SPINNER ASSEMBLY                  | 1               | Prop           |                          |
| COUNTERWEIGHT SLUG A-3039     |                    | SLUG, COUNTERWEIGHT               | 1               | Blade          |                          |
| COUNTERWEIGHT SLUG A-890-10   |                    | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          |                          |
| COUNTERWEIGHT SLUG A-890-6    |                    | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          |                          |
| COUNTERWEIGHT SLUG B-3384-27H |                    | BOLT, 1/4-28, HEX HEAD            | 2               | Blade          |                          |
| DE-ICER                       | 4H1188-5           | DE-ICE BOOT                       | 1               | Blade          | Supersedes 7931-4E1188-5 |
| DE-ICE KIT PR                 | 7931-77-195-1      | DE-ICE KIT (ONE PROP)             | 1               | Prop           |                          |
| MTG BOLT/STUD                 | B-3339             | BOLT, MOUNTING, 9/16-18, 12 POINT | 8               | Prop           |                          |
| OVERHAUL KIT                  | HC-B3TN-5M-OH      | O/H KIT                           | 1               | Prop           | For aftermarket use only |

# HARTZELL

## APPLICATION GUIDE 159

**mitsubishi**

IDS No.: 1915      Rev.: 4      IC      Date: 01/27/2020

**Model:** MU-2B-26A, MU-2B-40 (MU-2P)

**Trade Name:** SOLITARE

**Aircraft T.C./STC:** A10SW

**Propeller Model:** HC-B4TN-5DL, -5GL

**Propeller T.C.:** P40EA

**Blade Model(s):** LT10282NS-5.3R

LT10282NSK-5.3

**Prop Diameter:** 97.7"

**Prop Setup:**

**Ref. Radius:** 30

**Reverse Angle:** -6.5 +-0.5

**Low Pitch Angle:** 12.0 +-0.1 F.I.

**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Modifier:**

**Engine Model:** TPE331-5-252M, -10-501M, -10-511M

**Power:** 665 HP @ 1591 RPM

**Placard/Restr:**

**Notes:** 2.5 start lock for -GL. Reference Manual 139 for Airworthiness Limitations.

**Startlock Angle:** 2.5 +-0.1

**Feather/High Angle:** 88.0 +-0.7

**Cwt Angle:** Positive

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u>               | <u>Item Number</u> | <u>Description</u>                | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|--------------------------------|--------------------|-----------------------------------|-----------------|----------------|--------------------------|
| BLADE                          | LT10282NS-5.3R     | IDS Item                          | 4               | Prop           |                          |
| BLADE                          | LT10282NSK-5.3R    | IDS ITEM, BLADE, BOOT TBD         | 4               | Prop           |                          |
| SPINNER                        | C-3410-1P          | SPINNER ASSEMBLY                  | 1               | Prop           | For -5DL                 |
| SPINNER                        | C-3410-3P          | IDS Item                          | 1               | Prop           | For -5GL                 |
| COUNTERWEIGHT SLUG A-2038-4    |                    | SCREW, 1/4-28, CAP                | 2               | Blade          |                          |
| COUNTERWEIGHT SLUG A-3039      |                    | SLUG, COUNTERWEIGHT               | 1               | Blade          |                          |
| COUNTERWEIGHT SLUG B-3386-14H  |                    | BOLT, 3/8-24, HEX HEAD            | 2               | Blade          |                          |
| COUNTERWEIGHT SLUG B-3663-2    |                    | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          |                          |
| COUNTERWEIGHT SLUG B-3834-0632 |                    | WASHER                            | 2               | Blade          |                          |
| DE-ICE KIT PR                  | 7931-65-165-1      | DE-ICE KIT (ONE PROP)             | 1               | Prop           |                          |
| MTG BOLT/STUD                  | B-3339             | BOLT, MOUNTING, 9/16-18, 12 POINT | 8               | Prop           |                          |
| OVERHAUL KIT                   | 65-165-1-OH        | DE-ICE O/H KIT, 4H1188-7 BOOT     | 1               | Prop           | For aftermarket use only |

# HARTZELL

## APPLICATION GUIDE

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**MITSUBISHI**

IDS No.: 648      Rev.: 5      IC      Date: 01/27/2020

**Model:** MU-2B-26A, MU-2B-40 (MU-2P)

**Trade Name:** SOLITARE

**Aircraft T.C./STC:** A10SW

**Propeller Model:** HC-B4TN-5JL

**Propeller T.C.:** P40EA

**Blade Model(s):** LT10282NSB-5.3

LT10282NSB53R

**Prop Diameter:** 97.7"

**Prop Setup:**

**Ref. Radius:** 30

**Reverse Angle:** -6.5 +-0.5

**Low Pitch Angle:** 12.0 +-0.1 F.I.

**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Modifier:**

**Engine Model:** TPE331-5-252M, -10-501M, -10-511M

**Power:** 665 HP @ 1591 RPM

**Placard/Restr:**

**Notes:** Reference Manual 139 for Airworthiness Limitations.

**Startlock Angle:** 2.5 +-0.1

**Feather/High Angle:** 88.0 +-0.7

**Cwt Angle:** Positive

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u>               | <u>Item Number</u> | <u>Description</u>                | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|--------------------------------|--------------------|-----------------------------------|-----------------|----------------|--------------------------|
| PROPELLER                      | B4N10811           | HC-B4TN-5JL/LT10282NSB-5.3R       | 2               | A/C            |                          |
| PROPELLER                      | B4N10812           | HC-B4TN-5JL/LT10282NSB53R[*1]     | 2               | A/C            |                          |
| BLADE                          | LT10282NSB-5.3R    | PCP:BLADE UNIT, ALUM [1,1,1]      | 4               | Prop           |                          |
| BLADE                          | LT10282NSB53R*1    | PCP:BLADE UNIT, ALUM [3,1,1]      | 4               | Prop           |                          |
| SPINNER                        | C-3410-3P          | IDS Item                          | 1               | Prop           |                          |
| COUNTERWEIGHT SLUG A-2038-4    |                    | SCREW, 1/4-28, CAP                | 2               | Blade          |                          |
| COUNTERWEIGHT SLUG A-3039      |                    | SLUG, COUNTERWEIGHT               | 1               | Blade          |                          |
| COUNTERWEIGHT SLUG B-3386-14H  |                    | BOLT,3/8-24,HEX HEAD              | 2               | Blade          |                          |
| COUNTERWEIGHT SLUG B-3663-2    |                    | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          |                          |
| COUNTERWEIGHT SLUG B-3834-0632 |                    | WASHER                            | 2               | Blade          |                          |
| DE-ICER                        | 4H1188-7           | DE-ICE BOOT                       | 1               | Blade          | Supersedes 7931-4E1188-7 |
| DE-ICE KIT PR                  | 7931-65-165-1      | DE-ICE KIT (ONE PROP)             | 1               | Prop           |                          |
| MTG BOLT/STUD                  | B-3339             | BOLT, MOUNTING, 9/16-18, 12 POINT | 8               | Prop           |                          |
| OVERHAUL KIT                   | 65-165-1-OH        | DE-ICE O/H KIT, 4H1188-7 BOOT     | 1               | Prop           | For aftermarket use only |
| OVERHAUL KIT                   | HC-B4TN-5(J,M)L    | O/H KIT                           | 1               | Prop           | For aftermarket use only |

# HARTZELL

## APPLICATION GUIDE

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MITSUBISHI

**Model:** MU-2B-30  
**Trade Name:**  
**Aircraft T.C./STC:** STC-SA336GL-D  
**Propeller Model:** HC-B4TN-5DL, -5GL, -5JL  
**Propeller T.C.:** P40EA  
**Blade Model(s):** LT10282NSB-5.3  
**Prop Diameter:** 97.7"

**IDS No.:** 650      **Rev.:** 4      **IC Date:** 01/27/2020

**Modifier:** AIRESEARCH AVIATION

**Engine Model:** TPE331-5-252M

**Power:** 665 HP @ 1591 RPM

**Placard/Restr:**

**Notes:** Reference Manual 139 for Airworthiness Limitations.

### Prop Setup:

**Ref. Radius:** 30

**Reverse Angle:** -6.5 +/-0.5

**Low Pitch Angle:** NA

**Stud Protrusion**

**Startlock Angle:** 2.5 +/-0.1

**Feather/High Angle:** 87.5 +/-0.5

**Cwt Angle:** Positive

### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u>               | <u>Item Number</u> | <u>Description</u>                | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|--------------------------------|--------------------|-----------------------------------|-----------------|----------------|--------------------------|
| BLADE                          | LT10282NSB-5.3R    | PCP:BLADE UNIT, ALUM [1,1,1]      | 4               | Prop           |                          |
| SPINNER                        | C-3410-1P          | SPINNER ASSEMBLY                  | 1               | Prop           |                          |
| SPINNER                        | C-3410-3P          | IDS Item                          | 1               | Prop           |                          |
| COUNTERWEIGHT SLUG A-2038-4    |                    | SCREW, 1/4-28, CAP                | 2               | Blade          |                          |
| COUNTERWEIGHT SLUG A-3039      |                    | SLUG, COUNTERWEIGHT               | 1               | Blade          |                          |
| COUNTERWEIGHT SLUG B-3386-14H  |                    | BOLT,3/8-24,HEX HEAD              | 2               | Blade          |                          |
| COUNTERWEIGHT SLUG B-3663-1    |                    | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          |                          |
| COUNTERWEIGHT SLUG B-3834-0632 |                    | WASHER                            | 2               | Blade          |                          |
| DE-ICER                        | 4H1188-7           | DE-ICE BOOT                       | 1               | Blade          | Supersedes 7931-4E1188-7 |
| DE-ICE KIT PR                  | 7931-65-165-1      | DE-ICE KIT (ONE PROP)             | 1               | Prop           |                          |
| MTG BOLT/STUD                  | B-3339             | BOLT, MOUNTING, 9/16-18, 12 POINT | 8               | Prop           |                          |
| OVERHAUL KIT                   | 65-165-1-OH        | DE-ICE O/H KIT, 4H1188-7 BOOT     | 1               | Prop           | For aftermarket use only |
| OVERHAUL KIT                   | HC-B4TN-5GL-OH     | O/H KIT                           | 1               | Prop           | For aftermarket use only |

# HARTZELL

## APPLICATION GUIDE 159

**MITSUBISHI**

IDS No.: 1300      Rev.: 4      IC      Date: 01/27/2020

**Model:** MU-2B-35A, -36A  
**Trade Name:**  
**Aircraft T.C./STC:** A10SW  
**Propeller Model:** HC-B4TN-5DL, -5GL, -5JL  
**Propeller T.C.:** P40EA  
**Blade Model(s):** LT10282NSB-5.3  
**Prop Diameter:** 97.7"

**Modifier:**  
**Engine Model:** TPE331-5-252  
**Power:** 715 HP @ 1591 RPM  
**Placard/Restr:**  
**Notes:** Reference Manual 139 for Airworthiness Limitations.

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** -6.5 +-0.5  
**Low Pitch Angle:** NA  
**Stud Protrusion**

**Startlock Angle:** 2.5 +-0.1  
**Feather/High Angle:** 87.5 +-0.5  
**Cwt Angle:** Positive

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u>               | <u>Item Number</u> | <u>Description</u>                | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|--------------------------------|--------------------|-----------------------------------|-----------------|----------------|--------------------------|
| BLADE                          | LT10282NSB-5.3R    | PCP:BLADE UNIT, ALUM [1,1,1]      | 4               | Prop           |                          |
| SPINNER                        | C-3410-1P          | SPINNER ASSEMBLY                  | 1               | Prop           |                          |
| SPINNER                        | C-3410-3P          | IDS Item                          | 1               | Prop           |                          |
| COUNTERWEIGHT SLUG A-2038-4    |                    | SCREW, 1/4-28, CAP                | 2               | Blade          |                          |
| COUNTERWEIGHT SLUG A-3039      |                    | SLUG, COUNTERWEIGHT               | 1               | Blade          |                          |
| COUNTERWEIGHT SLUG B-3386-14H  |                    | BOLT,3/8-24,HEX HEAD              | 2               | Blade          |                          |
| COUNTERWEIGHT SLUG B-3663-1    |                    | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          |                          |
| COUNTERWEIGHT SLUG B-3834-0632 |                    | WASHER                            | 2               | Blade          |                          |
| DE-ICER                        | 4H1188-7           | DE-ICE BOOT                       | 1               | Blade          | Supersedes 7931-4E1188-7 |
| DE-ICE KIT PR                  | 7931-65-165-1      | DE-ICE KIT (ONE PROP)             | 1               | Prop           |                          |
| MTG BOLT/STUD                  | B-3339             | BOLT, MOUNTING, 9/16-18, 12 POINT | 8               | Prop           |                          |
| OVERHAUL KIT                   | 65-165-1-OH        | DE-ICE O/H KIT, 4H1188-7 BOOT     | 1               | Prop           | For aftermarket use only |

# HARTZELL

## APPLICATION GUIDE

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**mitsubishi**

IDS No.: 649 Rev.: 6 IC Date: 01/27/2020

**Model:** MU-2B-36A, MU-2B-60 (MU-2N)  
**Trade Name:** MARQUISE  
**Aircraft T.C./STC:** A10SW  
**Propeller Model:** HC-B4TN-5DL, -5GL, -5JL  
**Propeller T.C.:** P40EA  
**Blade Model(s):** LT10282NS-5.3R  
 LT10282NSB-5.3  
 LT10282NSB53R  
 LT10282NSK-5.3

**Modifier:**  
**Engine Model:** TPE331-5-252M, -10-501M, -10-511M  
**Power:** 715 HP @ 1591 RPM  
**Placard/Restr:**

**Notes:** 2.5 start lock for -GL,-JL. Reference Manual 139 for Airworthiness Limitations.

**Prop Diameter:** 97.7"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** -6.5 +-0.5  
**Low Pitch Angle:** 12.0 +-0.1 F.I.  
**Stud Protrusion**

**Startlock Angle:** 2.5 +-0.1  
**Feather/High Angle:** 88.0 +-0.7  
**Cwt Angle:** Positive

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type                      | Item Number     | Description                       | Quantity | Qty Per | Comments                 |
|--------------------------------|-----------------|-----------------------------------|----------|---------|--------------------------|
| PROPELLER                      | B4N10811        | HC-B4TN-5JL/LT10282NSB-5.3R       | 2        | A/C     |                          |
| PROPELLER                      | B4N10812        | HC-B4TN-5JL/LT10282NSB53R[*1]     | 2        | A/C     |                          |
| BLADE                          | LT10282NS-5.3R  | IDS Item                          | 4        | Prop    |                          |
| BLADE                          | LT10282NSB-5.3R | PCP:BLADE UNIT, ALUM [1,1,1]      | 4        | Prop    |                          |
| BLADE                          | LT10282NSB53R*1 | PCP:BLADE UNIT, ALUM [3,1,1]      | 4        | Prop    |                          |
| BLADE                          | LT10282NSK-5.3R | IDS ITEM, BLADE, BOOT TBD         | 4        | Prop    |                          |
| SPINNER                        | C-3410-1P       | SPINNER ASSEMBLY                  | 1        | Prop    | For -5DL                 |
| SPINNER                        | C-3410-3P       | IDS Item                          | 1        | Prop    | For -5GL,JL              |
| COUNTERWEIGHT SLUG A-2038-4    |                 | SCREW, 1/4-28, CAP                | 2        | Blade   |                          |
| COUNTERWEIGHT SLUG A-3039      |                 | SLUG, COUNTERWEIGHT               | 1        | Blade   |                          |
| COUNTERWEIGHT SLUG B-3386-14H  |                 | BOLT,3/8-24,HEX HEAD              | 2        | Blade   |                          |
| COUNTERWEIGHT SLUG B-3663-2    |                 | PCP:SLUG, COUNTERWEIGHT           | 1        | Blade   |                          |
| COUNTERWEIGHT SLUG B-3834-0632 |                 | WASHER                            | 2        | Blade   |                          |
| DE-ICER                        | 4H1188-7        | DE-ICE BOOT                       | 1        | Blade   | Supersedes 7931-4E1188-7 |
| DE-ICE KIT PR                  | 7931-65-165-1   | DE-ICE KIT (ONE PROP)             | 1        | Prop    |                          |
| MTG BOLT/STUD                  | B-3339          | BOLT, MOUNTING, 9/16-18, 12 POINT | 8        | Prop    |                          |
| OVERHAUL KIT                   | 65-165-1-OH     | DE-ICE O/H KIT, 4H1188-7 BOOT     | 1        | Prop    | For aftermarket use only |
| OVERHAUL KIT                   | HC-B4TN-5(J,M)L | O/H KIT                           | 1        | Prop    | For aftermarket use only |
| OVERHAUL KIT                   | HC-B4TN-5GL-OH  | O/H KIT                           | 1        | Prop    | For aftermarket use only |

# HARTZELL

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### mitsubishi

**Model:** MU-2B-40, -60  
**Trade Name:**  
**Aircraft T.C./STC:** A10SW  
**Propeller Model:** HC-B4TN-5DL, -5GL, -5JL  
**Propeller T.C.:** P40EA  
**Blade Model(s):** LT10282NSB-5.3  
**Prop Diameter:** 97.7"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** -6.5 +-0.5  
**Low Pitch Angle:** NA  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

#### Hartzell Approved Items:

| Item Type                      | Item Number     | Description                       | Quantity | Qty Per | Comments                 |
|--------------------------------|-----------------|-----------------------------------|----------|---------|--------------------------|
| BLADE                          | LT10282NSB-5.3R | PCP:BLADE UNIT, ALUM [1,1,1]      | 4        | Prop    |                          |
| SPINNER                        | C-3410-1P       | SPINNER ASSEMBLY                  | 1        | Prop    |                          |
| SPINNER                        | C-3410-3P       | IDS Item                          | 1        | Prop    |                          |
| COUNTERWEIGHT SLUG A-2038-4    |                 | SCREW, 1/4-28, CAP                | 2        | Blade   |                          |
| COUNTERWEIGHT SLUG A-3039      |                 | SLUG, COUNTERWEIGHT               | 1        | Blade   |                          |
| COUNTERWEIGHT SLUG B-3386-14H  |                 | BOLT, 3/8-24, HEX HEAD            | 2        | Blade   |                          |
| COUNTERWEIGHT SLUG B-3663-1    |                 | PCP:SLUG, COUNTERWEIGHT           | 1        | Blade   |                          |
| COUNTERWEIGHT SLUG B-3834-0632 |                 | WASHER                            | 2        | Blade   |                          |
| DE-ICER                        | 4H1188-7        | DE-ICE BOOT                       | 1        | Blade   | Supersedes 7931-4E1188-7 |
| DE-ICE KIT PR                  | 7931-65-165-1   | DE-ICE KIT (ONE PROP)             | 1        | Prop    |                          |
| MTG BOLT/STUD                  | B-3339          | BOLT, MOUNTING, 9/16-18, 12 POINT | 8        | Prop    |                          |
| OVERHAUL KIT                   | 65-165-1-OH     | DE-ICE O/H KIT, 4H1188-7 BOOT     | 1        | Prop    | For aftermarket use only |

**IDS No.:** 1299 **Rev.:** 4 **IC Date:** 01/27/2020

**Modifier:**

**Engine Model:** TPE331-10

**Power:** 715 HP @ 1591 RPM

**Placard/Restr:**

**Notes:** Reference Manual 139 for Airworthiness Limitations.

**Startlock Angle:** 2.5 +-0.1

**Feather/High Angle:** 87.8 +-0.5

**Cwt Angle:** Positive

**Non-HPI Governor:**

### MONOCOUPÉ

**Model:** 90AL-115  
**Trade Name:**  
**Aircraft T.C./STC:** STC-SA1017CE  
**Propeller Model:** HC-C2YL-4F  
**Propeller T.C.:**  
**Blade Model(s):** FC7663  
**Prop Diameter:** 76"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:**  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

#### Hartzell Approved Items:

| Item Type     | Item Number | Description                      | Quantity | Qty Per | Comments        |
|---------------|-------------|----------------------------------|----------|---------|-----------------|
| BLADE         | FC7663      | PCP:BLADE UNIT, ALUMINUM         | 2        | Prop    |                 |
| COUNTERWEIGHT | B-3202H-7   | PCP:COUNTERWEIGHT                | 1        | Blade   | Blade Component |
| MTG BOLT/STUD | A-2247-1    | STUD, MOUNTING, 7/16-20, DRILLED | 6        | Prop    |                 |

**IDS No.:** 651 **Rev.:** - **DM Date:** 10/01/1992

**Modifier:** MURLIN SMITH

**Engine Model:** IO-320-E1A

**Power:** 160 HP @ 2700 RPM

**Placard/Restr:**

**Notes:**

**Startlock Angle:**

**Feather/High Angle:**

**Cwt Angle:**

**Non-HPI Governor:**



# HARTZELL

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MOONEY

IDS No.: 2744 Rev.: 3 IC Date: 06/12/2018

**Model:** M20TN, M20V  
**Trade Name:** ACCLAIM  
**Aircraft T.C./STC:** 2A3  
**Propeller Model:** PHC-J3YF-1RF  
**Propeller T.C.:** P36EA  
**Blade Model(s):** F7498  
 F7498\*1  
**Prop Diameter:** 76 to 74

**Modifier:**  
**Engine Model:** TSIO-550-G  
**Power:** 280 HP @ 2500 RPM  
**Placard/Restr:**  
**Notes:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** 17.0 +-0.2  
**Stud Protrusion** 1.450 +-0.030

**Startlock Angle:**  
**Feather/High Angle:** 38.0 +-1.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type     | Item Number     | Description                   | Quantity | Qty Per | Comments                 |
|---------------|-----------------|-------------------------------|----------|---------|--------------------------|
| PROPELLER     | J3F07505        | PHC-J3YF-1RF/F7498/SM40       | 1        | A/C     |                          |
| PROPELLER     | J3F07505KD      | PHC-J3YF-1RF/F7498/SM40       | 1        | A/C     |                          |
| PROPELLER     | J3F07506        | PHC-J3YF-1RF/F7498[*1]/SM40   | 0        |         |                          |
| PROPELLER     | J3F07506KD      | PHC-J3YF-1RF/F7498[*1]/SM40   | 1        | A/C     |                          |
| BLADE         | F7498           | PCP:BLADE UNIT, ALUM [6,1,1]  | 3        | Prop    |                          |
| BLADE         | F7498*1         | PCP:BLADE UNIT, ALUM [6,1,11] | 3        | Prop    |                          |
| SPINNER       | A-2295-10       | SPINNER ASSEMBLY              | 1        | A/C     |                          |
| SPINNER       | A-2295-10P      | SPINNER ASSEMBLY              | 1        | A/C     |                          |
| GOVERNOR      | S-1-3           | GOVERNOR ASSEMBLY, S-1-3      | 1        | A/C     |                          |
| SPIN MTG KIT  | A-2476-40       | SPINNER - MTG KIT             | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2429-4        | STUD, MOUNTING, 1/2-20        | 6        | Prop    |                          |
| OVERHAUL KIT  | PHC-J3YF-1RF-OH | O/H KIT                       | 1        | Prop    | For aftermarket use only |

# HARTZELL

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**MOONEY**

**Model:** M20  
**Trade Name:**  
**Aircraft T.C./STC:** 2A3  
**Propeller Model:** HC-A2VL-1  
**Propeller T.C.:** P24EA  
**Blade Model(s):** V7636  
V7636N  
**Prop Diameter:** 76.2" TO 72"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 10.5 +/-0.2  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number | Description           | Quantity | Qty Per | Comments |
|---------------|-------------|-----------------------|----------|---------|----------|
| BLADE         | V7636       | IDS ITEM              | 2        | Prop    |          |
| BLADE         | V7636N      | BLADE                 | 2        | Prop    |          |
| SPINNER       | 835-30P     | SPINNER ASSEMBLY      | 1        | Prop    |          |
| MTG BOLT/STUD | B-322       | BOLT,7/16-20,HEX HEAD | 6        | Prop    |          |

**IDS No.:** 2317      **Rev.:** -      **DM Date:** 11/23/2003

**Modifier:**  
**Engine Model:** O-320  
**Power:** 150 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 25.0 +/-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:** HAMILTON, WOODWARD

**MOONEY**

**Model:** M20  
**Trade Name:**  
**Aircraft T.C./STC:** 2A3  
**Propeller Model:** HC-82XL-1B, HC-82XL-1, HC-A2XL-1  
**Propeller T.C.:** P24EA  
**Blade Model(s):** 7636D  
**Prop Diameter:** 76.2" TO 72"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 10.5 +/-0.2  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number | Description           | Quantity | Qty Per | Comments |
|---------------|-------------|-----------------------|----------|---------|----------|
| BLADE         | 7636D       | BLADE                 | 2        | Prop    |          |
| SPINNER       | 835-30P     | SPINNER ASSEMBLY      | 1        | Prop    |          |
| MTG BOLT/STUD | B-322       | BOLT,7/16-20,HEX HEAD | 6        | Prop    |          |

**IDS No.:** 2204      **Rev.:** -      **BC Date:** 04/10/2014

**Modifier:**  
**Engine Model:** O-320  
**Power:** 150 HP @ 2700 RPM  
**Placard/Restr:**

**Notes:**  
**Startlock Angle:** NA  
**Feather/High Angle:** 25.0 +/-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:** HAMILTON, WOODWARD

# HARTZELL

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MOONEY

**Model:** M20  
**Trade Name:**  
**Aircraft T.C./STC:** 2A3  
**Propeller Model:** HC-A2MVL-1  
**Propeller T.C.:** P24EA  
**Blade Model(s):** MV7636N  
**Prop Diameter:** 76.2" TO 72"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 10.5 +-0.2  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 652      **Rev.:** 2      **IC Date:** 07/06/2015

**Modifier:**  
**Engine Model:** O-320  
**Power:** 150 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 25.0 +-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:** HAMILTON, WOODWARD

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>           | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|------------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | A22L1001           | HC-A2MVL-1/MV7636N           | 1               | A/C            |                          |
| BLADE            | MV7636N            | PCP:BLADE UNIT, ALUM [1,1,1] | 2               | Prop           |                          |
| SPINNER          | 835-30P            | SPINNER ASSEMBLY             | 1               | Prop           |                          |
| MTG BOLT/STUD    | B-322              | BOLT,7/16-20,HEX HEAD        | 6               | Prop           |                          |
| OVERHAUL KIT     | HC-A2MVL-1-OH      | O/H KIT                      | 1               | Prop           | For aftermarket use only |

MOONEY

**Model:** M20  
**Trade Name:**  
**Aircraft T.C./STC:** STC-SA320GL  
**Propeller Model:** HC-C2YK-1BF  
**Propeller T.C.:** P-920  
**Blade Model(s):** F7666A-4Q  
**Prop Diameter:** 72"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 14.1 +-0.1  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 660      **Rev.:** -      **DM Date:** 10/01/1992

**Modifier:** JET ENTERPRISES  
**Engine Model:** IO-360-A1A  
**Power:** 200 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 30.3 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>       | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|--------------------------|-----------------|----------------|-----------------|
| BLADE            | F7666A-4Q          | PCP:BLADE UNIT, ALUMINUM | 2               | Prop           |                 |
| SPINNER          | 835-20             | IDS Item                 | 1               | Prop           |                 |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20   | 6               | Prop           |                 |

# HARTZELL

## APPLICATION GUIDE

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MOONEY

IDS No.: 3146 Rev.: 1 IC Date: 07/16/2015

**Model:** M20TN  
**Trade Name:** ACCLAIM  
**Aircraft T.C./STC:** SA02482CH  
**Propeller Model:** PHC-J3YF-1N  
**Propeller T.C.:** P36EA

**Modifier:** MidWest Modifications LLC  
**Engine Model:** TSIO-550-G-AP  
**Power:** 310 HP @ 2700 RPM  
**Placard/Restr:** Manifold Pressure limited to 34". Do not operate above 30.5" below 2500 RPM.

**Blade Model(s):** N7605C-2  
 N7605CB-2  
**Prop Diameter:** 76"

**Notes:** Refer to Service Letter HC-SL-61-265 for special instructions applicable to certain hub part numbers when TKS anti-ice is installed.

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** 13.0+-0.2  
**Stud Protrusion:** 1.450 +-0.030

**Startlock Angle:**  
**Feather/High Angle:** 38.0 +-1.0  
**Cwt Angle:**

### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>             | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>              |
|------------------|--------------------|--------------------------------|-----------------|----------------|------------------------------|
| PROPELLER        | J3F80800           | PHC-J3YF-1N/N7605C-2/SM40      | 1               | A/C            |                              |
| PROPELLER        | J3F81000           | PHC-J3YF-1N/N7605CB-2/SM40     | 1               | A/C            |                              |
| BLADE            | N7605C-2           | PCP:BLADE ASSY, COMPOSITE      | 3               | Prop           |                              |
| BLADE            | N7605CB-2          | PCP:BLADE ASSY, COMPOSITE      | 3               | Prop           |                              |
| SPINNER          | A-2295-10          | SPINNER ASSEMBLY               | 1               | Prop           |                              |
| SPINNER          | A-2295-10P         | SPINNER ASSEMBLY               | 1               | Prop           |                              |
| SPIN MTG KIT     | A-2476-40          | SPINNER - MTG KIT              | 1               | Prop           |                              |
| DE-ICER          | C-2131-9           | BOOT, ANTI-ICING               | 1               | Blade          | Incl. in N7605CB-2 Blade BOM |
| MTG BOLT/STUD    | A-2429-4           | STUD, MOUNTING, 1/2-20         | 6               | Prop           |                              |
| MISC ACCES       | A-6741-158         | EROSION TAPE, 2" WIDE, 108' RL | 0               | Blade          | Included in blade BOM (12")  |
| OVERHAUL KIT     | PHC-J3YF-1N-OH     | O/H KIT                        | 1               | Prop           | For aftermarket use only     |

# HARTZELL

## APPLICATION GUIDE

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MOONEY

IDS No.: 2769 Rev.: 1 IC Date: 07/16/2015

**Model:** M20TN  
**Trade Name:** ACCLAIM  
**Aircraft T.C./STC:** SA02482CH  
**Propeller Model:** PHC-J3YF-1N  
**Propeller T.C.:** P36EA

**Modifier:** MidWest Modifications LLC  
**Engine Model:** TSIO-550-G-AP  
**Power:** 310 HP @ 2700 RPM  
**Placard/Restr:** Manifold Pressure limited to 34". Do not operate above 30.5" below 2500 RPM.

**Blade Model(s):** N7605-2  
 N7605B-2  
**Prop Diameter:** 76

**Notes:** Refer to Service Letter HC-SL-61-265 for special instructions applicable to certain hub part numbers when TKS anti-ice is installed.

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** 13.0 +-0.2  
**Stud Protrusion:** 1.450 +-0.030

**Startlock Angle:**  
**Feather/High Angle:** 38.0 +-1.0  
**Cwt Angle:**

### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>             | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>             |
|------------------|--------------------|--------------------------------|-----------------|----------------|-----------------------------|
| PROPELLER        | J3F20800           | PHC-J3YF-1N/N7605-2/SM40       | 0               |                |                             |
| PROPELLER        | J3F21000           | PHC-J3YF-1N/N7605B-2/SM40      | 0               |                |                             |
| BLADE            | N7605-2            | PCP:BLADE ASSY, COMPOSITE      | 3               | Prop           |                             |
| BLADE            | N7605B-2           | PCP:BLADE ASSY, COMPOSITE      | 3               | Prop           |                             |
| SPINNER          | A-2295-10          | SPINNER ASSEMBLY               | 1               | A/C            |                             |
| SPINNER          | A-2295-10P         | SPINNER ASSEMBLY               | 1               | A/C            |                             |
| SPIN MTG KIT     | A-2476-40          | SPINNER - MTG KIT              | 1               | Prop           |                             |
| DE-ICER          | C-2131-9           | BOOT, ANTI-ICING               | 1               | Blade          |                             |
| MTG BOLT/STUD    | A-2429-4           | STUD, MOUNTING, 1/2-20         | 6               | Prop           |                             |
| MISC ACCES       | A-6741-158         | EROSION TAPE, 2" WIDE, 108' RL | 0               | Blade          | Included in blade BOM (12") |
| OVERHAUL KIT     | PHC-J3YF-1N-OH     | O/H KIT                        | 1               | Prop           | For aftermarket use only    |

# HARTZELL

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**MOONEY**

IDS No.: 2922      Rev.: 1      IC      Date: 07/07/2015

**Model:** M20E, M20F  
**Trade Name:**  
**Aircraft T.C./STC:** SA09695AC  
**Propeller Model:** HC-C2YR-1BFP  
**Propeller T.C.:** P-920  
**Blade Model(s):** F7497  
**Prop Diameter:** 74" to 72.5"

**Modifier:** Alamo Aerospace  
**Engine Model:** IO-390-A3A6  
**Power:** 210 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** 15.7 +/- 0.2  
**Stud Protrusion**

**Startlock Angle:**  
**Feather/High Angle:** 29.0 +/- 1.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>            | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|-------------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | C2R10711           | HC-C2YR-1BFP/F7497            | 1               | A/C            |                          |
| BLADE            | F7497              | PCP:BLADE UNIT, ALUM [6,1,11] | 2               | Prop           |                          |
| SPINNER          | 835-20             | IDS Item                      | 1               | Prop           |                          |
| SPINNER          | 835-33             | SPINNER ASSEMBLY              | 1               | Prop           |                          |
| SPINNER          | 835-54             | SPINNER ASSEMBLY, "CNC"       | 1               | Prop           |                          |
| SPINNER          | A-835-33P          | SPINNER ASSEMBLY              | 1               | Prop           |                          |
| SPINNER          | A-835-54P          | SPINNER ASSEMBLY              | 1               | Prop           |                          |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20        | 6               | Prop           |                          |
| OVERHAUL KIT     | HC-C2YR-1BF-OH     | O/H KIT                       | 1               | Prop           | For aftermarket use only |

# HARTZELL

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**MOONEY**

**Model:** M20E, F, J  
**Trade Name:**  
**Aircraft T.C./STC:** SA09695AC  
**Propeller Model:** HC-C3YR-1RF  
**Propeller T.C.:** P25EA

**Blade Model(s):** F7282  
**Prop Diameter:** 74" to 73"

**IDS No.:** 2898      **Rev.:** 1      **IC Date:** 07/16/2015  
**Modifier:** Alamo Aerospace  
**Engine Model:** IO-390-A3A6  
**Power:** 210 HP @ 2700 RPM  
**Placard/Restr:** Avoid continuous operation below 15 inches manifold pressure between 1950 and 2350 RPM.  
**Notes:** Prop model for M20E,F and 835-47(P) spinner only. No mounting kit.  
 Use A-2476-7 Spinner Mounting Kit with A-2295-4(P) Spinner only.

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** 13.7 +/-0.1  
**Stud Protrusion**

**Startlock Angle:**  
**Feather/High Angle:** 30.0+/- 0.5  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>       | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|--------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | C3R00922           | HC-C3YR-1RF/F7282        | 1               | A/C            | Prop for M20E,F          |
| PROPELLER        | C3R00923           | HC-C3YR-1RF/F7282/SM7    | 1               | A/C            | Prop for M20J            |
| BLADE            | F7282              | PCP:BLADE UNIT, ALUMINUM | 3               | Prop           |                          |
| SPINNER          | 835-47             | SPINNER ASSEMBLY         | 1               | Prop           | Spinner for M20E,F only  |
| SPINNER          | 835-47P            | SPINNER ASSEMBLY         | 1               | Prop           | Spinner for M20E,F only  |
| SPINNER          | A-2295-4           | SPINNER ASSEMBLY         | 1               | Prop           | Spinner for M20J only    |
| SPINNER          | A-2295-4P          | SPINNER ASSEMBLY         | 1               | Prop           | Spinner for M20J only    |
| SPIN MTG KIT     | A-2476-7           | SPINNER - MTG KIT        | 1               | Prop           | For M20J (See Notes)     |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20   | 6               | Prop           |                          |
| OVERHAUL KIT     | HC-C3YR-1RF-OH     | O/H KIT                  | 1               | Prop           | For aftermarket use only |

# HARTZELL

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MOONEY

**Model:** M20S  
**Trade Name:** EAGLE  
**Aircraft T.C./STC:** SA02988AT  
**Propeller Model:** PHC-J3YF-1RF  
**Propeller T.C.:** P36EA  
**Blade Model(s):** F7693DF-2\*1  
**Prop Diameter:** 78

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 16.5 +-0.2  
**Stud Protrusion:** 1.450 +-0.030

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 2527      **Rev.:** 1      **IC Date:** 07/16/2015

**Modifier:** PowerLite LLC  
**Engine Model:** IO-550-G  
**Power:** 280 HP @ 2500 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 38.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>             | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|--------------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | J3F00056           | PHC-J3YF-1RF/F7693DF-2[*1]/S40 | 1               | A/C            |                          |
| BLADE            | F7693DF-2*1        | PCP:BLADE UNIT, ALUM [6,1,1]   | 3               | Prop           |                          |
| SPINNER          | A-2295-10P         | SPINNER ASSEMBLY               | 1               | A/C            |                          |
| SPIN MTG KIT     | A-2476-40          | SPINNER - MTG KIT              | 1               | Prop           |                          |
| MTG BOLT/STUD    | A-2429-4           | STUD, MOUNTING, 1/2-20         | 6               | Prop           |                          |
| OVERHAUL KIT     | PHC-J3YF-1RF-OH    | O/H KIT                        | 1               | Prop           | For aftermarket use only |

MOONEY

**Model:** M20A  
**Trade Name:**  
**Aircraft T.C./STC:** 2A3  
**Propeller Model:** HC-92ZK-8D  
**Propeller T.C.:** P892  
**Blade Model(s):** 8447-12A  
8447N-12A  
**Prop Diameter:** 71.6" TO 70"

### Prop Setup:

**Ref. Radius:** 27  
**Reverse Angle:** NA  
**Low Pitch Angle:** 15.4 +-0.2  
**Stud Protrusion:**

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 653      **Rev.:** -      **DM Date:** 09/10/2004

**Modifier:**  
**Engine Model:** O-360-A1A, -A1D  
**Power:** 180 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 30.1 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:** WOODWARD

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>               | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>         |
|------------------|--------------------|----------------------------------|-----------------|----------------|-------------------------|
| BLADE            | 8447-12A           | BLADE UNIT, ALUMINUM             | 2               | Prop           |                         |
| BLADE            | 8447N-12A          | PCP:BLADE UNIT, ALUMINUM         | 2               | Prop           |                         |
| SPINNER          | 835-30P            | SPINNER ASSEMBLY                 | 1               | Prop           |                         |
| SPINNER          | 835-6              | IDS Item                         | 1               | Prop           | Superseded, use 835-30P |
| MTG BOLT/STUD    | A-1333             | BOLT, MOUNTING, 1/2-20, HEX HEAD | 4               | Prop           |                         |
| MTG BOLT/STUD    | A-1333-2           | IDS Item                         | 2               | Prop           |                         |



# HARTZELL

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MOONEY

**Model:** M20A, B, C, D, G

**Trade Name:**

**Aircraft T.C./STC:** 2A3

**Propeller Model:** HC-C2YR-1BF

**Propeller T.C.:** P-920

**Blade Model(s):** F7666-2

F7666A-2

**Prop Diameter:** 74" TO 72.5"

### Prop Setup:

**Ref. Radius:** 30

**Reverse Angle:** NA

**Low Pitch Angle:** 13.0 +-0.1

**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:** MOONEY

**IDS No.:** 654

**Rev.:** 1

**IC Date:** 04/25/2016

**Modifier:**

**Engine Model:** O-360-A1A,-A1D,-A2D

**Power:** 180 HP @ 2700 RPM

**Placard/Restr:** Avoid continuous operation between 2000 and 2250 RPM

**Notes:** "K" Flange approved; K-FLANGE PROP MODEL LISTED ON IDS 1171

**Startlock Angle:** NA

**Feather/High Angle:** 29.0 +-2.0

**Cwt Angle:**

**Non-HPI Governor:** EDO

AIRE/MCCAULEY/WOODW  
ARD

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>         | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>    |
|------------------|--------------------|----------------------------|-----------------|----------------|--------------------|
| BLADE            | F7666-2            | IDS Item                   | 2               | Prop           |                    |
| BLADE            | F7666A-2           | PCP:BLADE UNIT, ALUMINUM   | 2               | Prop           |                    |
| SPINNER          | 835-20             | IDS Item                   | 1               | A/C            | Replaced by 835-33 |
| SPINNER          | 835-33             | SPINNER ASSEMBLY           | 1               | A/C            |                    |
| GOVERNOR         | D1-4               | IDS Item                   | 1               | A/C            |                    |
| GOVERNOR         | D1-6               | GOVERNOR ASSEMBLY, D-1-( ) | 1               | A/C            |                    |
| GOVERNOR         | H1                 | GOVERNOR ASSEMBLY, H-1-( ) | 1               | A/C            |                    |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20     | 6               | Prop           |                    |

# HARTZELL

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MOONEY

IDS No.: 1171 Rev.: 2 IC Date: 05/13/2016

Model: M20A,B,C,D,G

Modifier:

Trade Name:

Engine Model: O-360-A1A, -A1D, -A2D

Aircraft T.C./STC: 2A3

Power: 180 HP @ 2700 RPM

Propeller Model: HC-C2YK-1BF

Placard/Restr: Avoid continuous operation between 2000 and 2250 RPM

Propeller T.C.: P-920

Notes:

Blade Model(s): F7666A-2

Prop Diameter: 74.0" TO 72.5"

### Prop Setup:

Ref. Radius: 30

Startlock Angle: NA

Reverse Angle: NA

Feather/High Angle: 29.0 +-1.0

Low Pitch Angle: 13.0 +-0.1

Cwt Angle:

Stud Protrusion

### Non-HPI Items:

Non-HPI Spinner:

Non-HPI Governor: EDO

AIRE/MCCAULEY/WOODW

ARD

### Hartzell Approved Items:

| Item Type     | Item Number    | Description                | Quantity | Qty Per | Comments                 |
|---------------|----------------|----------------------------|----------|---------|--------------------------|
| PROPELLER     | C2K00048       | HC-C2YK-1BF/F7666A-2       | 1        | A/C     |                          |
| BLADE         | F7666A-2       | PCP:BLADE UNIT, ALUMINUM   | 2        | Prop    |                          |
| SPINNER       | 835-20         | IDS Item                   | 1        | Prop    | REPLACED BY 835-33       |
| SPINNER       | 835-33         | SPINNER ASSEMBLY           | 1        | A/C     |                          |
| SPINNER       | 835-33P        | SPINNER ASSEMBLY           | 1        | A/C     |                          |
| GOVERNOR      | D1-6           | GOVERNOR ASSEMBLY, D-1-( ) | 1        | A/C     |                          |
| GOVERNOR      | H1             | GOVERNOR ASSEMBLY, H-1-( ) | 1        | A/C     |                          |
| MTG BOLT/STUD | A-2067         | STUD, MOUNTING, 1/2-20     | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-C2YK-1BF-OH | O/H KIT                    | 1        | Prop    | For aftermarket use only |

# HARTZELL

## APPLICATION GUIDE

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MOONEY

IDS No.: 1394 Rev.: 2 IC Date: 07/16/2015

Model: M20C, D, G  
 Trade Name:  
 Aircraft T.C./STC: STC-SA4529NM-D  
 Propeller Model: HC-C3YR-1RF  
 Propeller T.C.: P25EA  
 Blade Model(s): F7282  
 Prop Diameter: 74.0" TO 73.0"

Modifier: HARTZELL PROPELLER  
 Engine Model: O-360-A1A, A1D  
 Power: 180 HP @ 2700 RPM  
 Placard/Restr: Refer to STC and 8110-3  
 Notes:

### Prop Setup:

Ref. Radius: 30  
 Reverse Angle: NA  
 Low Pitch Angle: 11.8 +/-0.1  
 Stud Protrusion

Startlock Angle: NA  
 Feather/High Angle: 30.0 +/-0.5  
 Cwt Angle:

### Non-HPI Items:

Non-HPI Spinner:

Non-HPI Governor:

### Hartzell Approved Items:

| Item Type     | Item Number     | Description              | Quantity | Qty Per | Comments                 |
|---------------|-----------------|--------------------------|----------|---------|--------------------------|
| PROPELLER     | C3R00021        | HC-C3YR-1RF/F7282        | 1        | A/C     |                          |
| PROPELLER     | C3R00021KD      | HC-C3YR-1RF/F7282        | 1        | A/C     |                          |
| PROPELLER     | C3R00021SKDTP*1 | C3R00021/835-47P         | 1        | A/C     |                          |
| PROPELLER     | C3R00021STP*1   | C3R00021/835-47P         | 1        | A/C     |                          |
| BLADE         | F7282           | PCP:BLADE UNIT, ALUMINUM | 3        | Prop    |                          |
| SPINNER       | 835-47          | SPINNER ASSEMBLY         | 1        | Prop    |                          |
| SPINNER       | 835-47P         | SPINNER ASSEMBLY         | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2067          | STUD, MOUNTING, 1/2-20   | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-C3YR-1RF-OH  | O/H KIT                  | 1        | Prop    | For aftermarket use only |

# HARTZELL

## APPLICATION GUIDE 159

MOONEY

**Model:** M20C, D, E, F, G  
**Trade Name:**  
**Aircraft T.C./STC:** STC-SA4502NM  
  
**Propeller Model:** HC-C2YK-1B(F)  
**Propeller T.C.:** P-920  
  
**Blade Model(s):** F7666A-2  
**Prop Diameter:** 74.0" TO 72.5 "

**IDS No.:** 76      **Rev.:** 1      **IC Date:** 07/07/2015  
**Modifier:** PAUL E. LOEWEN  
**Engine Model:** IO-360-A1A, -A1B, -A1B6, -A1B6D (-A1B6 OR -A1B6D, M20E & F)  
**Power:** 200 HP @ 2700 RPM  
**Placard/Restr:** With IO-360-A1A, A1B engines: Avoid continuous operation between 2000 and 2350 RPM.  
  
**Notes:** H-1 governor is suitable only for use on IO-360-A1B6D model engine. Other engine models listed will require a different governor model.

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 14.0 +-0.1  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 29.0 +-1.0  
**Cwt Angle:**

### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>         | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>               |
|------------------|--------------------|----------------------------|-----------------|----------------|-------------------------------|
| PROPELLER        | C2K00045           | HC-C2YK-1BF/F7666A-2       | 1               | A/C            |                               |
| BLADE            | F7666A-2           | PCP:BLADE UNIT, ALUMINUM   | 2               | Prop           |                               |
| SPINNER          | 835-20             | IDS Item                   | 1               | Prop           | Starter Ring Gear Mntd-no SMK |
| SPINNER          | 835-33             | SPINNER ASSEMBLY           | 1               | Prop           | Starter Ring Gear Mntd-no SMK |
| GOVERNOR         | H1                 | GOVERNOR ASSEMBLY, H-1-( ) | 1               | A/C            |                               |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20     | 6               | Prop           |                               |
| OVERHAUL KIT     | HC-C2YK-1BF-OH     | O/H KIT                    | 1               | Prop           | For aftermarket use only      |

# HARTZELL

## APPLICATION GUIDE

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MOONEY

IDS No.: 2450      Rev.: 2      IC      Date: 07/16/2015

**Model:** M20E,F  
**Trade Name:**  
**Aircraft T.C./STC:** STC-SA4529NM-D  
**Propeller Model:** HC-C3YR-1RF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** F7282  
**Prop Diameter:** 74.0" TO 73.0"

**Modifier:** HARTZELL PROPELLER  
**Engine Model:** IO-360-A1A  
**Power:** 200 HP @ 2700 RPM  
**Placard/Restr:** Refer to STC and 8110-3  
**Notes:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.5 +/-0.1  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 30.0 +/-0.5  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>       | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|--------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | C3R00920           | HC-C3YR-1RF/F7282        | 1               | A/C            |                          |
| PROPELLER        | C3R00920KD         | HC-C3YR-1RF/F7282        | 1               | A/C            |                          |
| PROPELLER        | C3R00920SKDTP      | C3R00920/835-47P         | 1               | A/C            |                          |
| PROPELLER        | C3R00920STP        | C3R00920/835-47P         | 1               | A/C            |                          |
| BLADE            | F7282              | PCP:BLADE UNIT, ALUMINUM | 3               | Prop           |                          |
| SPINNER          | 835-47             | SPINNER ASSEMBLY         | 1               | Prop           |                          |
| SPINNER          | 835-47P            | SPINNER ASSEMBLY         | 1               | Prop           |                          |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20   | 6               | Prop           |                          |
| OVERHAUL KIT     | HC-C3YR-1RF-OH     | O/H KIT                  | 1               | Prop           | For aftermarket use only |

# HARTZELL

## APPLICATION GUIDE

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MOONEY

IDS No.: 655      Rev.: 1      IC      Date: 07/07/2015

**Model:** M20E,F

**Trade Name:**

**Aircraft T.C./STC:** 2A3

**Propeller Model:** HC-C2YR-1BF

**Propeller T.C.:** P-920

**Blade Model(s):** F7666-2  
F7666A-2

**Prop Diameter:** 74" TO 72.5"

**Prop Setup:**

**Ref. Radius:** 30

**Reverse Angle:** NA

**Low Pitch Angle:** 14.0 +- 0.2

**Stud Protrusion**

**Modifier:**

**Engine Model:** IO-360-A1A

**Power:** 200 HP @ 2700 RPM

**Placard/Restr:**

**Notes:** "K" Flange approved.

**Startlock Angle:** NA

**Feather/High Angle:** 29.0 +-2.0

**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:** MOONEY (M20F ONLY)

**Non-HPI Governor:** MCCAULEY/EDO AIRE

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>         | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|----------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | C2R00025           | HC-C2YR-1BF/F7666A-2       | 1               | A/C            |                          |
| BLADE            | F7666-2            | IDS Item                   | 2               | Prop           |                          |
| BLADE            | F7666A-2           | PCP:BLADE UNIT, ALUMINUM   | 2               | Prop           |                          |
| SPINNER          | 835-20             | IDS Item                   | 1               | Prop           | REPLACED BY 835-33       |
| SPINNER          | 835-33             | SPINNER ASSEMBLY           | 1               | A/C            |                          |
| SPINNER          | 835-33P            | SPINNER ASSEMBLY           | 1               | A/C            |                          |
| GOVERNOR         | D1-4               | IDS Item                   | 1               | A/C            |                          |
| GOVERNOR         | D1-6               | GOVERNOR ASSEMBLY, D-1-( ) | 1               | A/C            |                          |
| GOVERNOR         | H1                 | GOVERNOR ASSEMBLY, H-1-( ) | 1               | A/C            |                          |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20     | 6               | Prop           |                          |
| OVERHAUL KIT     | HC-C2YR-1BF-OH     | O/H KIT                    | 1               | Prop           | For aftermarket use only |

# HARTZELL

## APPLICATION GUIDE

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MOONEY

**Model:** M20E, F  
**Trade Name:**  
**Aircraft T.C./STC:** SA02414CH-D  
**Propeller Model:** HC-C2YR-1BFP  
**Propeller T.C.:** P-920

**Blade Model(s):** F7497\*1  
**Prop Diameter:** 74

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** 15.7 +-0.2  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 2674      **Rev.:** 4      **IC Date:** 07/07/2015

**Modifier:** HARTZELL PROPELLER INC  
**Engine Model:** IO-360-A1A  
**Power:** 200 HP @ 2700 RPM  
**Placard/Restr:** Continuous operation is prohibited above 24 inches manifold pressure between 2350 and 2550 RPM.

### **Notes:**

**Startlock Angle:**  
**Feather/High Angle:** 29.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>             | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|--------------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | C2R10703           | HC-C2YR-1BFP/F7497[*1]         | 1               | A/C            |                          |
| BLADE            | F7497*1            | PCP:BLADE UNIT, ALUM [6,16,11] | 2               | Prop           |                          |
| SPINNER          | 103585             | SPINNER ASSEMBLY, COMPOSITE    | 1               | Prop           |                          |
| SPINNER          | 835-54             | SPINNER ASSEMBLY, "CNC"        | 1               | Prop           |                          |
| SPINNER          | 835-54P            | SPINNER ASSEMBLY, "CNC"        | 1               | A/C            |                          |
| SPINNER          | 835-58             | SPINNER ASSEMBLY               | 1               | Prop           |                          |
| SPINNER          | 835-58P            | SPINNER ASSEMBLY               | 1               | Prop           |                          |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20         | 6               | Prop           |                          |
| OVERHAUL KIT     | HC-C2YR-1BF-OH     | O/H KIT                        | 1               | Prop           | For aftermarket use only |

# HARTZELL

## APPLICATION GUIDE

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**MOONEY**

**Model:** M20E, F  
**Trade Name:**  
**Aircraft T.C./STC:** STC-SA4529NM-D  
**Propeller Model:** HC-C3YR-1RF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** F7282  
**Prop Diameter:** 74.0" TO 73.0"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.5 +-0.1  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number    | Description              | Quantity | Qty Per | Comments                 |
|---------------|----------------|--------------------------|----------|---------|--------------------------|
| PROPELLER     | C3R00022       | HC-C3YR-1RF/F7282        | 1        | A/C     |                          |
| PROPELLER     | C3R00022KD     | HC-C3YR-1RF/F7282        | 1        | A/C     |                          |
| BLADE         | F7282          | PCP:BLADE UNIT, ALUMINUM | 3        | Prop    |                          |
| SPINNER       | 835-47         | SPINNER ASSEMBLY         | 1        | Prop    |                          |
| SPINNER       | 835-47P        | SPINNER ASSEMBLY         | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2067         | STUD, MOUNTING, 1/2-20   | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-C3YR-1RF-OH | O/H KIT                  | 1        | Prop    | For aftermarket use only |

**IDS No.:** 1393      **Rev.:** 2      **IC Date:** 07/16/2015

**Modifier:** HARTZELL PROPELLER  
**Engine Model:** IO-360-A1A  
**Power:** 200 HP @ 2700 RPM  
**Placard/Restr:** Refer to STC and 8110-3  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 30.0 +-0.5  
**Cwt Angle:**

**Non-HPI Governor:**

**MOONEY**

**Model:** M20J  
**Trade Name:**  
**Aircraft T.C./STC:** 2A3  
**Propeller Model:** HC-C2YK-1BF  
**Propeller T.C.:** P-920  
**Blade Model(s):** F7666A-3Q  
**Prop Diameter:** 73" NO CUT OFF

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 14.1 +-0.1  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number    | Description              | Quantity | Qty Per | Comments                 |
|---------------|----------------|--------------------------|----------|---------|--------------------------|
| PROPELLER     | C2K00055       | HC-C2YK-1BF/F7666A-3Q    | 1        | A/C     |                          |
| BLADE         | F7666A-3Q      | PCP:BLADE UNIT, ALUMINUM | 2        | Prop    |                          |
| MTG BOLT/STUD | A-2067         | STUD, MOUNTING, 1/2-20   | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-C2YK-1BF-OH | O/H KIT                  | 1        | Prop    | For aftermarket use only |

**IDS No.:** 656      **Rev.:** 1      **IC Date:** 07/07/2015

**Modifier:**  
**Engine Model:** IO-360-A1B6D, -A3B6D  
**Power:** 200 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 30.3 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**



# HARTZELL

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**MOONEY**

IDS No.: 661      Rev.: 2      IC      Date: 07/16/2015

**Model:** M20J  
**Trade Name:**  
**Aircraft T.C./STC:** STC-SA4529NM-D  
**Propeller Model:** HC-C3YR-1RF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** F7282  
**Prop Diameter:** 74.0" TO 73.0"

**Modifier:** HARTZELL PROPELLER  
**Engine Model:** IO-360-A3B6(D), -A1B6D  
**Power:** 200 HP @ 2700 RPM  
**Placard/Restr:** Refer to AFMS  
**Notes:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.5 +/-0.1  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 30.0 +/-0.5  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>       | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|--------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | C3R00020           | HC-C3YR-1RF/F7282/SM7    | 1               | A/C            |                          |
| PROPELLER        | C3R00020KD         | HC-C3YR-1RF/F7282/SM7    | 1               | A/C            |                          |
| PROPELLER        | C3R00020SKDTP      | C3R00020/SM7/A-2295-4P   | 1               | A/C            |                          |
| PROPELLER        | C3R00020STP        | C3R00020/SM7/A-2295-4P   | 1               | A/C            |                          |
| PROPELLER        | C3R00022           | HC-C3YR-1RF/F7282        | 1               | A/C            |                          |
| PROPELLER        | C3R00022KD         | HC-C3YR-1RF/F7282        | 1               | A/C            |                          |
| BLADE            | F7282              | PCP:BLADE UNIT, ALUMINUM | 3               | Prop           |                          |
| SPINNER          | A-2295-4           | SPINNER ASSEMBLY         | 1               | Prop           |                          |
| SPINNER          | A-2295-4P          | SPINNER ASSEMBLY         | 1               | Prop           |                          |
| SPIN MTG KIT     | A-2476-7           | SPINNER - MTG KIT        | 1               | Prop           |                          |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20   | 6               | Prop           |                          |
| OVERHAUL KIT     | HC-C3YR-1RF-OH     | O/H KIT                  | 1               | Prop           | For aftermarket use only |

# HARTZELL

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### MOONEY

**Model:** M20J  
**Trade Name:** MISSILE  
**Aircraft T.C./STC:** STC-SA00081SE  
**Propeller Model:** PHC-C3YF-2UF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** FC7382  
**Prop Diameter:** 75.0" TO 73.0"

**IDS No.:** 662      **Rev.:** 1      **IC Date:** 07/15/2015

**Modifier:** STC/MOONEY LIMITED (ROCKET)  
**Engine Model:** IO-550-A  
**Power:** 300 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:** Use template

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 14.0 +-0.2  
**Stud Protrusion** 1.450 +-0.030

**Startlock Angle:** 19.5 +-1.5  
**Feather/High Angle:** 79.1 +-0.5  
**Cwt Angle:**

#### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:**

#### Hartzell Approved Items:

| Item Type     | Item Number     | Description              | Quantity | Qty Per | Comments                 |
|---------------|-----------------|--------------------------|----------|---------|--------------------------|
| PROPELLER     | C3F00250        | PHC-C3YF-2UF/FC7382/SM6  | 1        | A/C     |                          |
| BLADE         | FC7382          | PCP:BLADE UNIT, ALUMINUM | 3        | Prop    |                          |
| SPINNER       | D-3273-2P       | SPINNER ASSEMBLY         | 1        | Prop    |                          |
| SPIN MTG KIT  | A-2476-6        | SPINNER - MTG KIT        | 1        | Prop    |                          |
| COUNTERWEIGHT | B-3202H-5       | PCP:COUNTERWEIGHT        | 1        | Blade   | Blade Component          |
| MTG BOLT/STUD | A-2429-4        | STUD, MOUNTING, 1/2-20   | 6        | Prop    | Use w/E-7167-2 Hub Only  |
| MTG BOLT/STUD | A-2429-7        | STUD, MOUNTING, 1/2-20   | 6        | Prop    | Use w/E-7167-12 Hub Only |
| OVERHAUL KIT  | PHC-C3YF-2UF*1  | O/H KIT W/O SLIMSERTS    | 1        | Prop    | For aftermarket use only |
| OVERHAUL KIT  | PHC-C3YF-2UF-OH | O/H KIT                  | 1        | Prop    | For aftermarket use only |

### MOONEY

**Model:** M20K  
**Trade Name:**  
**Aircraft T.C./STC:** 2A3  
**Propeller Model:** BHC-J2YF-1BF  
**Propeller T.C.:** P37EA  
**Blade Model(s):** F8459A-11Q  
**Prop Diameter:** 73" NO CUT OFF

**IDS No.:** 657      **Rev.:** -      **DM Date:** 10/22/2008

**Modifier:**  
**Engine Model:** TSIO-360-G1B, GB3, GB4, LB1, MB1  
**Power:** 210 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 14.7 +-0.1  
**Stud Protrusion** 1.120 +-0.030

**Startlock Angle:** NA  
**Feather/High Angle:** 36.5 +-1.0  
**Cwt Angle:**

#### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:**

#### Hartzell Approved Items:

| Item Type     | Item Number | Description                  | Quantity | Qty Per | Comments |
|---------------|-------------|------------------------------|----------|---------|----------|
| PROPELLER     | J2F00008    | BHC-J2YF-1BF/F8459A-11Q/SM19 | 0        |         |          |
| BLADE         | F8459A-11Q  | PCP:BLADE UNIT, ALUMINUM     | 2        | Prop    |          |
| SPINNER       | A-2295      | SPINNER ASSEMBLY             | 1        | Prop    |          |
| SPIN MTG KIT  | A-2476-19   | SPINNER - MTG KIT            | 1        | Prop    |          |
| MTG BOLT/STUD | A-2429-3    | STUD, MOUNTING, 1/2-20       | 6        | Prop    |          |

# HARTZELL

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MOONEY

IDS No.: 659      Rev.: 3      IC Date: 07/16/2015

**Model:** M20K  
**Trade Name:** 231, 252  
**Aircraft T.C./STC:** STC-SA1505GL  
**Propeller Model:** PHC-J3YF-1RF  
**Propeller T.C.:** P36EA  
**Blade Model(s):** F7663

**Modifier:** HARTZELL PROPELLER  
**Engine Model:** TSIO-360-GB  
**Power:** 210 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

F7663A-2R  
 F7663A-2R\*1  
 F7663A-2R\*2  
 F7663AK-2R  
 F7663AK-2R\*1  
 F7663AK-2R\*3

**Prop Diameter:** 76.0" TO 74.0"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 10.0 +-0.1  
**Stud Protrusion** 1.120 +-0.030

**Startlock Angle:** NA  
**Feather/High Angle:** 30.0 +-1.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type      | Item Number     | Description                    | Quantity | Qty Per | Comments                       |
|----------------|-----------------|--------------------------------|----------|---------|--------------------------------|
| PROPELLER      | J3F00010        | PHC-J3YF-1RF/F7663A-2R[*2]/SM7 | 1        | A/C     |                                |
| PROPELLER      | J3F00010KD      | PHC-J3YF-1RF/F7663A-2R[*2]/SM7 | 1        | A/C     |                                |
| PROPELLER      | J3F00010SKDTP   | J3F00010/SM7/A-2295-1P         | 1        | A/C     |                                |
| PROPELLER      | J3F00010STP     | J3F00010/SM7/A-2295-1P         | 1        | A/C     |                                |
| PROPELLER      | J3F00047        | PHC-J3YF-1RF/F7663AK-2R[*1]SM7 | 1        | A/C     |                                |
| PROPELLER      | J3F00047KD      | PHC-J3YF-1RF/F7663AK-2R[*1]SM7 | 1        | A/C     |                                |
| PROPELLER      | J3F00047SKDTP   | J3F00047/SM7/A-2295-2P/DE-ICE  | 1        | A/C     |                                |
| PROPELLER      | J3F00047STP     | J3F00047/SM7/A-2295-2P/DE-ICE  | 1        | A/C     |                                |
| PROPELLER      | J3F00049        | PHC-J3YF-1RF/F7663AK-2R[*3]SM7 | 1        | A/C     |                                |
| PROPELLER      | J3F00049KD      | PHC-J3YF-1RF/F7663AK-2R[*3]SM7 | 1        | A/C     |                                |
| PROPELLER      | J3F00049SKDTP   | J3F00049/SM7/A-2295-2P/DE-ICE  | 1        | A/C     |                                |
| PROPELLER      | J3F00049STP     | J3F00049/SM7/A-2295-2P/DE-ICE  | 1        | A/C     |                                |
| BLADE          | F7663           | PCP:BLADE UNIT, ALUMINUM       | 3        | Prop    |                                |
| BLADE          | F7663A-2R       | PCP:BLADE UNIT, ALUM [1,1,1]   | 3        | Prop    |                                |
| BLADE          | F7663A-2R*1     | IDS Item                       | 3        | Prop    |                                |
| BLADE          | F7663A-2R*2     | PCP:BLADE UNIT, ALUM [6,1,1]   | 3        | Prop    | Supersedes F7663A-2R/this inst |
| BLADE          | F7663AK-2R      | PCP:BLADE UNIT,ALUM, 4H2200-3  | 3        | Prop    |                                |
| BLADE          | F7663AK-2R*1    | PCP:BLADE UNIT,ALUM 4H2351-3   | 3        | Prop    |                                |
| BLADE          | F7663AK-2R*3    | PCP:BLADE UNIT,ALUM 4H2200-3   | 3        | Prop    |                                |
| SPINNER        | A-2295-1        | SPINNER ASSEMBLY               | 1        | Prop    |                                |
| SPINNER        | A-2295-1P       | SPINNER ASSEMBLY               | 1        | Prop    |                                |
| SPINNER        | A-2295-2        | SPINNER ASSEMBLY               | 1        | Prop    |                                |
| SPINNER        | A-2295-2P       | SPINNER ASSEMBLY               | 1        | Prop    | w/ De-ice                      |
| SPIN MTG KIT   | A-2476-7        | SPINNER - MTG KIT              | 1        | Prop    |                                |
| DE-ICER        | 2H1291          | STRAP, RESTRAINER, DE-ICE      | 1        | Blade   | Blade component(on booted bld) |
| DE-ICER        | 4H2200-3        | DE-ICE BOOT                    | 1        | Blade   | Supersedes 7931-4E2200-3       |
| DE-ICER        | 4H2351-3        | DE-ICE BOOT                    | 1        | Blade   | Supersedes 7931-4E2351-3       |
| DE-ICE KIT PR  | 7931-67-750-1   | DE-ICE KIT (ONE PROP)          | 1        | Prop    | 28V,Included w/J3F00049S(KD)TP |
| DE-ICE KIT PR  | 7931-67-805-1   | DE-ICE KIT (ONE PROP)          | 1        | Prop    | 12V                            |
| DE-ICE KIT A/F | 7931-67-750-2   | AIRFRAME DE-ICE KIT            | 1        | A/C     | 28V,Included w/J3F00049S(KD)TP |
| DE-ICE KIT A/F | 7931-67-805-2   | AIRFRAME DE-ICE KIT            | 1        | A/C     | 12V                            |
| MTG BOLT/STUD  | A-2429-3        | STUD, MOUNTING, 1/2-20         | 6        | Prop    |                                |
| OVERHAUL KIT   | PHC-J3YF-1RF-OH | O/H KIT                        | 1        | Prop    | For aftermarket use only       |

# HARTZELL

MOONEY

**Model:** M20L  
**Trade Name:** PFM  
**Aircraft T.C./STC:** 2A3  
**Propeller Model:** BHC-J2YF-1C  
**Propeller T.C.:** P37EA  
**Blade Model(s):** B7421  
**Prop Diameter:** 74" NO CUT OFF

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 15.3 +-0.1  
**Stud Protrusion** 1.050 +-0.030

### Non-HPI Items:

**Non-HPI Spinner:**

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**IDS No.:** 658      **Rev.:** 1      **D**      **Date:** 09/09/2011

**Modifier:**

**Engine Model:** PFM-3200#3

**Power:** 217 HP @ 2343 RPM

**Placard/Restr:**

**Notes:** Reference Manual 145 for Airworthiness Limitations.

**Startlock Angle:** NA

**Feather/High Angle:** 40.0 +-1.0

**Cwt Angle:**

**Non-HPI Governor:** WOODWARD

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>        | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|---------------------------|-----------------|----------------|-----------------|
| BLADE            | B7421              | PCP:BLADE ASSY, COMPOSITE | 2               | Prop           |                 |
| SPINNER          | D-5413-P           | SPINNER ASSEMBLY          | 1               | Prop           |                 |
| MTG BOLT/STUD    | A-2429-3           | STUD, MOUNTING, 1/2-20    | 6               | Prop           |                 |

# HARTZELL

## APPLICATION GUIDE

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**MOONEY**

**Model:** M20R  
**Trade Name:** OVATION  
**Aircraft T.C./STC:** SA02004CH  
**Propeller Model:** PHC-J3YF-1RF  
**Propeller T.C.:** P36EA  
**Blade Model(s):** F7693DF-2\*1  
 F7693DFB-2  
**Prop Diameter:** 76" TO 75"

**IDS No.:** 1981      **Rev.:** 3      **IC Date:** 09/19/2017

**Modifier:** HARTZELL PROPELLER INC.  
**Engine Model:** IO-550-G  
**Power:** 280 HP @ 2500 RPM  
**Placard/Restr:**

**Notes:** ANTI-ICE; \*Hub clamping bolts which hold the TKS brackets in place, must be installed with the head of the bolt on the engine side of hub on smooth forged hubs.

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 16.5 +-0.2  
**Stud Protrusion** 1.450 +-0.030

**Startlock Angle:** NA  
**Feather/High Angle:** 38.0 +-1.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>             | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|--------------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | J3F00056           | PHC-J3YF-1RF/F7693DF-2[*1]/S40 | 1               | A/C            |                          |
| PROPELLER        | J3F00056KD         | PHC-J3YF-1RF/F7693DF-2[*1]/S40 | 1               | A/C            |                          |
| PROPELLER        | J3F00056SKDTP      | J3F00056/SM40/A-2295-10P       | 1               | A/C            |                          |
| PROPELLER        | J3F00056STP        | J3F00056/SM40/A-2295-10P       | 1               | A/C            |                          |
| PROPELLER        | J3F09100           | PHC-J3YF-1RF/F7693DFB-2/SM40   | 1               | A/C            |                          |
| PROPELLER        | J3F09100KD         | PHC-J3YF-1RF/F7693DFB-2/SM40   | 1               | A/C            |                          |
| PROPELLER        | J3F09105S          | PHC-J3YF-1RF/F7693DFB-2/SM40   | 1               | A/C            |                          |
| PROPELLER        | J3F09105SKD        | PHC-J3YF-1RF/F7693DFB-2/SM40   | 1               | A/C            |                          |
| PROPELLER        | J3F09105SKDTP      | PHC-J3YF-1RF/F7693DFB-2/SM40   | 1               | A/C            |                          |
| PROPELLER        | J3F09105STP        | PHC-J3YF-1RF/F7693DFB-2/SM40   | 1               | A/C            |                          |
| BLADE            | F7693DF-2*1        | PCP:BLADE UNIT, ALUM [6,1,1]   | 3               | Prop           |                          |
| BLADE            | F7693DFB-2         | PCP:BLADE UNIT, ALUMINUM       | 3               | Prop           |                          |
| SPINNER          | A-2295-10          | SPINNER ASSEMBLY               | 1               | A/C            |                          |
| SPINNER          | A-2295-10P         | SPINNER ASSEMBLY               | 1               | A/C            |                          |
| GOVERNOR         | S-1-3              | GOVERNOR ASSEMBLY, S-1-3       | 1               | A/C            | New Governor Model       |
| SPIN MTG KIT     | A-2476-40          | SPINNER - MTG KIT              | 1               | Prop           |                          |
| DE-ICER          | C-2131-11          | BOOT, ANTI-ICING               | 1               | Blade          |                          |
| DE-ICE KIT PR    | 7931-08151-25      | ANTI-ICE KIT (ONE PROP)        | 1               | Prop           |                          |
| MTG BOLT/STUD    | A-2429-4           | STUD, MOUNTING, 1/2-20         | 6               | Prop           |                          |
| OVERHAUL KIT     | PHC-J3YF-1RF-OH    | O/H KIT                        | 1               | Prop           | For aftermarket use only |

# HARTZELL

## APPLICATION GUIDE

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MOONEY

IDS No.: 3598 Rev.: 1 IC Date: 11/06/2020

**Model:** M20U  
**Trade Name:** Ovation Ultra  
**Aircraft T.C./STC:** 2A3  
**Propeller Model:** PHC-J3YF-1RF  
**Propeller T.C.:** P36EA  
**Blade Model(s):** F7693DF-2\*1  
 F7693DFB-2  
**Prop Diameter:** 76" TO 75"

**Modifier:**  
**Engine Model:** IO-550-G  
**Power:** 280 HP @ 2500 RPM  
**Placard/Restr:**

**Notes:** ANTI-ICE; \*Hub clamping bolts which hold the TKS brackets in place, must be installed with the head of the bolt on the engine side of hub on smooth forged hubs. \* When adding TKS P-clip to hub bolts, refer to Manual 115N (61-00-15) for torque values.

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 16.5 +-0.2  
**Stud Protrusion** 1.450 +-0.030

**Startlock Angle:** NA  
**Feather/High Angle:** 38.0 +-1.0  
**Cwt Angle:**

### Non-HPI Items:

Non-HPI Spinner:

Non-HPI Governor:

### Hartzell Approved Items:

| Item Type     | Item Number     | Description                    | Quantity | Qty Per | Comments                 |
|---------------|-----------------|--------------------------------|----------|---------|--------------------------|
| PROPELLER     | J3F00056        | PHC-J3YF-1RF/F7693DF-2[*1]/S40 | 1        |         |                          |
| PROPELLER     | J3F00056KD      | PHC-J3YF-1RF/F7693DF-2[*1]/S40 | 1        |         |                          |
| PROPELLER     | J3F09100        | PHC-J3YF-1RF/F7693DFB-2/SM40   | 1        |         |                          |
| PROPELLER     | J3F09100KD      | PHC-J3YF-1RF/F7693DFB-2/SM40   | 1        |         |                          |
| PROPELLER     | J3F09105S       | PHC-J3YF-1RF/F7693DFB-2/SM40   | 1        |         |                          |
| PROPELLER     | J3F09105SKD     | PHC-J3YF-1RF/F7693DFB-2/SM40   | 1        |         |                          |
| BLADE         | F7693DF-2*1     | PCP:BLADE UNIT, ALUM [6,1,1]   | 3        | Prop    |                          |
| BLADE         | F7693DFB-2      | PCP:BLADE UNIT, ALUMINUM       | 3        | Prop    |                          |
| SPINNER       | A-2295-10       | SPINNER ASSEMBLY               | 1        | A/C     |                          |
| SPINNER       | A-2295-10P      | SPINNER ASSEMBLY               | 1        | A/C     |                          |
| SPIN MTG KIT  | A-2476-40       | SPINNER - MTG KIT              | 1        | Prop    |                          |
| DE-ICER       | C-2131-11       | BOOT, ANTI-ICING               | 1        | Blade   |                          |
| DE-ICE KIT PR | 7931-08151-25   | ANTI-ICE KIT (ONE PROP)        | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2429-4        | STUD, MOUNTING, 1/2-20         | 6        | Prop    |                          |
| OVERHAUL KIT  | PHC-J3YF-1RF-OH | O/H KIT                        | 1        | Prop    | For aftermarket use only |

# HARTZELL

## APPLICATION GUIDE

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MOONEY

IDS No.: 2606 Rev.: 3 IC Date: 01/03/2017

**Model:** M20(R, S)  
**Trade Name:** OVATION & EAGLE  
**Aircraft T.C./STC:** SA02193CH  
**Propeller Model:** PHC-J3YF-1RF  
**Propeller T.C.:** P36EA  
**Blade Model(s):** F7693DF-2\*1  
 F7693DFB-2  
**Prop Diameter:** 76" max, 75" min

**Modifier:** Midwest Modifications LLC  
**Engine Model:** IO-550-G-AP  
**Power:** 310 HP @ 2700 RPM  
**Placard/Restr:**

**Notes:** ANTI-ICE: \* Hub clamping bolts which hold the TKS bracket in place must be installed with head of the bolt on engine side of hub on smooth forged hubs.

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** 13.0 +-0.2  
**Stud Protrusion** 1.450 +-0.030

**Startlock Angle:**  
**Feather/High Angle:** 38.0 +-1.0  
**Cwt Angle:**

### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>             | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|--------------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | J3F09071           | PHC-J3YF-1RF/F7693DF-2[*1/SM40 | 1               | A/C            |                          |
| PROPELLER        | J3F09106           | PHC-J3YF-1RF/F7693DFB-2/SM40   | 1               | A/C            |                          |
| BLADE            | F7693DF-2*1        | PCP:BLADE UNIT, ALUM [6,1,1]   | 3               | Prop           |                          |
| BLADE            | F7693DFB-2         | PCP:BLADE UNIT, ALUMINUM       | 3               | Prop           |                          |
| SPINNER          | A-2295-10P         | SPINNER ASSEMBLY               | 1               | Prop           |                          |
| SPIN MTG KIT     | A-2476-40          | SPINNER - MTG KIT              | 1               | Prop           |                          |
| DE-ICER          | C-2131-11          | BOOT, ANTI-ICING               | 1               | Blade          |                          |
| DE-ICE KIT PR    | 7931-08151-25      | ANTI-ICE KIT (ONE PROP)        | 1               | Prop           |                          |
| MTG BOLT/STUD    | A-2429-4           | STUD, MOUNTING, 1/2-20         | 6               | Prop           |                          |
| OVERHAUL KIT     | PHC-J3YF-1RF-OH    | O/H KIT                        | 1               | Prop           | For aftermarket use only |

# HARTZELL

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**MOONEY**

**Model:** M20(R,S)  
**Trade Name:** OVATION & EAGLE  
**Aircraft T.C./STC:** SA02482CH  
**Propeller Model:** PHC-J3YF-1N  
**Propeller T.C.:** P36EA  
**Blade Model(s):** N7605C-2  
 N7605CB-2  
**Prop Diameter:** 76"

**IDS No.:** 3147      **Rev.:** 1      **IC Date:** 07/16/2015

**Modifier:** MidWest Modifications LLC  
**Engine Model:** IO-550-G-AP  
**Power:** 310 HP @ 2700 RPM  
**Placard/Restr:**

**Notes:** Refer to Service Letter HC-SL-61-265 for special instructions applicable to certain hub part numbers when TKS anti-ice is installed.

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** 13.0 +-0.2  
**Stud Protrusion** 1.450 +-0.030

**Startlock Angle:**  
**Feather/High Angle:** 38.0 +-1.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>             | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>              |
|------------------|--------------------|--------------------------------|-----------------|----------------|------------------------------|
| PROPELLER        | J3F80800           | PHC-J3YF-1N/N7605C-2/SM40      | 1               | A/C            |                              |
| PROPELLER        | J3F81000           | PHC-J3YF-1N/N7605CB-2/SM40     | 1               | A/C            |                              |
| BLADE            | N7605C-2           | PCP:BLADE ASSY, COMPOSITE      | 3               | Prop           |                              |
| BLADE            | N7605CB-2          | PCP:BLADE ASSY, COMPOSITE      | 3               | Prop           |                              |
| SPINNER          | A-2295-10          | SPINNER ASSEMBLY               | 1               | Prop           |                              |
| SPINNER          | A-2295-10P         | SPINNER ASSEMBLY               | 1               | Prop           |                              |
| SPIN MTG KIT     | A-2476-40          | SPINNER - MTG KIT              | 1               | Prop           |                              |
| DE-ICER          | C-2131-9           | BOOT, ANTI-ICING               | 1               | Blade          | Incl. in N7605CB-2 blade BOM |
| MTG BOLT/STUD    | A-2429-4           | STUD, MOUNTING, 1/2-20         | 6               | Prop           |                              |
| MISC ACCES       | A-6741-158         | EROSION TAPE, 2" WIDE, 108' RL | 0               | Blade          | Included in blade BOM (12")  |
| OVERHAUL KIT     | PHC-J3YF-1N-OH     | O/H KIT                        | 1               | Prop           | For aftermarket use only     |



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**MOONEY**

**Model:** M20(R,S)  
**Trade Name:** OVATION & EAGLE  
**Aircraft T.C./STC:** SA02482CH  
**Propeller Model:** PHC-J3YF-1N  
**Propeller T.C.:** P36EA  
**Blade Model(s):** N7605-2  
 N7605B-2  
**Prop Diameter:** 76

**IDS No.:** 2671      **Rev.:** 1      **IC Date:** 07/16/2015

**Modifier:** MidWest Modifications LLC  
**Engine Model:** IO-550-G-AP  
**Power:** 310 HP @ 2700 RPM  
**Placard/Restr:**

**Notes:** Refer to Service Letter HC-SL-61-265 for special instructions applicable to certain hub part numbers when TKS anti-ice is installed.

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** 13.0 +-0.2  
**Stud Protrusion** 1.450 +-0.030

**Startlock Angle:**  
**Feather/High Angle:** 38.0 +-1.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>             | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>             |
|------------------|--------------------|--------------------------------|-----------------|----------------|-----------------------------|
| PROPELLER        | J3F20800           | PHC-J3YF-1N/N7605-2/SM40       | 0               |                |                             |
| PROPELLER        | J3F21000           | PHC-J3YF-1N/N7605B-2/SM40      | 0               |                |                             |
| BLADE            | N7605-2            | PCP:BLADE ASSY, COMPOSITE      | 3               | Prop           |                             |
| BLADE            | N7605B-2           | PCP:BLADE ASSY, COMPOSITE      | 3               | Prop           |                             |
| SPINNER          | A-2295-10          | SPINNER ASSEMBLY               | 1               | A/C            |                             |
| SPINNER          | A-2295-10P         | SPINNER ASSEMBLY               | 1               | A/C            |                             |
| SPIN MTG KIT     | A-2476-40          | SPINNER - MTG KIT              | 1               | Prop           |                             |
| DE-ICER          | C-2131-9           | BOOT, ANTI-ICING               | 1               | Blade          |                             |
| MTG BOLT/STUD    | A-2429-4           | STUD, MOUNTING, 1/2-20         | 6               | Prop           |                             |
| MISC ACCES       | A-6741-158         | EROSION TAPE, 2" WIDE, 108' RL | 0               | Blade          | Included in blade BOM (12") |
| OVERHAUL KIT     | PHC-J3YF-1N-OH     | O/H KIT                        | 1               | Prop           | For aftermarket use only    |

# HARTZELL

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**MOONEY**

**Model:** M20TN  
**Trade Name:** ACCLAIM  
**Aircraft T.C./STC:** 2A3  
**Propeller Model:** PHC-J3YF-1RF  
**Propeller T.C.:** P36EA  
**Blade Model(s):** F7693DF-2\*1  
**Prop Diameter:** 76 to 75

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** 16.5 +-0.2  
**Stud Protrusion** 1.450 +-0.030

**Non-HPI Items:**

**Non-HPI Spinner:**

**IDS No.:** 2567      **Rev.:** 3      **IC**      **Date:** 10/27/2016

**Modifier:**  
**Engine Model:** TSIO-550-G  
**Power:** 280 HP @ 2500 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:**  
**Feather/High Angle:** 38.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type     | Item Number     | Description                    | Quantity | Qty Per | Comments                 |
|---------------|-----------------|--------------------------------|----------|---------|--------------------------|
| PROPELLER     | J3F00056        | PHC-J3YF-1RF/F7693DF-2[*1]/S40 | 1        | A/C     |                          |
| PROPELLER     | J3F00056KD      | PHC-J3YF-1RF/F7693DF-2[*1]/S40 | 1        | A/C     |                          |
| BLADE         | F7693DF-2*1     | PCP:BLADE UNIT, ALUM [6,1,1]   | 3        | Prop    |                          |
| SPINNER       | A-2295-10       | SPINNER ASSEMBLY               | 1        | Prop    |                          |
| SPINNER       | A-2295-10P      | SPINNER ASSEMBLY               | 1        | Prop    |                          |
| SPIN MTG KIT  | A-2476-40       | SPINNER - MTG KIT              | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2429-4        | STUD, MOUNTING, 1/2-20         | 6        | Prop    |                          |
| OVERHAUL KIT  | PHC-J3YF-1RF-OH | O/H KIT                        | 1        | Prop    | For aftermarket use only |

**MOONEY**

**Model:** M22  
**Trade Name:** MUSTANG  
**Aircraft T.C./STC:** A6SW  
**Propeller Model:** HC-C2YK-1BF  
**Propeller T.C.:** P-920  
**Blade Model(s):** F8475-4  
**Prop Diameter:** 80" NO CUT OFF

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 16.0 +-0.2  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**IDS No.:** 663      **Rev.:** 1      **IC**      **Date:** 04/17/2020

**Modifier:**  
**Engine Model:** TIO-541-A1A  
**Power:** 310 HP @ 2575 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 40.5 +-2.0  
**Cwt Angle:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type     | Item Number | Description                  | Quantity | Qty Per | Comments |
|---------------|-------------|------------------------------|----------|---------|----------|
| PROPELLER     | C2K00125    | HC-C2YK-1BF/F8475-4          | 1        | A/C     |          |
| BLADE         | F8475-4     | PCP:BLADE UNIT, ALUM [1,1,1] | 2        | Prop    |          |
| SPINNER       | 835-33      | SPINNER ASSEMBLY             | 1        | Prop    |          |
| GOVERNOR      | F4-5        | IDS Item                     | 1        | A/C     |          |
| MTG BOLT/STUD | A-2067      | STUD, MOUNTING, 1/2-20       | 6        | Prop    |          |

# HARTZELL

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**MOONEY**

**Model:** M20(A-D,G)  
**Trade Name:**  
**Aircraft T.C./STC:** SA02414CH-D  
**Propeller Model:** HC-C2YR-1BFP  
**Propeller T.C.:** P-920  
**Blade Model(s):** F7497\*1  
**Prop Diameter:** 74"-72.5"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** 14.8 +-0.2  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number    | Description                    | Quantity | Qty Per | Comments                 |
|---------------|----------------|--------------------------------|----------|---------|--------------------------|
| PROPELLER     | C2R10704       | HC-C2YR-1BFP/F7497[*1]         | 1        | A/C     |                          |
| BLADE         | F7497*1        | PCP:BLADE UNIT, ALUM [6,16,11] | 2        | Prop    |                          |
| SPINNER       | 103585         | SPINNER ASSEMBLY, COMPOSITE    | 1        | Prop    |                          |
| SPINNER       | 835-54         | SPINNER ASSEMBLY, "CNC"        | 1        | Prop    |                          |
| SPINNER       | 835-54P        | SPINNER ASSEMBLY, "CNC"        | 1        | Prop    |                          |
| SPINNER       | 835-58         | SPINNER ASSEMBLY               | 1        | Prop    |                          |
| SPINNER       | 835-58P        | SPINNER ASSEMBLY               | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2067         | STUD, MOUNTING, 1/2-20         | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-C2YR-1BF-OH | O/H KIT                        | 1        | Prop    | For aftermarket use only |

**IDS No.:** 2718      **Rev.:** 4      **IC Date:** 07/07/2015

**Modifier:** HARTZELL PROPELLER INC  
**Engine Model:** O-360-A1(A,D)  
**Power:** 180 HP @ 2700 RPM  
**Placard/Restr:** None  
**Notes:**

**Startlock Angle:**  
**Feather/High Angle:** 29.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

**MOONEY**

**Model:** M20J  
**Trade Name:**  
**Aircraft T.C./STC:** SA02414CH-D  
**Propeller Model:** HC-C2YR-1BFP  
**Propeller T.C.:** P-920  
**Blade Model(s):** F7497\*1  
**Prop Diameter:** 74"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** 15.7 +-0.2  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number    | Description                    | Quantity | Qty Per | Comments                 |
|---------------|----------------|--------------------------------|----------|---------|--------------------------|
| PROPELLER     | C2R10705       | HC-C2YR-1BFP/F7497[*1]/SM10    | 1        | A/C     |                          |
| BLADE         | F7497*1        | PCP:BLADE UNIT, ALUM [6,16,11] | 2        | Prop    |                          |
| SPINNER       | A-2295-5       | SPINNER ASSEMBLY               | 1        | A/C     |                          |
| SPINNER       | A-2295-5P      | SPINNER ASSEMBLY               | 1        | A/C     |                          |
| SPIN MTG KIT  | A-2476-10*     | SPINNER - MTG KIT              | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2067         | STUD, MOUNTING, 1/2-20         | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-C2YR-1BF-OH | O/H KIT                        | 1        | Prop    | For aftermarket use only |

**IDS No.:** 2720      **Rev.:** 4      **IC Date:** 07/07/2015

**Modifier:** HARTZELL PROPELLER INC  
**Engine Model:** IO-360-A(1,3)B6D, A3B6  
**Power:** 200 HP @ 2700 RPM  
**Placard/Restr:** None  
**Notes:**

**Startlock Angle:**  
**Feather/High Angle:** 29.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

# HARTZELL

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**MOONEY**

IDS No.: 2923      Rev.: 2      IC      Date: 01/29/2018

**Model:** M20J  
**Trade Name:**  
**Aircraft T.C./STC:** SA09695AC  
**Propeller Model:** HC-C2YR-1BFP  
**Propeller T.C.:** P-920  
**Blade Model(s):** F7497  
**Prop Diameter:** 74" to 72.5"

**Modifier:** Alamo Aerospace  
**Engine Model:** IO-390-A3A6  
**Power:** 210 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** 15.7 +/- 0.2  
**Stud Protrusion**

**Startlock Angle:**  
**Feather/High Angle:** 29.0 +/- 1.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>            | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|-------------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | C2R10710           | HC-C2YR-1BFP/F7497/SM19       | 1               | Blade          |                          |
| BLADE            | F7497              | PCP:BLADE UNIT, ALUM [6,1,11] | 2               | Prop           |                          |
| SPINNER          | A-2295-5           | SPINNER ASSEMBLY              | 1               | Prop           |                          |
| SPINNER          | A-2295-5P          | SPINNER ASSEMBLY              | 1               | Prop           |                          |
| SPIN MTG KIT     | A-2476-19          | SPINNER - MTG KIT             | 1               | Prop           |                          |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20        | 6               | Prop           |                          |
| OVERHAUL KIT     | HC-C2YR-1BF-OH     | O/H KIT                       | 1               | Prop           | For aftermarket use only |

# HARTZELL

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**MOONEY**

**Model:** M20R,S, TN  
**Trade Name:**  
**Aircraft T.C./STC:** SA03024CH  
**Propeller Model:** PHC-J3YF-1RF  
**Propeller T.C.:** P36EA  
**Blade Model(s):** F7498\*1  
 F7498B\*1  
**Prop Diameter:** 76" to 74"

**IDS No.:** 3177      **Rev.:** 6      **IC Date:** 01/04/2022

**Modifier:** Hartzell Propeller Inc  
**Engine Model:** IO-550-G-PL, IO-550-N, TSIO-550-G  
**Power:** 310 HP @ 2700 RPM  
**Placard/Restr:**

**Notes:** IO-550-G-PL engine modified per STC SE02930AT. ANTI ICE; Hub clamping bolts that hold the TKS brackets in place must be installed with the head of the bolt on the engine side of the hub on smooth forged hubs."

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** 16.5 +/-0.2  
**Stud Protrusion** 1.450 +/- 0.030

**Startlock Angle:**  
**Feather/High Angle:** 38.0 +/- 1.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>            | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>                           |
|------------------|--------------------|-------------------------------|-----------------|----------------|---|
| PROPELLER        | J3F07507           | PHC-J3YF-1RF/F7498[*1]/SM40   | 1               | A/C            |   |
| PROPELLER        | J3F07507KD         | PHC-J3YF-1RF/F7498[*1]/SM40   | 1               | A/C            |   |
| PROPELLER        | J3F07550           | PHC-J3YF-1RF/F7498B[*1]/SM40  | 1               | A/C            |   |
| PROPELLER        | J3F07550KD         | PHC-J3YF-1RF/F7498B[*1]/SM40  | 1               | A/C            |   |
| PROPELLER        | J3F07551           | PHC-J3YF-1RF/F7498B[*1]/SM40  | 1               | A/C            |   |
| PROPELLER        | J3F07551KD         | PHC-J3YF-1RF/F7498B[*1]/SM40  | 1               | A/C            |   |
| BLADE            | F7498*1            | PCP:BLADE UNIT, ALUM [6,1,11] | 3               | Prop           |   |
| BLADE            | F7498B*1           | PCP:BLADE UNIT, ALUM [6,1,11] | 3               | Prop           |   |
| SPINNER          | A-2295-10          | SPINNER ASSEMBLY              | 1               | Prop           |   |
| SPINNER          | A-2295-10P         | SPINNER ASSEMBLY              | 1               | Prop           |   |
| SPIN MTG KIT     | A-2476-40          | SPINNER - MTG KIT             | 1               | Prop           |   |
| DE-ICER          | C-2131-11          | BOOT, ANTI-ICING              | 1               | Blade          |   |
| DE-ICE KIT PR    | 7931-08151-25      | ANTI-ICE KIT (ONE PROP)       | 1               | Prop           | Included in Props J3F07551 AND J3F07551KD |
| MTG BOLT/STUD    | A-2429-4           | STUD, MOUNTING, 1/2-20        | 6               | Prop           |   |
| OVERHAUL KIT     | PHC-J3YF-1RF-OH    | O/H KIT                       | 1               | Prop           | For aftermarket use only                  |

# HARTZELL

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**MOONEY**

IDS No.: 3597      Rev.: -      IC      Date: 05/08/2018

**Model:** M20V  
**Trade Name:** ACCLAIM Ultra  
**Aircraft T.C./STC:** 2A3  
**Propeller Model:** PHC-J3YF-1RF  
**Propeller T.C.:** P36EA  
**Blade Model(s):** F7498  
    F7498\*1  
**Prop Diameter:** 76 to 74

**Modifier:**  
**Engine Model:** TSIO-550-G  
**Power:** 280 HP @ 2500 RPM  
**Placard/Restr:** None.  
**Notes:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** 17.0 +-0.2  
**Stud Protrusion** 1.450 +-0.030

**Startlock Angle:**  
**Feather/High Angle:** 38.0 +-1.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type     | Item Number     | Description                   | Quantity | Qty Per | Comments                 |
|---------------|-----------------|-------------------------------|----------|---------|--------------------------|
| PROPELLER     | J3F07515        | PHC-J3YF-1RF/F7498/SM40       | 1        | A/C     |                          |
| PROPELLER     | J3F07515KD      | PHC-J3YF-1RF/F7498/SM40       | 1        | A/C     |                          |
| PROPELLER     | J3F07516        | PHC-J3YF-1RF/F7498*1/SM40     | 1        | A/C     |                          |
| PROPELLER     | J3F07516KD      | PHC-J3YF-1RF/F7498*1/SM40     | 1        | A/C     |                          |
| BLADE         | F7498           | PCP:BLADE UNIT, ALUM [6,1,1]  | 3        | Prop    |                          |
| BLADE         | F7498*1         | PCP:BLADE UNIT, ALUM [6,1,11] | 3        | Prop    |                          |
| SPINNER       | A-2295-10       | SPINNER ASSEMBLY              | 1        | A/C     |                          |
| SPINNER       | A-2295-10P      | SPINNER ASSEMBLY              | 1        | A/C     |                          |
| GOVERNOR      | S-1-3           | GOVERNOR ASSEMBLY, S-1-3      | 1        | A/C     |                          |
| SPIN MTG KIT  | A-2476-40       | SPINNER - MTG KIT             | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2429-4        | STUD, MOUNTING, 1/2-20        | 6        | Prop    |                          |
| OVERHAUL KIT  | PHC-J3YF-1RF-OH | O/H KIT                       | 1        | Prop    | For aftermarket use only |

**MORANE SAULNIER**

IDS No.: 664      Rev.: -      DM      Date: 10/01/1992

**Model:** see AEROSPATIALE  
**Trade Name:**  
**Aircraft T.C./STC:**  
**Propeller Model:**  
**Propeller T.C.:**  
**Blade Model(s):**  
**Prop Diameter:**

**Modifier:**  
**Engine Model:**  
**Power:** HP @ RPM  
**Placard/Restr:**  
**Notes:**

**Prop Setup:**

**Ref. Radius:**  
**Reverse Angle:**  
**Low Pitch Angle:**  
**Stud Protrusion**

**Startlock Angle:**  
**Feather/High Angle:**  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

# HARTZELL

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**MORAVAN**

**Model:** 242L  
**Trade Name:** ZLIN  
**Aircraft T.C./STC:** A76EU  
**Propeller Model:** HC-C3YR-4BF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** FC6890  
**Prop Diameter:** 70" TO 69"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 10.5 +-0.1  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**IDS No.:** 1307      **Rev.:** 1      **IC Date:** 07/15/2015

**Modifier:**  
**Engine Model:** AEIO-360-A1B6  
**Power:** 200 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 30.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:** WOODWARD

**Hartzell Approved Items:**

| Item Type     | Item Number    | Description                | Quantity | Qty Per | Comments                 |
|---------------|----------------|----------------------------|----------|---------|--------------------------|
| PROPELLER     | C3R00240       | HC-C3YR-4BF/FC6890/SM9     | 0        |         |                          |
| PROPELLER     | C3R00240KD     | HC-C3YR-4BF/FC6890/SM9     | 0        |         |                          |
| BLADE         | FC6890         | PCP:BLADE UNIT, ALUMINUM   | 3        | Prop    |                          |
| SPINNER       | D-5205-P       | SPINNER ASSEMBLY           | 1        | Prop    |                          |
| GOVERNOR      | F6-56          | GOVERNOR ASSEMBLY, F-6-( ) | 1        | Prop    |                          |
| SPIN MTG KIT  | A-2476-9       | SPINNER - MTG KIT          | 1        | Prop    |                          |
| COUNTERWEIGHT | B-3202H-7      | PCP:COUNTERWEIGHT          | 1        | Blade   | Blade Component          |
| MTG BOLT/STUD | A-2067         | STUD, MOUNTING, 1/2-20     | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-C3YR-4BF-OH | O/H KIT                    | 1        | Prop    | For aftermarket use only |

**MORAVAN**

**Model:** Z-42  
**Trade Name:** ZLIN  
**Aircraft T.C./STC:** Unknown  
**Propeller Model:** HC-C2YL-1B  
**Propeller T.C.:** P-920  
**Blade Model(s):** F7663A-4  
**Prop Diameter:** 72"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.0 +-0.1  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**IDS No.:** 665      **Rev.:** -      **DM Date:** 10/01/1992

**Modifier:**  
**Engine Model:** AIO-320  
**Power:** 160 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 27.0 +-2.0  
**Cwt Angle:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type     | Item Number | Description                      | Quantity | Qty Per | Comments |
|---------------|-------------|----------------------------------|----------|---------|----------|
| BLADE         | F7663A-4    | PCP:BLADE UNIT, ALUMINUM         | 2        | Prop    |          |
| MTG BOLT/STUD | A-2247-1    | STUD, MOUNTING, 7/16-20, DRILLED | 6        | Prop    |          |

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MUDRY

**Model:** CAP 21  
**Trade Name:**  
**Aircraft T.C./STC:** UNKNOWN  
**Propeller Model:** HC-C2YK-4BF  
**Propeller T.C.:** P-920

**Blade Model(s):** FC7666A-2  
**Prop Diameter:** 74

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** 13.5 +-0.1  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>            | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|-------------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | C2K00570           | HC-C2YK-4BF/FC7666A-2         | 1               | A/C            |                          |
| BLADE            | FC7666A-2          | PCP:BLADE UNIT, B-3202H-6 CWT | 2               | Prop           |                          |
| SPINNER          | C-2513-5           | SPINNER ASSEMBLY              | 1               | Prop           |                          |
| SPINNER          | C-2513-5P          | SPINNER ASSEMBLY              | 1               | Prop           |                          |
| COUNTERWEIGHT    | B-3202H-6          | PCP:COUNTERWEIGHT             | 1               | Blade          | Blade Component          |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20        | 6               | Prop           |                          |
| OVERHAUL KIT     | HC-C2YK-4BF-OH     | O/H KIT                       | 1               | Prop           | For aftermarket use only |

**IDS No.:** 2587      **Rev.:** 1      **IC**      **Date:** 07/07/2015

**Modifier:**

**Engine Model:** AEIO-360-A1B

**Power:** 200 HP @ 2700 RPM

**Placard/Restr:** Avoid continuous operation between 2000 and 2350 RPM. Avoid continuous operation above 2600 RPM in aerobatic flight.

**Notes:**

**Startlock Angle:**

**Feather/High Angle:** 28.0 +-1.0

**Cwt Angle:**

**Non-HPI Governor:**

MULTITECH (TEMCO)

**Model:** D16  
**Trade Name:** TWIN NAVION  
**Aircraft T.C./STC:** 2A1  
**Propeller Model:** HC-82XL-2, HC-A2XL-2  
**Propeller T.C.:** P24EA  
**Blade Model(s):**  
**Prop Diameter:** 74.2" TO 72.5"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 10.5 +-0.2  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u> | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|--------------------|-----------------|----------------|-----------------|
| SPINNER          | 835-30             | SPINNER ASSEMBLY   | 1               | Prop           |                 |

**IDS No.:** 2206      **Rev.:** -      **BC**      **Date:** 04/10/2014

**Modifier:**

**Engine Model:** O-290-D2A

**Power:** 140 HP @ 2750 RPM

**Placard/Restr:**

**Notes:**

**Startlock Angle:** NA

**Feather/High Angle:** 78.0 +-0.5

**Cwt Angle:** Positive

**Non-HPI Governor:** HAMILTON, WOODWARD



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### MULTITECH (TEMCO)

**Model:** D16  
**Trade Name:** TWIN NAVION  
**Aircraft T.C./STC:** 2A1  
**Propeller Model:** HC-82XL-2, HC-A2XL-2  
**Propeller T.C.:** P24EA  
**Blade Model(s):**  
**Prop Diameter:** 74.2" TO 72.5"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 11.3 +-0.2  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

#### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u> | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|--------------------|-----------------|----------------|-----------------|
| SPINNER          | 835-30             | SPINNER ASSEMBLY   | 1               | Prop           |                 |

**IDS No.:** 2205      **Rev.:** -      **BC Date:** 04/10/2014

**Modifier:**  
**Engine Model:** O-320-A1A  
**Power:** 150 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 78.0 +-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:** HAMILTON, WOODWARD

### MULTITECH (TEMCO)

**Model:** D16  
**Trade Name:** TWIN NAVION  
**Aircraft T.C./STC:** 2A1  
**Propeller Model:** HC-A2MVL-2  
**Propeller T.C.:** P24EA  
**Blade Model(s):** MV7636N-2  
**Prop Diameter:** 74.2" TO 72.5"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 10.5 +-0.2  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

#### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>       | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|--------------------------|-----------------|----------------|-----------------|
| BLADE            | MV7636N-2          | PCP:BLADE UNIT, ALUMINUM | 2               | Prop           |                 |
| SPINNER          | 835-30             | SPINNER ASSEMBLY         | 1               | Prop           |                 |

**IDS No.:** 671      **Rev.:** -      **DM Date:** 05/16/1998

**Modifier:**  
**Engine Model:** O-290-D2A  
**Power:** 140 HP @ 2750 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 78.0 +-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:** HAMILTON, WOODWARD

# HARTZELL

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### MULTITECH (TEMCO)

**Model:** D16  
**Trade Name:** TWIN NAVION  
**Aircraft T.C./STC:** 2A1  
**Propeller Model:** HC-A2MVL-2  
**Propeller T.C.:** P24EA  
**Blade Model(s):** MV7636N-2  
**Prop Diameter:** 74.2" TO 72.5"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 11.3 +/-0.2  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 670      **Rev.:** -      **DM Date:** 06/13/2006

**Modifier:**  
**Engine Model:** O-320-A1A  
**Power:** 150 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 78.0 +/-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:** HAMILTON, WOODWARD

#### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>       | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|--------------------------|-----------------|----------------|-----------------|
| BLADE            | MV7636N-2          | PCP:BLADE UNIT, ALUMINUM | 2               | Prop           |                 |
| SPINNER          | 835-30             | SPINNER ASSEMBLY         | 1               | Prop           |                 |

### MULTITECH (TEMCO)

**Model:** D16A, D16  
**Trade Name:** TWIN NAVION  
**Aircraft T.C./STC:** 2A1  
**Propeller Model:** HC-82VL-2, HC-A2VL-2  
**Propeller T.C.:** P24EA  
**Blade Model(s):** V8433N-12  
**Prop Diameter:** 72.2" TO 70"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 11.1 +/-0.2  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 2207      **Rev.:** -      **BC Date:** 04/10/2014

**Modifier:**  
**Engine Model:** O-340-A1A  
**Power:** 170 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 80.0 +/-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:** HAMILTON, WOODWARD

#### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>    | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|-----------------------|-----------------|----------------|-----------------|
| BLADE            | V8433N-12          | BLADE                 | 2               | Prop           |                 |
| SPINNER          | 835-30             | SPINNER ASSEMBLY      | 1               | Prop           |                 |
| MTG BOLT/STUD    | B-6489-20          | BOLT,7/16-20,HEX HEAD | 2               | Prop           |                 |
| MTG BOLT/STUD    | B-6489-25          | BOLT,7/16-20,HEX HEAD | 4               | Prop           |                 |

# HARTZELL

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### MULTITECH (TEMCO)

**Model:** D16A, D16  
**Trade Name:** TWIN NAVION  
**Aircraft T.C./STC:** 2A1  
**Propeller Model:** HC-A2MVL-2  
**Propeller T.C.:** P24EA  
**Blade Model(s):** MV8433N-12  
**Prop Diameter:** 72.2" TO 70"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 11.1 +-0.2  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 672      **Rev.:** 2      **IC Date:** 07/06/2015

**Modifier:**  
**Engine Model:** O-340-A1A  
**Power:** 170 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 80.0 +-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:** HAMILTON, WOODWARD

#### Hartzell Approved Items:

| Item Type     | Item Number   | Description              | Quantity | Qty Per | Comments                 |
|---------------|---------------|--------------------------|----------|---------|--------------------------|
| PROPELLER     | A2L10040      | HC-A2MVL-2/MV8433N-12    | 2        | A/C     |                          |
| BLADE         | MV8433N-12    | PCP:BLADE UNIT, ALUMINUM | 2        | Prop    |                          |
| SPINNER       | 835-30        | SPINNER ASSEMBLY         | 1        | Prop    | Modified see T.C.        |
| MTG BOLT/STUD | B-6489-20     | BOLT,7/16-20,HEX HEAD    | 2        | Prop    |                          |
| MTG BOLT/STUD | B-6489-25     | BOLT,7/16-20,HEX HEAD    | 4        | Prop    |                          |
| OVERHAUL KIT  | HC-A2MVL-2-OH | O/H KIT                  | 1        | Prop    | For aftermarket use only |

### MURPHY AIRCRAFT MFG.

**Model:** YUKON  
**Trade Name:**  
**Aircraft T.C./STC:** Experimental  
**Propeller Model:** HC-C2YR-1BFP  
**Propeller T.C.:** P-920

**Blade Model(s):** F8477-4  
**Prop Diameter:** 80

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** 10.5 +-0.2  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 2714      **Rev.:** 2      **IC Date:** 07/15/2020

**Modifier:**  
**Engine Model:** IO-390-X  
**Power:** 210 HP @ 2700 RPM  
**Placard/Restr:** Continuous operation is prohibited above 24" manifold pressure below 2250 RPM, and below 8" manifold pressure between 1950 and 2300 RPM.

**Notes:**  
**Startlock Angle:**  
**Feather/High Angle:** 30.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

#### Hartzell Approved Items:

| Item Type     | Item Number    | Description                  | Quantity | Qty Per | Comments                 |
|---------------|----------------|------------------------------|----------|---------|--------------------------|
| PROPELLER     | C2R11250       | HC-C2YR-1BFP/F8477-4/SM19    | 1        | A/C     |                          |
| BLADE         | F8477-4        | PCP:BLADE UNIT, ALUM [1,1,1] | 2        | Prop    |                          |
| SPINNER       | C-3568-P       | SPINNER ASSEMBLY             | 1        | A/C     |                          |
| GOVERNOR      | S-1-79         | GOVERNOR ASSEMBLY, S-1-79    | 1        | Prop    |                          |
| SPIN MTG KIT  | A-2476-19      | SPINNER - MTG KIT            | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2067         | STUD, MOUNTING, 1/2-20       | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-C2YR-1BF-OH | O/H KIT                      | 1        | Prop    | For aftermarket use only |

# HARTZELL

## APPLICATION GUIDE

159

**MURPHY AIRCRAFT MFG. LTD**

IDS No.: 1608 Rev.: - DM Date: 01/20/1999

Model: SR2500  
 Trade Name: SUPER REBEL  
 Aircraft T.C./STC: Experimental  
 Propeller Model: HC-C3YR-1RF  
 Propeller T.C.: P25EA  
 Blade Model(s): F8468A-2R  
 Prop Diameter: 84" TO 76"

Modifier:  
 Engine Model: IO-540-D4A5  
 Power: 260 HP @ 2700 RPM  
 Placard/Restr:  
 Notes:

**Prop Setup:**

Ref. Radius: 30  
 Reverse Angle: NA  
 Low Pitch Angle: 10.3 +- 0.2  
 Stud Protrusion

Startlock Angle: NA  
 Feather/High Angle: 31.0 +- 1.0  
 Cwt Angle:

**Non-HPI Items:**

Non-HPI Spinner:

Non-HPI Governor:

**Hartzell Approved Items:**

| Item Type     | Item Number | Description                  | Quantity | Qty Per | Comments |
|---------------|-------------|------------------------------|----------|---------|----------|
| BLADE         | F8468A-2R   | PCP:BLADE UNIT, ALUM [1,1,1] | 3        | Prop    |          |
| SPINNER       | C-3575-P    | SPINNER ASSEMBLY             | 1        | Prop    |          |
| GOVERNOR      | V5-4        | GOVERNOR ASSEMBLY, V-5-()    | 1        | A/C     |          |
| SPIN MTG KIT  | A-2476-7    | SPINNER - MTG KIT            | 1        | Prop    |          |
| MTG BOLT/STUD | A-2067      | STUD, MOUNTING, 1/2-20       | 6        | Prop    |          |

**MURPHY AIRCRAFT MFG. LTD**

IDS No.: 1626 Rev.: 1 IC Date: 07/16/2015

Model: SR2500  
 Trade Name: SUPER REBEL  
 Aircraft T.C./STC: Experimental  
 Propeller Model: HC-C3YR-1RF  
 Propeller T.C.: P25EA  
 Blade Model(s): F8468A-2R  
 Prop Diameter: 84" TO 76"

Modifier:  
 Engine Model: O-540-A4A5  
 Power: 250 HP @ 2575 RPM  
 Placard/Restr:  
 Notes:

**Prop Setup:**

Ref. Radius: 30  
 Reverse Angle: NA  
 Low Pitch Angle: 11.3 +- 0.2  
 Stud Protrusion

Startlock Angle: NA  
 Feather/High Angle: 31.0 +- 1.0  
 Cwt Angle:

**Non-HPI Items:**

Non-HPI Spinner:

Non-HPI Governor:

**Hartzell Approved Items:**

| Item Type     | Item Number    | Description                  | Quantity | Qty Per | Comments                 |
|---------------|----------------|------------------------------|----------|---------|--------------------------|
| PROPELLER     | C3R00054       | HC-C3YR-1RF/F8468A-2R/SM7    | 1        | A/C     |                          |
| BLADE         | F8468A-2R      | PCP:BLADE UNIT, ALUM [1,1,1] | 3        | Prop    |                          |
| SPINNER       | C-3575-P       | SPINNER ASSEMBLY             | 1        | Prop    |                          |
| GOVERNOR      | V3-5           | GOVERNOR ASSEMBLY, V-3-()    | 1        | A/C     |                          |
| SPIN MTG KIT  | A-2476-7       | SPINNER - MTG KIT            | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2067         | STUD, MOUNTING, 1/2-20       | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-C3YR-1RF-OH | O/H KIT                      | 1        | Prop    | For aftermarket use only |

# HARTZELL

## APPLICATION GUIDE

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MURPHY AIRCRAFT MFG. LTD.

**Model:** SR2500  
**Trade Name:**  
**Aircraft T.C./STC:** Experimental  
**Propeller Model:** HC-C2YR-1BF  
**Propeller T.C.:** P-920  
**Blade Model(s):** F8477-4  
**Prop Diameter:** 80"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 11.2 +-0.2  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number | Description                  | Quantity | Qty Per | Comments |
|---------------|-------------|------------------------------|----------|---------|----------|
| BLADE         | F8477-4     | PCP:BLADE UNIT, ALUM [1,1,1] | 2        | Prop    |          |
| SPINNER       | A-2298-2P   | SPINNER ASSEMBLY             | 1        | Prop    |          |
| SPIN MTG KIT  | A-2476-16   | SPINNER - MTG KIT            | 1        | Prop    |          |
| MTG BOLT/STUD | A-2067      | STUD, MOUNTING, 1/2-20       | 6        | Prop    |          |

**IDS No.:** 1538      **Rev.:** -      **DM Date:** 07/13/1998

**Modifier:**  
**Engine Model:** (I)O-360-(A,B,C) SERIES  
**Power:** 200 HP @ 2700 RPM  
**Placard/Restr:**

**Notes:** Must use C-1576 damper assembly

**Startlock Angle:** NA  
**Feather/High Angle:** 31.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

MURPHY AIRCRAFT MFG. LTD.

**Model:** SR2500  
**Trade Name:**  
**Aircraft T.C./STC:** Experimental  
**Propeller Model:** HC-C2YR-1BF  
**Propeller T.C.:** P-920  
**Blade Model(s):** F8477  
**Prop Diameter:** 84"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.5 +-0.2  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number    | Description                  | Quantity | Qty Per | Comments                 |
|---------------|----------------|------------------------------|----------|---------|--------------------------|
| PROPELLER     | C2R00070       | HC-C2YR-1BF/F8477/SM19       | 1        | A/C     |                          |
| BLADE         | F8477          | PCP:BLADE UNIT, ALUM [1,1,1] | 2        | Prop    |                          |
| SPINNER       | A-2298-2P      | SPINNER ASSEMBLY             | 1        | Prop    |                          |
| GOVERNOR      | V3-5           | GOVERNOR ASSEMBLY, V-3-( )   | 1        | A/C     |                          |
| SPIN MTG KIT  | A-2476-19      | SPINNER - MTG KIT            | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2067         | STUD, MOUNTING, 1/2-20       | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-C2YR-1BF-OH | O/H KIT                      | 1        | Prop    | For aftermarket use only |

**IDS No.:** 1308      **Rev.:** 1      **IC Date:** 07/07/2015

**Modifier:**  
**Engine Model:** O-540-A4A5  
**Power:** 250 HP @ 2575 RPM  
**Placard/Restr:**

**Notes:**  
**Startlock Angle:** NA  
**Feather/High Angle:** 31.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

# HARTZELL

## APPLICATION GUIDE

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### MUSTANG AERONAUTICS

**Model:** MUSTANG II  
**Trade Name:**  
**Aircraft T.C./STC:** Experimental  
**Propeller Model:** HC-C2YL-1BF  
**Propeller T.C.:** P-920  
**Blade Model(s):** F7663A-4  
**Prop Diameter:** 72" TO 70"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** 12.0 +-0.1  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 2473      **Rev.:** 1      **IC Date:** 07/07/2015

**Modifier:**  
**Engine Model:** IO-320  
**Power:** 160 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:**  
**Feather/High Angle:** 29.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

#### Hartzell Approved Items:

| Item Type     | Item Number    | Description                    | Quantity | Qty Per | Comments                 |
|---------------|----------------|--------------------------------|----------|---------|--------------------------|
| PROPELLER     | C2L00046       | HC-C2YL-1BF/F7663A-4/SM8       | 1        | A/C     |                          |
| BLADE         | F7663A-4       | PCP:BLADE UNIT, ALUMINUM       | 2        | Prop    |                          |
| SPINNER       | A-2297-P       | SPINNER ASSEMBLY               | 1        | A/C     |                          |
| SPIN MTG KIT  | A-2476-8       | SPINNER - MTG KIT              | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2247-1       | STUD, MOUNTING,7/16-20,DRILLED | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-C2YL-1BF-OH | O/H KIT                        | 1        | Prop    | For aftermarket use only |

### MUSTANG AERONAUTICS

**Model:** MUSTANG II  
**Trade Name:**  
**Aircraft T.C./STC:** Experimental  
**Propeller Model:** HC-F2YL-1F  
**Propeller T.C.:** P27EA  
**Blade Model(s):** F7663A-4  
F7663D-4  
**Prop Diameter:** 72"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.0 +-0.1  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 1634      **Rev.:** 2      **IC Date:** 02/21/2019

**Modifier:**  
**Engine Model:** IO-320-B1A  
**Power:** 160 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 30.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

#### Hartzell Approved Items:

| Item Type     | Item Number   | Description                    | Quantity | Qty Per | Comments                 |
|---------------|---------------|--------------------------------|----------|---------|--------------------------|
| PROPELLER     | F2L00041      | HC-F2YL-1F/F7663A-4            | 1        | A/C     |                          |
| PROPELLER     | F2L00063      | HC-F2YL-1F/F7663D-4            | 1        | A/C     |                          |
| BLADE         | F7663A-4      | PCP:BLADE UNIT, ALUMINUM       | 2        | Prop    |                          |
| BLADE         | F7663D-4      | PCP:BLADE UNIT, ALUMINUM       | 2        | Prop    |                          |
| SPINNER       | C-4565        | SPINNER ASSEMBLY               | 1        | Prop    |                          |
| GOVERNOR      | F2-7AZ        | GOVERNOR ASSEMBLY, F-2-( )     | 1        | A/C     |                          |
| MTG BOLT/STUD | A-2247-1      | STUD, MOUNTING,7/16-20,DRILLED | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-F2YL-1F-OH | O/H KIT                        | 1        | Prop    | For aftermarket use only |

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### MUSTANG AERONAUTICS

**Model:** MUSTANG II  
**Trade Name:**  
**Aircraft T.C./STC:** Experimental  
**Propeller Model:** HC-C2YK-1BF  
**Propeller T.C.:** P-920  
**Blade Model(s):** F7666A-2  
**Prop Diameter:** 74"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.0 +/-0.2  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

#### Hartzell Approved Items:

| Item Type     | Item Number    | Description              | Quantity | Qty Per | Comments                 |
|---------------|----------------|--------------------------|----------|---------|--------------------------|
| PROPELLER     | C2K00011       | HC-C2YK-1BF/F7666A-2/SM8 | 1        | A/C     |                          |
| BLADE         | F7666A-2       | PCP:BLADE UNIT, ALUMINUM | 2        | Prop    |                          |
| SPINNER       | A-2297-P       | SPINNER ASSEMBLY         | 1        | Prop    |                          |
| SPIN MTG KIT  | A-2476-8       | SPINNER - MTG KIT        | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2067         | STUD, MOUNTING, 1/2-20   | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-C2YK-1BF-OH | O/H KIT                  | 1        | Prop    | For aftermarket use only |

**IDS No.:** 1635      **Rev.:** 1      **IC Date:** 07/07/2015

**Modifier:** MUSTANG AERONAUTICS  
**Engine Model:** IO-360 SERIES  
**Power:** 200 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 35.0 +/-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

### MXR

**Model:** MX-R / MX-S  
**Trade Name:**  
**Aircraft T.C./STC:** EXPERIMENTAL  
**Propeller Model:** HC-C3YR-1A  
**Propeller T.C.:** P25EA  
**Blade Model(s):** 7690E  
**Prop Diameter:** 78" No cut-off

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** 11.6 +/- 0.1  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

#### Hartzell Approved Items:

| Item Type     | Item Number   | Description                  | Quantity | Qty Per | Comments                 |
|---------------|---------------|------------------------------|----------|---------|--------------------------|
| PROPELLER     | C3R00014      | HC-C3YR-1A/7690E/SM34        | 1        | A/C     |                          |
| BLADE         | 7690E         | PCP:BLADE ASSY, COMP [3,1,1] | 3        | Prop    |                          |
| SPINNER       | D-7409        | SPINNER ASSEMBLY, COMPOSITE  | 1        | Prop    |                          |
| DE-ICE KIT PR | A-2476-34     | SPINNER - MTG KIT            | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2067        | STUD, MOUNTING, 1/2-20       | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-C3YR-1A-OH | O/H KIT                      | 1        | Prop    | For aftermarket use only |

**IDS No.:** 2872      **Rev.:** 1      **IC Date:** 07/16/2015

**Modifier:**  
**Engine Model:** AEIO-540  
**Power:** 300 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:**  
**Feather/High Angle:** 32.0 +/- 1.0  
**Cwt Angle:**

**Non-HPI Governor:**

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# HARTZELL

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NANCHANG

IDS No.: 673 Rev.: 1 IC Date: 07/16/2015

Model: N-5  
Trade Name:  
Aircraft T.C./STC: Unknown  
Propeller Model: HC-C3YR-1RF  
Propeller T.C.: P25EA  
Blade Model(s): F8475R  
Prop Diameter: 86"

Modifier:  
Engine Model: IO-720-D1B  
Power: 400 HP @ 2650 RPM  
Placard/Restr:  
Notes:

### Prop Setup:

Ref. Radius: 30  
Reverse Angle: NA  
Low Pitch Angle: 13.0 +-0.1  
Stud Protrusion

Startlock Angle: NA  
Feather/High Angle: 30.0 +-1.0  
Cwt Angle:

### Non-HPI Items:

Non-HPI Spinner:

Non-HPI Governor:

### Hartzell Approved Items:

| Item Type     | Item Number    | Description              | Quantity | Qty Per | Comments                 |
|---------------|----------------|--------------------------|----------|---------|--------------------------|
| PROPELLER     | C3R00091       | HC-C3YR-1RF/F8475R/SM7   | 1        | A/C     |                          |
| BLADE         | F8475R         | PCP:BLADE UNIT, ALUMINUM | 3        | Prop    |                          |
| SPINNER       | A-2295-1       | SPINNER ASSEMBLY         | 1        | Prop    |                          |
| SPIN MTG KIT  | A-2476-7       | SPINNER - MTG KIT        | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2067         | STUD, MOUNTING, 1/2-20   | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-C3YR-1RF-OH | O/H KIT                  | 1        | Prop    | For aftermarket use only |

NARDI

IDS No.: 674 Rev.: - DM Date: 05/16/1998

Model: FN-333  
Trade Name: LANE-SIAI RIVIERA  
Aircraft T.C./STC: 7A5  
Propeller Model: not procurable  
Propeller T.C.:  
Blade Model(s):  
Prop Diameter: 78.6" TO 76"

Modifier:  
Engine Model: IO-470-P  
Power: 250 HP @ 2600 RPM  
Placard/Restr:  
Notes:

### Prop Setup:

Ref. Radius: 30  
Reverse Angle: -14.5 +-0.5  
Low Pitch Angle: 12.5 +-0.2  
Stud Protrusion

Startlock Angle: NA  
Feather/High Angle: 28.5  
Cwt Angle: Positive

### Non-HPI Items:

Non-HPI Spinner:

Non-HPI Governor:

### Hartzell Approved Items:

| Item Type | Item Number | Description      | Quantity | Qty Per | Comments |
|-----------|-------------|------------------|----------|---------|----------|
| SPINNER   | 835-11S     | SPINNER ASSEMBLY | 1        | Prop    |          |

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NARDI

**Model:** FN-333  
**Trade Name:** LANE-SIAI RIVIERA  
**Aircraft T.C./STC:** 7A5  
**Propeller Model:** HC-A2X20-5L, HC-82X20-5L  
**Propeller T.C.:** P24EA  
**Blade Model(s):**  
**Prop Diameter:** 84" TO 81"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** -14.0 +-0.5  
**Low Pitch Angle:** 13.0 +-0.2  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 2208      **Rev.:** -      **BC Date:** 04/10/2014

**Modifier:**  
**Engine Model:** IO-470-P  
**Power:** 250 HP @ 2600 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 27.5 +-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>         | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|----------------------------|-----------------|----------------|-----------------|
| SPINNER          | 835-17             | SPINNER ASSEMBLY           | 1               | Prop           |                 |
| MTG BOLT/STUD    | A-63B              | PCP: NUT, SHAFT, 20 SPLINE | 1               | Prop           |                 |
| MTG BOLT/STUD    | A-63-B             | NUT,SHAFT,20 SPLINE        | 1               | Prop           |                 |

NARDI

**Model:** FN-333  
**Trade Name:** LANE-SIAI RIVIERA  
**Aircraft T.C./STC:** 7A5  
**Propeller Model:** HC-A2MV20-5L  
**Propeller T.C.:** P24EA  
**Blade Model(s):** LMV8433N  
**Prop Diameter:** 84" TO 81"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** -14.0 +-0.5  
**Low Pitch Angle:** 13.0 +-0.2  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 675      **Rev.:** 2      **IC Date:** 07/06/2015

**Modifier:**  
**Engine Model:** IO-470-P  
**Power:** 250 HP @ 2600 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 27.5 +-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>         | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|----------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | A2210201           | HC-A2MV20-5L/LMV8433N      | 1               | A/C            |                          |
| BLADE            | LMV8433N           | PCP:BLADE UNIT, ALUMINUM   | 2               | Prop           |                          |
| SPINNER          | 835-17             | SPINNER ASSEMBLY           | 1               | Prop           |                          |
| MTG BOLT/STUD    | A-63B              | PCP: NUT, SHAFT, 20 SPLINE | 1               | Prop           |                          |
| MTG BOLT/STUD    | A-63-B             | NUT,SHAFT,20 SPLINE        | 1               | Prop           |                          |
| OVERHAUL KIT     | HC-A2MV20-5L-OH    | O/H KIT                    | 1               | Prop           | For aftermarket use only |

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NAVION

Model: NAVION  
Trade Name:  
Aircraft T.C./STC: A782  
Propeller Model: not procurable  
Propeller T.C.:  
Blade Model(s):  
Prop Diameter: 84"

### Prop Setup:

Ref. Radius: 30  
Reverse Angle: NA  
Low Pitch Angle: 17.7 +/-0.2  
Stud Protrusion

### Non-HPI Items:

Non-HPI Spinner:

IDS No.: 676 Rev.: - DM Date: 05/16/1998

Modifier:  
Engine Model: E-185-3  
Power: 185 HP @ 2300 RPM  
Placard/Restr:  
Notes: Engine S/N 5122D and up

Startlock Angle: NA  
Feather/High Angle:  
Cwt Angle: Positive

Non-HPI Governor: NONE

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u> | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|--------------------|-----------------|----------------|-----------------|
| COUNTERWEIGHT    | 833-6              | IDS Item           | 1               | Blade          | 3 5/8"          |

NAVION

Model: NAVION  
Trade Name:  
Aircraft T.C./STC: A782  
Propeller Model: not procurable  
Propeller T.C.:  
Blade Model(s):  
Prop Diameter: 84" TO 82.4"

### Prop Setup:

Ref. Radius: 30  
Reverse Angle: NA  
Low Pitch Angle: 12.5 +/-0.2  
Stud Protrusion

### Non-HPI Items:

Non-HPI Spinner:

IDS No.: 681 Rev.: - DM Date: 10/06/1998

Modifier:  
Engine Model: E-185-3, -9  
Power: 205 HP @ 2600 RPM  
Placard/Restr:  
Notes:

Startlock Angle: NA  
Feather/High Angle: 23.0  
Cwt Angle: Positive

Non-HPI Governor:

### Hartzell Approved Items:

# HARTZELL

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NAVION

**Model:** NAVION  
**Trade Name:**  
**Aircraft T.C./STC:** A782  
**Propeller Model:** not procurable  
**Propeller T.C.:**  
**Blade Model(s):**  
**Prop Diameter:** 84" TO 82.4"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.5 +/-0.2  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

### Hartzell Approved Items:

**IDS No.:** 679      **Rev.:** -      **DM Date:** 10/06/1998

**Modifier:**  
**Engine Model:** E-185-3, -9  
**Power:** 205 HP @ 2600 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 24.5  
**Cwt Angle:** Positive

**Non-HPI Governor:**

NAVION

**Model:** NAVION  
**Trade Name:**  
**Aircraft T.C./STC:** A782  
**Propeller Model:** HC-D2X20-7, HC-D2X20-8  
**Propeller T.C.:** P48GL  
**Blade Model(s):** 8433  
**Prop Diameter:** 84" TO 82.4"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.5 +/-0.2  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

### Hartzell Approved Items:

**IDS No.:** 2299      **Rev.:** -      **BC Date:** 04/10/2014

**Modifier:**  
**Engine Model:** E-185-3, -9  
**Power:** 185 HP @ 2300 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 23.5 MIN  
**Cwt Angle:** Positive

**Non-HPI Governor:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>         | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|----------------------------|-----------------|----------------|-----------------|
| BLADE            | 8433               | BLADE                      | 2               | Prop           |                 |
| GOVERNOR         | A1                 | IDS Item                   | 1               | A/C            |                 |
| MTG BOLT/STUD    | A-63B              | PCP: NUT, SHAFT, 20 SPLINE | 1               | Prop           |                 |
| MTG BOLT/STUD    | A-63-B             | NUT,SHAFT,20 SPLINE        | 1               | Prop           |                 |

# HARTZELL

## APPLICATION GUIDE

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NAVION

**Model:** NAVION  
**Trade Name:**  
**Aircraft T.C./STC:** A782  
**Propeller Model:** HC-D2V20-7, HC-D2V20-8  
**Propeller T.C.:** P48GL  
**Blade Model(s):** V8433  
V8433N  
**Prop Diameter:** 84" TO 82.4"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.5 +/-0.2  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 2300 **Rev.:** - **DM Date:** 11/20/2003

**Modifier:**  
**Engine Model:** E-185-3, -9  
**Power:** 185 HP @ 2300 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 23.5 MIN  
**Cwt Angle:** Positive

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>         | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|----------------------------|-----------------|----------------|-----------------|
| BLADE            | V8433              | BLADE                      | 2               | Prop           |                 |
| BLADE            | V8433N             | BLADE                      | 2               | Prop           |                 |
| GOVERNOR         | A1                 | IDS Item                   | 1               | A/C            |                 |
| MTG BOLT/STUD    | A-63B              | PCP: NUT, SHAFT, 20 SPLINE | 1               | Prop           |                 |
| MTG BOLT/STUD    | A-63-B             | NUT,SHAFT,20 SPLINE        | 1               | Prop           |                 |

NAVION

**Model:** NAVION  
**Trade Name:**  
**Aircraft T.C./STC:** A782  
**Propeller Model:** HC-D2MV20-(7,8)  
**Propeller T.C.:** P48GL  
**Blade Model(s):** MV8433N  
**Prop Diameter:** 84" TO 82.4"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.5 +/-0.2  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 1560 **Rev.:** 2 **IC Date:** 07/06/2015

**Modifier:**  
**Engine Model:** E-185-3, -9  
**Power:** 185 HP @ 2300 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 23.5 MIN  
**Cwt Angle:** Positive

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>            | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|-------------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | D2210015           | HC-D2MV20-7/MV8433N/LESS HYD. | 1               | A/C            |                          |
| BLADE            | MV8433N            | PCP:BLADE UNIT, ALUM [1,1,1]  | 2               | Prop           |                          |
| GOVERNOR         | A1                 | IDS Item                      | 1               | A/C            |                          |
| MTG BOLT/STUD    | A-63B              | PCP: NUT, SHAFT, 20 SPLINE    | 1               | Prop           |                          |
| MTG BOLT/STUD    | A-63-B             | NUT,SHAFT,20 SPLINE           | 1               | Prop           |                          |
| OVERHAUL KIT     | HC-D2MV20-7-OH     | O/H KIT                       | 1               | Prop           | For aftermarket use only |

# HARTZELL

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**NAVION**

**Model:** NAVION  
**Trade Name:**  
**Aircraft T.C./STC:** STC-SA1-635  
**Propeller Model:** HC-82X20-4A1, HC-A2X20-4A1  
**Propeller T.C.:** P24EA  
**Blade Model(s):** 8433  
**Prop Diameter:** 84" TO 82.5"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 11.0 +/-0.2  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type          | Item Number | Description                | Quantity | Qty Per | Comments |
|--------------------|-------------|----------------------------|----------|---------|----------|
| BLADE              | 8433        | BLADE                      | 2        | Prop    |          |
| SPINNER            | 837-6       | SPINNER ASSEMBLY           | 1        | Prop    |          |
| GOVERNOR           | A1-C        | GOVERNOR ASSEMBLY, A-1-( ) | 1        | A/C     |          |
| GOVERNOR           | C-137-1B    | T - DRIVE - ASSEMBLY       | 1        | A/C     | T Drive  |
| COUNTERWEIGHT SLUG | A-619-3     | SLUG, COUNTERWEIGHT        | 2        | Blade   |          |
| MTG BOLT/STUD      | A-2053      | PCP: NUT,SHAFT,20 SPLINE   | 1        | Prop    |          |

**IDS No.:** 2215      **Rev.:** -      **DM Date:** 11/20/2003

**Modifier:** HARTZELL PROPELLER  
**Engine Model:** E-185  
**Power:** 205 HP @ 2600 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:**  
**Feather/High Angle:** 26.5 +/-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:**

**NAVION**

**Model:** NAVION  
**Trade Name:**  
**Aircraft T.C./STC:** STC-SA1-635  
**Propeller Model:** HC-82X20-4A1, HC-A2X20-4A1  
**Propeller T.C.:** P24EA  
**Blade Model(s):** 8433  
**Prop Diameter:** 84" TO 82.5"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 11.0 +/-0.2  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type          | Item Number | Description                | Quantity | Qty Per | Comments |
|--------------------|-------------|----------------------------|----------|---------|----------|
| BLADE              | 8433        | BLADE                      | 2        | Prop    |          |
| SPINNER            | 837-6       | SPINNER ASSEMBLY           | 1        | Prop    |          |
| GOVERNOR           | A1-C        | GOVERNOR ASSEMBLY, A-1-( ) | 1        | A/C     |          |
| GOVERNOR           | C-137-1B    | T - DRIVE - ASSEMBLY       | 1        | A/C     | T Drive  |
| COUNTERWEIGHT SLUG | A-619-4     | SLUG, COUNTERWEIGHT        | 2        | Blade   |          |
| MTG BOLT/STUD      | A-2053      | PCP: NUT,SHAFT,20 SPLINE   | 1        | Prop    |          |

**IDS No.:** 2216      **Rev.:** -      **DM Date:** 11/20/2003

**Modifier:** HARTZELL PROPELLER  
**Engine Model:** E-185-3, -9  
**Power:** 205 HP @ 2600 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 26.5 +/-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:**

# HARTZELL

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NAVION

**Model:** NAVION  
**Trade Name:**  
**Aircraft T.C./STC:** STC-SA1-635  
**Propeller Model:** HC-A2MV20-4A1  
**Propeller T.C.:** P24EA  
**Blade Model(s):** MV8433N  
**Prop Diameter:** 84" TO 82.5"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 11.0 +-0.2  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type                   | Item Number | Description                  | Quantity | Qty Per | Comments |
|-----------------------------|-------------|------------------------------|----------|---------|----------|
| BLADE                       | MV8433N     | PCP:BLADE UNIT, ALUM [1,1,1] | 2        | Prop    |          |
| SPINNER                     | 837-6       | SPINNER ASSEMBLY             | 1        | Prop    |          |
| GOVERNOR                    | A1-C        | GOVERNOR ASSEMBLY, A-1-( )   | 1        | A/C     |          |
| GOVERNOR                    | C-137-1B    | T - DRIVE - ASSEMBLY         | 1        | A/C     | T Drive  |
| COUNTERWEIGHT SLUG A-619-1  |             | SLUG, COUNTERWEIGHT          | 2        | Blade   |          |
| COUNTERWEIGHT SLUG B-3840-6 |             | SCREW, 10-32, FILLISTER HEAD | 2        | Blade   |          |
| MTG BOLT/STUD               | A-2053      | PCP: NUT,SHAFT,20 SPLINE     | 1        | Prop    |          |

**IDS No.:** 687 **Rev.:** 2 **D Date:** 01/07/2011

**Modifier:** HARTZELL PROPELLER  
**Engine Model:** E-185  
**Power:** 205 HP @ 2600 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:**  
**Feather/High Angle:** 26.5 +-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:**

NAVION

**Model:** NAVION  
**Trade Name:**  
**Aircraft T.C./STC:** STC-SA1-635  
**Propeller Model:** HC-A2MV20-4A1  
**Propeller T.C.:** P24EA  
**Blade Model(s):** MV8433N  
**Prop Diameter:** 84" TO 82.5"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 11.0 +-0.2  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type                   | Item Number   | Description                  | Quantity | Qty Per | Comments                 |
|-----------------------------|---------------|------------------------------|----------|---------|--------------------------|
| PROPELLER                   | A2210041      | HC-A2MV20-4A1/MV8433N/A224-4 | 1        | A/C     |                          |
| BLADE                       | MV8433N       | PCP:BLADE UNIT, ALUM [1,1,1] | 2        | Prop    |                          |
| SPINNER                     | 837-6         | SPINNER ASSEMBLY             | 1        | Prop    |                          |
| GOVERNOR                    | A1-C          | GOVERNOR ASSEMBLY, A-1-( )   | 1        | A/C     |                          |
| GOVERNOR                    | C-137-1B      | T - DRIVE - ASSEMBLY         | 1        | A/C     | T Drive                  |
| COUNTERWEIGHT SLUG A-619-1  |               | SLUG, COUNTERWEIGHT          | 2        | Blade   |                          |
| COUNTERWEIGHT SLUG B-3840-6 |               | SCREW, 10-32, FILLISTER HEAD | 2        | Blade   |                          |
| MTG BOLT/STUD               | A-2053        | PCP: NUT,SHAFT,20 SPLINE     | 1        | Prop    |                          |
| OVERHAUL KIT                | A-224-4-OH    | O/H KIT                      | 1        | Prop    | For aftermarket use only |
| OVERHAUL KIT                | HC-A2MV20-4A1 | O/H KIT                      | 1        | Prop    | For aftermarket use only |

**IDS No.:** 688 **Rev.:** 3 **IC Date:** 07/06/2015

**Modifier:** HARTZELL PROPELLER  
**Engine Model:** E-185-3, -9  
**Power:** 205 HP @ 2600 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 26.5 +-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:**

# HARTZELL

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NAVION

**Model:** NAVION  
**Trade Name:**  
**Aircraft T.C./STC:** STC-SA1-635  
**Propeller Model:** HC-82X20-4A1, HC-A2X20-4A1  
**Propeller T.C.:** P24EA  
**Blade Model(s):** 8433  
**Prop Diameter:** 84" TO 82.5"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.0 +-0.2  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 2217 **Rev.:** - **DM Date:** 11/20/2003

**Modifier:** HARTZELL PROPELLER  
**Engine Model:** E-225-4  
**Power:** 224 HP @ 2600 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:**  
**Feather/High Angle:** 26.5 +-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u>           | <u>Item Number</u> | <u>Description</u>         | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|----------------------------|--------------------|----------------------------|-----------------|----------------|-----------------|
| BLADE                      | 8433               | BLADE                      | 2               | Prop           |                 |
| SPINNER                    | 837-6              | SPINNER ASSEMBLY           | 1               | Prop           |                 |
| GOVERNOR                   | A1-C               | GOVERNOR ASSEMBLY, A-1-( ) | 1               | A/C            |                 |
| GOVERNOR                   | C-137-1B           | T - DRIVE - ASSEMBLY       | 1               | A/C            | T Drive         |
| COUNTERWEIGHT SLUG A-619-1 |                    | SLUG, COUNTERWEIGHT        | 2               | Blade          |                 |
| MTG BOLT/STUD              | A-2053             | PCP: NUT,SHAFT,20 SPLINE   | 1               | Prop           |                 |

NAVION

**Model:** NAVION  
**Trade Name:**  
**Aircraft T.C./STC:** STC-SA1-635  
**Propeller Model:** HC-A2X20-4A1  
**Propeller T.C.:** P24EA  
**Blade Model(s):** 8433  
**Prop Diameter:** 84" TO 82.5"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.0 +-0.2  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 2213 **Rev.:** - **DM Date:** 11/20/2003

**Modifier:** HARTZELL PROPELLER  
**Engine Model:** E-225-4  
**Power:** 225 HP @ 2650 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:**  
**Feather/High Angle:** 26.5 +-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u>           | <u>Item Number</u> | <u>Description</u>       | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|----------------------------|--------------------|--------------------------|-----------------|----------------|-----------------|
| BLADE                      | 8433               | BLADE                    | 2               | Prop           |                 |
| SPINNER                    | 837-6              | SPINNER ASSEMBLY         | 1               | Prop           |                 |
| GOVERNOR                   | C-137-1B           | T - DRIVE - ASSEMBLY     | 1               | A/C            | T Drive         |
| COUNTERWEIGHT SLUG A-619-2 |                    | SLUG, COUNTERWEIGHT      | 2               | Blade          |                 |
| MTG BOLT/STUD              | A-2053             | PCP: NUT,SHAFT,20 SPLINE | 1               | Prop           |                 |



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### NAVION

**Model:** NAVION  
**Trade Name:**  
**Aircraft T.C./STC:** STC-SA1-635  
**Propeller Model:** HC-A2V20-4A1  
**Propeller T.C.:** P24EA  
**Blade Model(s):** V8433  
**Prop Diameter:** 84" TO 82.5"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.0 +-0.2  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type          | Item Number | Description              | Quantity | Qty Per | Comments |
|--------------------|-------------|--------------------------|----------|---------|----------|
| BLADE              | V8433       | BLADE                    | 2        | Prop    |          |
| SPINNER            | 837-6       | SPINNER ASSEMBLY         | 1        | Prop    |          |
| GOVERNOR           | C-137-1B    | T - DRIVE - ASSEMBLY     | 1        | A/C     | T Drive  |
| COUNTERWEIGHT SLUG | A-619-2     | SLUG, COUNTERWEIGHT      | 2        | Blade   |          |
| MTG BOLT/STUD      | A-2053      | PCP: NUT,SHAFT,20 SPLINE | 1        | Prop    |          |

**IDS No.:** 2214      **Rev.:** -      **DM Date:** 11/20/2003

**Modifier:** HARTZELL PROPELLER  
**Engine Model:** E-225-4  
**Power:** 225 HP @ 2650 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:**  
**Feather/High Angle:** 26.5 +-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:**

### NAVION

**Model:** NAVION  
**Trade Name:**  
**Aircraft T.C./STC:** STC-SA1-635  
**Propeller Model:** HC-A2MV20-4A1  
**Propeller T.C.:** P24EA  
**Blade Model(s):** MV8433N  
**Prop Diameter:** 84" TO 82.5"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.0 +-0.2  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type          | Item Number   | Description                  | Quantity | Qty Per | Comments                 |
|--------------------|---------------|------------------------------|----------|---------|--------------------------|
| PROPELLER          | A2210043      | HC-A2MV20-4A1/MV8433N/A224-4 | 1        | A/C     |                          |
| BLADE              | MV8433N       | PCP:BLADE UNIT, ALUM [1,1,1] | 2        | Prop    |                          |
| SPINNER            | 837-6         | SPINNER ASSEMBLY             | 1        | Prop    |                          |
| GOVERNOR           | C-137-1B      | T - DRIVE - ASSEMBLY         | 1        | A/C     | T Drive                  |
| COUNTERWEIGHT SLUG | A-619-1       | SLUG, COUNTERWEIGHT          | 2        | Blade   |                          |
| COUNTERWEIGHT SLUG | B-3840-6      | SCREW, 10-32, FILLISTER HEAD | 2        | Blade   |                          |
| MTG BOLT/STUD      | A-2053        | PCP: NUT,SHAFT,20 SPLINE     | 1        | Prop    |                          |
| OVERHAUL KIT       | A-224-4-OH    | O/H KIT                      | 1        | Prop    | For aftermarket use only |
| OVERHAUL KIT       | HC-A2MV20-4A1 | O/H KIT                      | 1        | Prop    | For aftermarket use only |

**IDS No.:** 686      **Rev.:** 3      **IC Date:** 07/06/2015

**Modifier:** HARTZELL PROPELLER  
**Engine Model:** E-225-4  
**Power:** 225 HP @ 2650 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:**  
**Feather/High Angle:** 26.5 +-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:**

# HARTZELL

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NAVION

**Model:** NAVION  
**Trade Name:**  
**Aircraft T.C./STC:** STC-SA1-635  
**Propeller Model:** HC-A2MV20-4A1  
**Propeller T.C.:** P24EA  
**Blade Model(s):** MV8433N  
**Prop Diameter:** 84" TO 82.5"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.0 +-0.2  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 689      **Rev.:** 1      **D**      **Date:** 01/07/2011

**Modifier:** HARTZELL PROPELLER  
**Engine Model:** E-225-4  
**Power:** 224 HP @ 2600 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:**  
**Feather/High Angle:** 26.5 +-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:**

### Hartzell Approved Items:

| Item Type          | Item Number | Description                  | Quantity | Qty Per | Comments |
|--------------------|-------------|------------------------------|----------|---------|----------|
| BLADE              | MV8433N     | PCP:BLADE UNIT, ALUM [1,1,1] | 2        | Prop    |          |
| SPINNER            | 837-6       | SPINNER ASSEMBLY             | 1        | Prop    |          |
| GOVERNOR           | A1-C        | GOVERNOR ASSEMBLY, A-1-( )   | 1        | A/C     |          |
| GOVERNOR           | C-137-1B    | T - DRIVE - ASSEMBLY         | 1        | A/C     | T Drive  |
| COUNTERWEIGHT SLUG | A-619-1     | SLUG, COUNTERWEIGHT          | 2        | Blade   |          |
| MTG BOLT/STUD      | A-2053      | PCP: NUT,SHAFT,20 SPLINE     | 1        | Prop    |          |

NAVION

**Model:** NAVION  
**Trade Name:**  
**Aircraft T.C./STC:** STC-SA4-118  
**Propeller Model:** HC-12X20-7, HC-D2X20-7, HC-12X20-7C  
**Propeller T.C.:** P48GL  
**Blade Model(s):** 8433  
**Prop Diameter:** 84.0"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:**  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 2218      **Rev.:** -      **DM**      **Date:** 11/20/2003

**Modifier:** ROBERT DOUTHIT  
**Engine Model:**  
**Power:** HP @ RPM  
**Placard/Restr:**

**Notes:**  
**Startlock Angle:** NA  
**Feather/High Angle:**  
**Cwt Angle:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| Item Type | Item Number | Description | Quantity | Qty Per | Comments |
|-----------|-------------|-------------|----------|---------|----------|
| BLADE     | 8433        | BLADE       | 2        | Prop    |          |

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NAVION

**Model:** NAVION  
**Trade Name:**  
**Aircraft T.C./STC:** STC-SA4-118  
**Propeller Model:** HC-12V20-7, HC-D2V20-7,  
HC12V20-7C  
  
**Propeller T.C.:** P48GL  
**Blade Model(s):** V8433  
V8433N  
  
**Prop Diameter:** 84.0"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:**  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u> | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|--------------------|-----------------|----------------|-----------------|
| BLADE            | V8433              | BLADE              | 2               | Prop           |                 |
| BLADE            | V8433N             | BLADE              | 2               | Prop           |                 |

**IDS No.:** 2219      **Rev.:** -      **DM Date:** 11/20/2003

**Modifier:** ROBERT DOUTHIT  
**Engine Model:**  
**Power:** HP @ RPM  
**Placard/Restr:**

**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:**  
**Cwt Angle:**

**Non-HPI Governor:**

NAVION

**Model:** NAVION  
**Trade Name:**  
**Aircraft T.C./STC:** STC-SA4-118  
**Propeller Model:** HC-D2MV20-7  
  
**Propeller T.C.:** P48GL  
**Blade Model(s):** MV8433N  
  
**Prop Diameter:** 84.0"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:**  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>           | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|------------------------------|-----------------|----------------|-----------------|
| BLADE            | MV8433N            | PCP:BLADE UNIT, ALUM [1,1,1] | 2               | Prop           |                 |

**IDS No.:** 691      **Rev.:** -      **DM Date:** 05/16/1998

**Modifier:** ROBERT DOUTHIT  
**Engine Model:**  
**Power:** HP @ RPM  
**Placard/Restr:**

**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:**  
**Cwt Angle:**

**Non-HPI Governor:**

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### NAVION

**Model:** NAVION, NAVION A  
**Trade Name:**  
**Aircraft T.C./STC:** A782  
**Propeller Model:** HC-12X20-1  
**Propeller T.C.:**  
**Blade Model(s):** 8428  
**Prop Diameter:** 84" TO 82.4"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 10.5 +/-0.2  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

#### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u> | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|--------------------|-----------------|----------------|-----------------|
| BLADE            | 8428               | BLADE CONFIG ITEM  | 2               | Prop           |                 |

**IDS No.:** 678      **Rev.:** -      **DM Date:** 10/01/1992

**Modifier:**  
**Engine Model:** E-185-3, -9  
**Power:** 205 HP @ 2600 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 23.0 +/-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:**

### NAVION

**Model:** NAVION, NAVION A  
**Trade Name:**  
**Aircraft T.C./STC:** A782  
**Propeller Model:** HC-12X20-5  
**Propeller T.C.:**  
**Blade Model(s):** 8428  
**Prop Diameter:** 84" TO 82.4"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 10.5 +/-0.2  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

#### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u> | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|--------------------|-----------------|----------------|-----------------|
| BLADE            | 8428               | BLADE CONFIG ITEM  | 2               | Prop           |                 |
| COUNTERWEIGHT    | 833-22             | IDS Item           | 1               | Blade          |                 |

**IDS No.:** 680      **Rev.:** -      **DM Date:** 10/01/1992

**Modifier:**  
**Engine Model:** E-185-3, -9  
**Power:** 205 HP @ 2600 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 23.0 +/-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:**

# HARTZELL

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### NAVION

**Model:** NAVION, NAVION A  
**Trade Name:**  
**Aircraft T.C./STC:** A782  
**Propeller Model:** HC-12X20-7,-7B,-7C,-8 series  
**Propeller T.C.:**  
**Blade Model(s):** 8428  
**Prop Diameter:** 84" TO 82.4"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 10.5 +-0.2  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

#### Hartzell Approved Items:

| Item Type | Item Number | Description       | Quantity | Qty Per | Comments |
|-----------|-------------|-------------------|----------|---------|----------|
| BLADE     | 8428        | BLADE CONFIG ITEM | 2        | Prop    |          |
| GOVERNOR  | A1          | IDS Item          | 1        | A/C     |          |

**IDS No.:** 683      **Rev.:** -      **DM Date:** 10/01/1992

**Modifier:**  
**Engine Model:** E-185-3, -9  
**Power:** 205 HP @ 2600 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 23.0 +-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:**

### NAVION

**Model:** NAVION, NAVION A  
**Trade Name:**  
**Aircraft T.C./STC:** A782  
**Propeller Model:** HC-12X20-7, HC-D2X20-7, HC-12X20-7B  
  
**Propeller T.C.:** P48GL  
**Blade Model(s):** 8433  
**Prop Diameter:** 84" TO 82.4"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 14.0 +- 0.2  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

#### Hartzell Approved Items:

| Item Type     | Item Number | Description                | Quantity | Qty Per | Comments |
|---------------|-------------|----------------------------|----------|---------|----------|
| BLADE         | 8433        | BLADE                      | 2        | Prop    |          |
| MTG BOLT/STUD | A-63B       | PCP: NUT, SHAFT, 20 SPLINE | 1        | Prop    |          |
| MTG BOLT/STUD | A-63-B      | NUT,SHAFT,20 SPLINE        | 1        | Prop    |          |

**IDS No.:** 2209      **Rev.:** -      **BC Date:** 04/10/2014

**Modifier:**  
**Engine Model:** E-225-4  
**Power:** 224 HP @ 2600 RPM  
**Placard/Restr:**

**Notes:**  
  
**Startlock Angle:** NA  
**Feather/High Angle:** 23.0 MIN  
**Cwt Angle:** Positive

**Non-HPI Governor:**

# HARTZELL

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**NAVION**

**Model:** NAVION, NAVION A  
**Trade Name:**  
**Aircraft T.C./STC:** A782  
**Propeller Model:** HC-12V20-7, HC-D2V20-7, HC-12V20-7B  
**Propeller T.C.:** P48GL  
**Blade Model(s):** V8433  
V8433N  
**Prop Diameter:** 84" TO 82.4"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 14.0 +- 0.2  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number | Description                | Quantity | Qty Per | Comments |
|---------------|-------------|----------------------------|----------|---------|----------|
| BLADE         | V8433       | BLADE                      | 2        | Prop    |          |
| BLADE         | V8433N      | BLADE                      | 2        | Prop    |          |
| MTG BOLT/STUD | A-63B       | PCP: NUT, SHAFT, 20 SPLINE | 1        | Prop    |          |
| MTG BOLT/STUD | A-63-B      | NUT,SHAFT,20 SPLINE        | 1        | Prop    |          |

**IDS No.:** 2210      **Rev.:** -      **DM Date:** 11/20/2003

**Modifier:**  
**Engine Model:** E-225-4  
**Power:** 224 HP @ 2600 RPM  
**Placard/Restr:**

**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 23.0 MIN  
**Cwt Angle:** Positive

**Non-HPI Governor:**

**NAVION**

**Model:** NAVION, NAVION A  
**Trade Name:**  
**Aircraft T.C./STC:** A782  
**Propeller Model:** HC-D2MV20-7  
**Propeller T.C.:** P48GL  
**Blade Model(s):** MV8433N  
**Prop Diameter:** 84" TO 82.4"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 14.0 +- 0.2  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number    | Description                   | Quantity | Qty Per | Comments                 |
|---------------|----------------|-------------------------------|----------|---------|--------------------------|
| PROPELLER     | D2210014       | HC-D2MV20-7/MV8433N/LESS HYD. | 1        | A/C     |                          |
| BLADE         | MV8433N        | PCP:BLADE UNIT, ALUM [1,1,1]  | 2        | Prop    |                          |
| MTG BOLT/STUD | A-63B          | PCP: NUT, SHAFT, 20 SPLINE    | 1        | Prop    |                          |
| MTG BOLT/STUD | A-63-B         | NUT,SHAFT,20 SPLINE           | 1        | Prop    |                          |
| OVERHAUL KIT  | HC-D2MV20-7-OH | O/H KIT                       | 1        | Prop    | For aftermarket use only |

**IDS No.:** 677      **Rev.:** 2      **IC Date:** 07/06/2015

**Modifier:**  
**Engine Model:** E-225-4  
**Power:** 224 HP @ 2600 RPM  
**Placard/Restr:**

**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 23.0 MIN  
**Cwt Angle:** Positive

**Non-HPI Governor:**

# HARTZELL

NAVION

**Model:** NAVION A  
**Trade Name:**  
**Aircraft T.C./STC:** A782  
**Propeller Model:** not procurable  
**Propeller T.C.:**  
**Blade Model(s):**  
**Prop Diameter:** 84" TO 82.4"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 10.5 +/-0.2  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

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**IDS No.:** 1569      **Rev.:** -      **DM Date:** 10/06/1998

**Modifier:**  
**Engine Model:** E-185-3, -9  
**Power:** 205 HP @ 2600 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 23.0  
**Cwt Angle:** Positive

**Non-HPI Governor:**

NAVION

**Model:** NAVION A  
**Trade Name:**  
**Aircraft T.C./STC:** A782  
**Propeller Model:** not procurable  
**Propeller T.C.:**  
**Blade Model(s):**  
**Prop Diameter:** 84" TO 82.4"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 10.5 +/-0.2  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

**IDS No.:** 1568      **Rev.:** -      **DM Date:** 10/06/1998

**Modifier:**  
**Engine Model:** E-185-3, -9  
**Power:** 205 HP @ 2600 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 24.5  
**Cwt Angle:** Positive

**Non-HPI Governor:**

# HARTZELL

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NAVION

**Model:** NAVION A  
**Trade Name:**  
**Aircraft T.C./STC:** A782  
**Propeller Model:** HC-D2X20-7, HC-D2X20-8  
**Propeller T.C.:** P48GL  
**Blade Model(s):** 8433  
**Prop Diameter:** 84" TO 82.4"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 10.5 +/-0.2  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 2211      **Rev.:** -      **DM Date:** 11/20/2003

**Modifier:**  
**Engine Model:** E-185-3, -9  
**Power:** 205 HP @ 2600 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 23.5 MIN  
**Cwt Angle:** Positive

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>         | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|----------------------------|-----------------|----------------|-----------------|
| BLADE            | 8433               | BLADE                      | 2               | Prop           |                 |
| GOVERNOR         | A1                 | IDS Item                   | 1               | A/C            |                 |
| MTG BOLT/STUD    | A-63B              | PCP: NUT, SHAFT, 20 SPLINE | 1               | Prop           |                 |
| MTG BOLT/STUD    | A-63-B             | NUT,SHAFT,20 SPLINE        | 1               | Prop           |                 |

NAVION

**Model:** NAVION A  
**Trade Name:**  
**Aircraft T.C./STC:** A782  
**Propeller Model:** HC-D2V20-7, HC-D2V20-8  
**Propeller T.C.:** P48GL  
**Blade Model(s):** V8433  
V8433N  
**Prop Diameter:** 84" TO 82.4"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 10.5 +/-0.2  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 2212      **Rev.:** -      **DM Date:** 11/20/2003

**Modifier:**  
**Engine Model:** E-185-3, -9  
**Power:** 205 HP @ 2600 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 23.5 MIN  
**Cwt Angle:** Positive

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>         | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|----------------------------|-----------------|----------------|-----------------|
| BLADE            | V8433              | BLADE                      | 2               | Prop           |                 |
| BLADE            | V8433N             | BLADE                      | 2               | Prop           |                 |
| GOVERNOR         | A1                 | IDS Item                   | 1               | A/C            |                 |
| MTG BOLT/STUD    | A-63B              | PCP: NUT, SHAFT, 20 SPLINE | 1               | Prop           |                 |
| MTG BOLT/STUD    | A-63-B             | NUT,SHAFT,20 SPLINE        | 1               | Prop           |                 |



# HARTZELL

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### NAVION

**Model:** NAVION A  
**Trade Name:**  
**Aircraft T.C./STC:** A782  
**Propeller Model:** HC-D2MV20-(7,8)  
**Propeller T.C.:** P48GL  
**Blade Model(s):** MV8433N  
**Prop Diameter:** 84" TO 82.4"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 10.5 +/-0.2  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number    | Description                    | Quantity | Qty Per | Comments                 |
|---------------|----------------|--------------------------------|----------|---------|--------------------------|
| PROPELLER     | D2210012       | HC-D2MV20-7/MV8433N/VLV. & HYD | 1        | A/C     |                          |
| PROPELLER     | D2210016       | HC-D2MV20-7/MV8433N/LESS HYD.  | 1        | A/C     |                          |
| BLADE         | MV8433N        | PCP:BLADE UNIT, ALUM [1,1,1]   | 2        | Prop    |                          |
| GOVERNOR      | A1             | IDS Item                       | 1        | A/C     |                          |
| MTG BOLT/STUD | A-63B          | PCP: NUT, SHAFT, 20 SPLINE     | 1        | Prop    |                          |
| MTG BOLT/STUD | A-63-B         | NUT,SHAFT,20 SPLINE            | 1        | Prop    |                          |
| OVERHAUL KIT  | HC-D2MV20-7-OH | O/H KIT                        | 1        | Prop    | For aftermarket use only |

**IDS No.:** 682      **Rev.:** 2      **IC**      **Date:** 07/06/2015

**Modifier:**  
**Engine Model:** E-185-3, -9  
**Power:** 205 HP @ 2600 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 23.5 MIN  
**Cwt Angle:** Positive

**Non-HPI Governor:**

### NAVION

**Model:** NAVION B  
**Trade Name:**  
**Aircraft T.C./STC:** A782  
**Propeller Model:** HC-D2MV20-8  
**Propeller T.C.:** P48GL  
**Blade Model(s):** MV9333N  
**Prop Diameter:** 93" TO 91.2"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 16.5 +/-0.2  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number    | Description                   | Quantity | Qty Per | Comments                 |
|---------------|----------------|-------------------------------|----------|---------|--------------------------|
| PROPELLER     | D2210034       | HC-D2MV20-8/MV9333N/LESS HYD. | 1        | A/C     |                          |
| BLADE         | MV9333N        | PCP:BLADE UNIT, ALUMINUM      | 2        | Prop    |                          |
| SPINNER       | D-164          | IDS Item                      | 1        | Prop    | Obsolete                 |
| MTG BOLT/STUD | A-63B          | PCP: NUT, SHAFT, 20 SPLINE    | 1        | Prop    |                          |
| MTG BOLT/STUD | A-63-B         | NUT,SHAFT,20 SPLINE           | 1        | Prop    |                          |
| OVERHAUL KIT  | HC-D2MV20-8-OH | O/H KIT                       | 1        | Prop    | For aftermarket use only |

**IDS No.:** 684      **Rev.:** 2      **IC**      **Date:** 07/06/2015

**Modifier:**  
**Engine Model:** GO-435-C2  
**Power:** 260 HP @ 2182 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 31.0 MIN  
**Cwt Angle:** Positive

**Non-HPI Governor:**

# HARTZELL

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### NAVION

**Model:** NAVION B  
**Trade Name:**  
**Aircraft T.C./STC:** A782  
**Propeller Model:** HC-D3MV20-8D  
**Propeller T.C.:** P51GL  
**Blade Model(s):** MV8433N  
**Prop Diameter:** 84.6" TO 84.0"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 16.5 +-0.2  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

#### Hartzell Approved Items:

| Item Type     | Item Number     | Description                  | Quantity | Qty Per | Comments                 |
|---------------|-----------------|------------------------------|----------|---------|--------------------------|
| PROPELLER     | D3210051        | HC-D3MV20-8D/MV8433N         | 1        | A/C     |                          |
| BLADE         | MV8433N         | PCP:BLADE UNIT, ALUM [1,1,1] | 3        | Prop    |                          |
| MTG BOLT/STUD | A-63B           | PCP: NUT, SHAFT, 20 SPLINE   | 1        | Prop    |                          |
| MTG BOLT/STUD | A-63-B          | NUT,SHAFT,20 SPLINE          | 1        | Prop    |                          |
| OVERHAUL KIT  | HC-D3MV20-8D-OH | O/H KIT                      | 1        | Prop    | For aftermarket use only |

**IDS No.:** 685      **Rev.:** 2      **IC**      **Date:** 07/07/2015

**Modifier:**  
**Engine Model:** GO-435-C2  
**Power:** 260 HP @ 2182 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 32.0 +-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:**

### NAVION

**Model:** B  
**Trade Name:**  
**Aircraft T.C./STC:** STC-SA752WE  
**Propeller Model:** HC-83X20-2C1  
**Propeller T.C.:**  
**Blade Model(s):** MV9333N-3  
**Prop Diameter:** 90"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.5 +-0.2  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

#### Hartzell Approved Items:

| Item Type | Item Number | Description              | Quantity | Qty Per | Comments |
|-----------|-------------|--------------------------|----------|---------|----------|
| BLADE     | MV9333N-3   | PCP:BLADE UNIT, ALUMINUM | 3        | Prop    |          |
| SPINNER   | 835-10S     | SPINNER ASSEMBLY         | 1        | Prop    |          |

**IDS No.:** 690      **Rev.:** 1      **D**      **Date:** 01/07/2011

**Modifier:** DELUCA OF CALIFORNIA  
**Engine Model:** GO-480-B1D  
**Power:** 270 HP @ 2182 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 83.0 +-1.0  
**Cwt Angle:** Positive

**Non-HPI Governor:**

# HARTZELL

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NAVY

**Model:** N3N-3  
**Trade Name:**  
**Aircraft T.C./STC:** STC-SA4-1313  
**Propeller Model:** HA-B3Z30-1  
**Propeller T.C.:**  
**Blade Model(s):** 10160-6  
10160N-6  
**Prop Diameter:** 95.5"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:**  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u> | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>             |
|------------------|--------------------|--------------------|-----------------|----------------|-----------------------------|
| BLADE            | 10160-6            | IDS Item           | 3               | Prop           |                             |
| BLADE            | 10160N-6           | IDS Item           | 3               | Prop           |                             |
| SPINNER          | 836-16R            | IDS Item           | 1               | Prop           | 836-16R Spinner is Obsolete |

**IDS No.:** 692      **Rev.:** -      **DM Date:** 01/13/2005

**Modifier:** WEST COAST PROP  
**Engine Model:** R985  
**Power:** 450 HP @ 2300 RPM  
**Placard/Restr:**

**Notes:** 836-16R spinner assembly is obsolete

**Startlock Angle:**

**Feather/High Angle:**

**Cwt Angle:** Positive

**Non-HPI Governor:**

NEICO

**Model:** see LANCAIR  
**Trade Name:**  
**Aircraft T.C./STC:**  
**Propeller Model:**  
**Propeller T.C.:**  
**Blade Model(s):**  
**Prop Diameter:**

### Prop Setup:

**Ref. Radius:**  
**Reverse Angle:**  
**Low Pitch Angle:**  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

### Hartzell Approved Items:

**IDS No.:** 693      **Rev.:** -      **DM Date:** 10/01/1992

**Modifier:**  
**Engine Model:**  
**Power:** HP @ RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:**

**Feather/High Angle:**

**Cwt Angle:**

**Non-HPI Governor:**

# HARTZELL

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**NEIVA**

**Model:** L-42  
**Trade Name:** REGENTE  
**Aircraft T.C./STC:** NA  
**Propeller Model:** BHC-C2YF-1BF  
**Propeller T.C.:**  
**Blade Model(s):** F7663  
**Prop Diameter:** 80"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 15.0 +-0.1  
**Stud Protrusion** 1.120 +-0.030

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number     | Description              | Quantity | Qty Per | Comments                 |
|---------------|-----------------|--------------------------|----------|---------|--------------------------|
| BLADE         | F7663           | PCP:BLADE UNIT, ALUMINUM | 2        | Prop    |                          |
| SPINNER       | 835-23          | SPINNER ASSEMBLY         | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2429-3        | STUD, MOUNTING, 1/2-20   | 6        | Prop    |                          |
| OVERHAUL KIT  | BHC-C2YF-1BF-OH | O/H KIT                  | 1        | Prop    | For aftermarket use only |

**IDS No.:** 312      **Rev.:** 1      **IC**      **Date:** 07/07/2015

**Modifier:**  
**Engine Model:** IO-360-D  
**Power:** 210 HP @ 2800 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 28.5 +-1.5  
**Cwt Angle:**

**Non-HPI Governor:**

**NEW GLASAIR/NEW GLASTAR**

**Model:** SPORTSMAN 2+2  
**Trade Name:**  
**Aircraft T.C./STC:** Experimental  
**Propeller Model:** HC-C2YR-1BF  
**Propeller T.C.:** P-920  
**Blade Model(s):** F8477-4  
 F8477-4\*3  
**Prop Diameter:** 80"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 10.0 +-0.2  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:** NEW GLASAIR

**Hartzell Approved Items:**

| Item Type     | Item Number    | Description                   | Quantity | Qty Per | Comments                 |
|---------------|----------------|-------------------------------|----------|---------|--------------------------|
| PROPELLER     | C2R00061       | HC-C2YR-1BF/F8477-4[*3]/SM19  | 1        | A/C     |                          |
| PROPELLER     | C2R00081       | HC-C2YR-1BF/F8477-4/SM19      | 1        | A/C     |                          |
| BLADE         | F8477-4        | PCP:BLADE UNIT, ALUM [1,1,1]  | 2        | Prop    |                          |
| BLADE         | F8477-4*3      | PCP:BLADE UNIT, ALUM [3,24,1] | 2        | Prop    |                          |
| SPIN MTG KIT  | A-2476-19      | SPINNER - MTG KIT             | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2067         | STUD, MOUNTING, 1/2-20        | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-C2YR-1BF-OH | O/H KIT                       | 1        | Prop    | For aftermarket use only |

**IDS No.:** 1984      **Rev.:** 2      **IC**      **Date:** 07/07/2015

**Modifier:**  
**Engine Model:** IO-360-A1F6  
**Power:** 180 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 31.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

# HARTZELL

## APPLICATION GUIDE

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### NEW GLASAIR/NEW GLASTAR

**Model:** GS-1 GLASTAR  
**Trade Name:**  
**Aircraft T.C./STC:** Experimental  
**Propeller Model:** HC-F2YR-1F  
**Propeller T.C.:** P27EA  
**Blade Model(s):** F8477-4  
**Prop Diameter:** 80"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 10.0 +-0.2  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

#### Hartzell Approved Items:

**IDS No.:** 1960      **Rev.:** 2      **IC Date:** 03/15/2017

**Modifier:**

**Engine Model:** IO-360-B1B

**Power:** 180 HP @ 2700 RPM

**Placard/Restr:**

**Notes:** Must use C-1576 damper assembly

**Startlock Angle:** NA

**Feather/High Angle:** 31.0 +-1.0

**Cwt Angle:**

**Non-HPI Governor:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>             | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|--------------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | F2R00080           | HC-F2YR-1F/F8477-4/SM16/C-1576 | 1               | A/C            |                          |
| BLADE            | F8477-4            | PCP:BLADE UNIT, ALUM [1,1,1]   | 2               | Prop           |                          |
| SPINNER          | 836-60             | SPINNER ASSEMBLY               | 1               | Prop           |                          |
| SPINNER          | 836-60P            | SPINNER ASSEMBLY               | 1               | Prop           |                          |
| SPINNER          | C-3568             | SPINNER ASSEMBLY               | 1               | Prop           |                          |
| SPINNER          | C-3568-P           | SPINNER ASSEMBLY               | 1               | Prop           |                          |
| GOVERNOR         | S-1-10             | GOVERNOR ASSEMBLY, S-1-10      | 1               | A/C            |                          |
| SPIN MTG KIT     | A-2476-16          | SPINNER - MTG KIT              | 1               | Prop           |                          |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20         | 6               | Prop           |                          |
| DAMPER           | C-1576             | DAMPER ASSEMBLY                | 1               | Prop           |                          |
| OVERHAUL KIT     | HC-F2YR-1F-OH      | O/H KIT                        | 1               | Prop           | For aftermarket use only |

# HARTZELL

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### NEW GLASAIR/NEW GLASTAR

**Model:** GS-1  
**Trade Name:** GLASTAR  
**Aircraft T.C./STC:** Experimental  
**Propeller Model:** HC-C2YR-1BF  
**Propeller T.C.:** P-920  
**Blade Model(s):** F8477-4  
**Prop Diameter:** 80

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 10.0 +-0.2  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

#### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>             | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|--------------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | C2R00074           | HC-C2YR-1BF/F8477-4/SM16/C1576 | 1               | A/C            |                          |
| BLADE            | F8477-4            | PCP:BLADE UNIT, ALUM [1,1,1]   | 2               | Prop           |                          |
| SPINNER          | 836-60             | SPINNER ASSEMBLY               | 1               | A/C            |                          |
| SPINNER          | 836-60P            | SPINNER ASSEMBLY               | 1               | A/C            |                          |
| SPINNER          | C-3568             | SPINNER ASSEMBLY               | 1               | A/C            |                          |
| SPINNER          | C-3568-P           | SPINNER ASSEMBLY               | 1               | A/C            |                          |
| SPIN MTG KIT     | A-2476-16          | SPINNER - MTG KIT              | 1               | Prop           |                          |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20         | 6               | Prop           |                          |
| DAMPER           | C-1576             | DAMPER ASSEMBLY                | 1               | Prop           |                          |
| OVERHAUL KIT     | HC-C2YR-1BF-OH     | O/H KIT                        | 1               | Prop           | For aftermarket use only |

**IDS No.:** 2480      **Rev.:** 1      **IC Date:** 07/07/2015

**Modifier:**  
**Engine Model:** IO-360-B1B  
**Power:** 180 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:** Must use C-1576 damper assembly

**Startlock Angle:** NA  
**Feather/High Angle:** 30.9 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

### NOMAD

**Model:** see AEROSPACE TECHNOLOGIES  
**Trade Name:**  
**Aircraft T.C./STC:**  
**Propeller Model:**  
**Propeller T.C.:**  
**Blade Model(s):**  
**Prop Diameter:**

#### Prop Setup:

**Ref. Radius:**  
**Reverse Angle:**  
**Low Pitch Angle:**  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

#### Hartzell Approved Items:

**IDS No.:** 694      **Rev.:** -      **DM Date:** 10/01/1992

**Modifier:**  
**Engine Model:**  
**Power:** HP @ RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:**  
**Feather/High Angle:**  
**Cwt Angle:**

**Non-HPI Governor:**

# HARTZELL

## APPLICATION GUIDE

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**NORD**

**Model:** 262 FRAKES  
**Trade Name:** MOHAWK (FRAKES)  
**Aircraft T.C./STC:** STC-SA2369SW  
**Propeller Model:** HC-B5MP-3(A)  
**Propeller T.C.:** P44GL

**IDS No.:** 695      **Rev.:** 1      **D**      **Date:** 01/07/2011

**Modifier:** FRAKES  
**Engine Model:** PT6A-45A  
**Power:** 1120 HP @ 1700 RPM  
**Placard/Restr:** The required placards, restrictions and recommendations for ground operations are as follows: A) Stabilized ground operation below 900 RPM prohibited. B) Stabilized operation in range 1150 to 1400 RPM prohibited. 1) Recommendation - Taxi between 900 and 1150 Rpm in order to keep operation to a minimum through 1150 to 1400 RPM range in cross winds and tail winds, advance through 1150 RPM only after aircraft is lined up on runway for takeoff.

**Blade Model(s):** M10282A+6  
M10282AB+6  
M10282AN+6  
M10282ANB+6  
**Prop Diameter:** 111.3" TO 111.0"

**Notes:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** -3.75 +/-0.25  
**Low Pitch Angle:** 21.0 +/-0.2  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 90.0 +/-1.0  
**Cwt Angle:** Positive

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type          | Item Number | Description                       | Quantity | Qty Per | Comments                 |
|--------------------|-------------|-----------------------------------|----------|---------|--------------------------|
| BLADE              | M10282A+6   | BLADE UNIT, ALUMINUM              | 5        | Prop    |                          |
| BLADE              | M10282AB+6  | BLADE, 4E1601-7 BOOT              | 5        | Prop    |                          |
| BLADE              | M10282AN+6  | PCP:BLADE UNIT, ALUMINUM          | 5        | Prop    |                          |
| BLADE              | M10282ANB+6 | PCP:BLADE UNIT, ALUM 4H1601-7     | 5        | Prop    |                          |
| SPINNER            | D-3434-8P   | SPINNER ASSEMBLY                  | 1        | Prop    |                          |
| SPIN MTG KIT       | B-3384-4    | BOLT, 1/4-28, HEX HEAD            | 10       | Prop    |                          |
| SPIN MTG KIT       | B-3808-4    | NUT,HEX,SELF-LOCKING              | 10       | Prop    |                          |
| SPIN MTG KIT       | B-3851-0463 | WASHER                            | 10       | Prop    |                          |
| COUNTERWEIGHT SLUG | B-3386-14H  | BOLT,3/8-24,HEX HEAD              | 1        | Blade   |                          |
| COUNTERWEIGHT SLUG | B-3834-0632 | WASHER                            | 2        | Blade   |                          |
| COUNTERWEIGHT SLUG | B-4015      | PCP:SLUG, COUNTERWEIGHT           | 1        | Blade   |                          |
| DE-ICER            | 4H1601-7    | DE-ICE BOOT                       | 1        | Blade   | Supersedes 7931-4E1601-7 |
| MTG BOLT/STUD      | B-3339      | BOLT, MOUNTING, 9/16-18, 12 POINT | 8        | Prop    |                          |
| MISC ACCES         | 101058      | SHIM, MOUNTING, PROPELLER         | 1        | Prop    | Ref SB275                |
| MISC ACCES         | A-3044      | BLOCK, BETA FEEDBACK- ASSEMBLY    | 2        | Prop    |                          |

# HARTZELL

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**NORMAN AEROPLANE**

IDS No.: 698      Rev.: 2      D      Date: 06/04/2013

**Model:** NAC 6  
**Trade Name:** FIELDMASTER  
**Aircraft T.C./STC:** Unknown  
**Propeller Model:** HC-B3TN-3  
**Propeller T.C.:** P15EA  
**Blade Model(s):** T10282+4  
    T10282N+4  
**Prop Diameter:** 106.5"

**Modifier:**  
**Engine Model:** PT6A-34AG  
**Power:** 750 HP @ 2200 RPM  
**Placard/Restr:**  
**Notes:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** -8.0 +-0.5  
**Low Pitch Angle:** 18.0 +-0.1  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 87.0 +-1.0  
**Cwt Angle:** Positive

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u>               | <u>Item Number</u> | <u>Description</u>                | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|--------------------------------|--------------------|-----------------------------------|-----------------|----------------|-----------------|
| BLADE                          | T10282+4           | BLADE                             | 3               | Prop           |                 |
| BLADE                          | T10282N+4          | PCP:BLADE UNIT, ALUM [1,1,1]      | 3               | Prop           |                 |
| SPINNER                        | C-3065             | SPINNER ASSEMBLY                  | 1               | Prop           |                 |
| COUNTERWEIGHT SLUG A-3039      |                    | SLUG, COUNTERWEIGHT               | 1               | Blade          |                 |
| COUNTERWEIGHT SLUG A-890-6     |                    | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          | Primary         |
| COUNTERWEIGHT SLUG A-890-8     |                    | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          | Alternate       |
| COUNTERWEIGHT SLUG A-890-9     |                    | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          | Alternate       |
| COUNTERWEIGHT SLUG B-3384-21H  |                    | BOLT, 1/4-28, HEX HEAD            | 2               | Blade          |                 |
| COUNTERWEIGHT SLUG B-3851-0432 |                    | WASHER                            | 2               | Blade          | Optional        |
| COUNTERWEIGHT SLUG B-3851-0463 |                    | WASHER                            | 2               | Blade          | Optional        |
| MTG BOLT/STUD                  | B-3339             | BOLT, MOUNTING, 9/16-18, 12 POINT | 8               | Prop           |                 |



# HARTZELL

## APPLICATION GUIDE

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### NORMAN AEROPLANE

**Model:** NAC 6-65  
**Trade Name:** FIELDMASTER  
**Aircraft T.C./STC:** Unknown  
**Propeller Model:** HC-B5MP-3C  
**Propeller T.C.:** P44GL  
**Blade Model(s):** M10876A  
                           M10876AN  
                           M10876ANS  
                           M10876AS  
**Prop Diameter:** 111.0" TO 110.7"

#### Prop Setup:

**Ref. Radius:** 42  
**Reverse Angle:** -11.0 +-0.5  
**Low Pitch Angle:** 16.5 +-0.1  
**Stud Protrusion**

**IDS No.:** 699      **Rev.:** 3      **IC Date:** 06/09/2016  
**Modifier:** AERO NOR TEC  
**Engine Model:** PT6A-65AG  
**Power:** 1230 HP @ 1700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 79.0 +-0.5  
**Cwt Angle:** 2.5 +-1.0

#### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:**

#### Hartzell Approved Items:

| <u>Item Type</u>   | <u>Item Number</u> | <u>Description</u>                | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|--------------------|--------------------|-----------------------------------|-----------------|----------------|--------------------------|
| PROPELLER          | B5P10107S          | HC-B5MP-3C/M10876ANS/D-3434-8P    | 1               | A/C            |                          |
| PROPELLER          | B5P10107SKD        | HC-B5MP-3C/M10876ANS/D-3434-8P    | 1               | A/C            |                          |
| BLADE              | M10876A            | BLADE UNIT, ALUMINUM              | 5               | Prop           |                          |
| BLADE              | M10876AN           | IDS ITEM, BLADE                   | 5               | Prop           |                          |
| BLADE              | M10876ANS          | PCP:BLADE UNIT, ALUMINUM          | 5               | Prop           |                          |
| BLADE              | M10876AS           | BLADE UNIT, ALUMINUM              | 5               | Prop           |                          |
| SPINNER            | D-3434-8           | SPINNER ASSEMBLY                  | 1               | Prop           |                          |
| SPINNER            | D-3434-8P          | SPINNER ASSEMBLY                  | 1               | Prop           |                          |
| SPIN MTG KIT       | B-3384-4           | BOLT, 1/4-28, HEX HEAD            | 10              | Prop           |                          |
| SPIN MTG KIT       | B-3808-4           | NUT, HEX, SELF-LOCKING            | 10              | Prop           |                          |
| SPIN MTG KIT       | B-3851-0463        | WASHER                            | 10              | Prop           |                          |
| COUNTERWEIGHT SLUG | B-3343             | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          |                          |
| COUNTERWEIGHT SLUG | B-3386-14H         | BOLT, 3/8-24, HEX HEAD            | 2               | Blade          |                          |
| COUNTERWEIGHT SLUG | B-3834-0632        | WASHER                            | 2               | Blade          |                          |
| MTG BOLT/STUD      | B-3339             | BOLT, MOUNTING, 9/16-18, 12 POINT | 8               | Prop           |                          |
| OVERHAUL KIT       | HC-B5MP-3C-OH      | O/H KIT                           | 1               | Prop           | For aftermarket use only |

# HARTZELL

NUVENTURE

**Model:**

**Trade Name:** VENTURE  
**Aircraft T.C./STC:** Experimental  
**Propeller Model:** BHC-C2YF-1BF  
**Propeller T.C.:** P-920

**Blade Model(s):** F7694D-6T

**Prop Diameter:** 70"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 17.0 +-0.2  
**Stud Protrusion:** 1.450 +-0.030

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>          | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|-----------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | C2F00029           | BHC-C2YF-1BF/F7694D-6T/SM14 | 1               | A/C            |                          |
| BLADE            | F7694D-6T          | PCP:BLADE UNIT, ALUMINUM    | 2               | Prop           |                          |
| SPINNER          | A-2295-P           | SPINNER ASSEMBLY            | 1               | Prop           |                          |
| SPIN MTG KIT     | A-2476-14          | SPINNER - MTG KIT           | 1               | Prop           |                          |
| MTG BOLT/STUD    | A-2429-4           | STUD, MOUNTING, 1/2-20      | 6               | Prop           |                          |
| OVERHAUL KIT     | BHC-C2YF-1BF-OH    | O/H KIT                     | 1               | Prop           | For aftermarket use only |

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**IDS No.:** 1831      **Rev.:** 1      **IC Date:** 07/07/2015

**Modifier:**

**Engine Model:** IO-550-N6B

**Power:** 310 HP @ 2700 RPM

**Placard/Restr:** Avoid continuous ground operation between 1850 and 2100 rpm.

**Notes:**

**Startlock Angle:** NA

**Feather/High Angle:** 37.0 +-1.0

**Cwt Angle:**

**Non-HPI Governor:**

# HARTZELL

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### OSPREY AIRCRAFT

**Model:** GP4  
**Trade Name:**  
**Aircraft T.C./STC:** Experimental  
**Propeller Model:** HC-M2YR-1BFPX  
**Propeller T.C.:**

**Blade Model(s):** F7497X  
**Prop Diameter:** 74"-72"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 14.5 +-0.2  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 3571      **Rev.:** -      **IC**      **Date:** 10/25/2017

**Modifier:**  
**Engine Model:** IO-360-A1A  
**Power:** 200 HP @ 2700 RPM  
**Placard/Restr:** Continuous operation is prohibited above 24 inches of manifold pressure between 2350 and 2550 RPM.  
**Notes:** Remove TC, PC and assembly serial number from hub, PC from blades.

**Startlock Angle:** NA  
**Feather/High Angle:** 35.0 +-2.0  
**Cwt Angle:**

**Non-HPI Governor:**

#### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>            | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|-------------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | M2R20015X          | HC-M2YR-1BFPX/F7497X/SM4      | 1               | A/C            |                          |
| BLADE            | F7497X             | PCP:BLADE UNIT, ALUM [6,1,11] | 2               | Prop           |                          |
| SPINNER          | C-3568             | SPINNER ASSEMBLY              | 1               | Prop           |                          |
| SPINNER          | C-3568-P           | SPINNER ASSEMBLY              | 1               | Prop           |                          |
| SPIN MTG KIT     | A-2476-4           | SPINNER - MTG KIT             | 1               | Prop           |                          |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20        | 6               | Prop           |                          |
| OVERHAUL KIT     | HC-M2YR-1BF-OH     | O/H KIT                       | 1               | Prop           | For aftermarket use only |

### OSPREY AIRCRAFT

**Model:** GP4  
**Trade Name:**  
**Aircraft T.C./STC:** Experimental  
**Propeller Model:** HC-M2YR-1BF  
**Propeller T.C.:** P43GL

**Blade Model(s):** F7666A-2  
**Prop Diameter:** 74"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 14.4 +-0.2  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 1201      **Rev.:** 1      **IC**      **Date:** 07/07/2015

**Modifier:**  
**Engine Model:** IO-360-A1A  
**Power:** 200 HP @ 2700 RPM  
**Placard/Restr:** Avoid continuous operation between 2000 and 2350 RPM

**Notes:**  
**Startlock Angle:** NA  
**Feather/High Angle:** 29.0 +-2.0  
**Cwt Angle:**

**Non-HPI Governor:**

#### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>       | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|--------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | M2R00031           | HC-M2YR-1BF/F7666A-2/SM4 | 1               | A/C            |                          |
| BLADE            | F7666A-2           | PCP:BLADE UNIT, ALUMINUM | 2               | Prop           |                          |
| SPINNER          | C-3568             | SPINNER ASSEMBLY         | 1               | Prop           |                          |
| SPINNER          | C-3568-P           | SPINNER ASSEMBLY         | 1               | Prop           |                          |
| SPIN MTG KIT     | A-2476-4           | SPINNER - MTG KIT        | 1               | Prop           |                          |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20   | 6               | Prop           |                          |
| OVERHAUL KIT     | HC-M2YR-1BF-OH     | O/H KIT                  | 1               | Prop           | For aftermarket use only |

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# HARTZELL

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PACIFIC AEROSPACE

IDS No.: 1897 Rev.: 4 IC Date: 11/25/2019

**Model:** FU24(A)-950/-954  
**Trade Name:**  
**Aircraft T.C./STC:** 3/21E/1 (New Zealand)  
**Propeller Model:** HC-B3TN-3D  
**Propeller T.C.:** P15EA  
**Blade Model(s):** T10282N  
**Prop Diameter:** 102"

**Modifier:** SUPER AIR LTD  
**Engine Model:** PT6A-11AG  
**Power:** 550 HP @ 2200 RPM  
**Placard/Restr:**  
**Notes:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** -14.5 +-0.5  
**Low Pitch Angle:** 18.0 +-0.1  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 87.0 +-0.5  
**Cwt Angle:** -1.5 to Positive

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type                      | Item Number   | Description                       | Quantity | Qty Per | Comments                 |
|--------------------------------|---------------|-----------------------------------|----------|---------|--------------------------|
| PROPELLER                      | B3N10441      | HC-B3TN-3D/T10282N                | 1        | A/C     |                          |
| PROPELLER                      | B3N10441KD    | HC-B3TN-3D/T10282N                | 1        | A/C     |                          |
| PROPELLER                      | B3N10441S     | HC-B3TN-3D/T10282N/C-3065         | 1        | A/C     |                          |
| PROPELLER                      | B3N10441SKD   | HC-B3TN-3D/T10282N/C-3065         | 1        | A/C     |                          |
| PROPELLER                      | B3N10444SKD   | HC-B3TN-3D/T10282N/C-3065-P       | 1        | A/C     |                          |
| BLADE                          | T10282N       | PCP:BLADE UNIT, ALUMINUM          | 3        | Prop    |                          |
| SPINNER                        | C-3065        | SPINNER ASSEMBLY                  | 1        | Prop    |                          |
| SPINNER                        | C-3065-P      | SPINNER ASSEMBLY                  | 1        | Prop    |                          |
| SPIN MTG KIT                   | B-3384-4H     | BOLT, 1/4-28, HEX HEAD            | 12       | Prop    |                          |
| SPIN MTG KIT                   | B-3808-4      | NUT, HEX, SELF-LOCKING            | 12       | Prop    |                          |
| SPIN MTG KIT                   | B-3851-0432   | WASHER                            | 24       | Prop    |                          |
| COUNTERWEIGHT SLUG A-3039      |               | SLUG, COUNTERWEIGHT               | 1        | Blade   |                          |
| COUNTERWEIGHT SLUG A-890-6     |               | PCP:SLUG, COUNTERWEIGHT           | 1        | Blade   | Primary                  |
| COUNTERWEIGHT SLUG A-890-8     |               | PCP:SLUG, COUNTERWEIGHT           | 1        | Blade   | Alternate                |
| COUNTERWEIGHT SLUG A-890-9     |               | PCP:SLUG, COUNTERWEIGHT           | 1        | Blade   | Alternate                |
| COUNTERWEIGHT SLUG B-3384-21H  |               | BOLT, 1/4-28, HEX HEAD            | 2        | Blade   |                          |
| COUNTERWEIGHT SLUG B-3851-0432 |               | WASHER                            | 2        | Blade   | Optional                 |
| COUNTERWEIGHT SLUG B-3851-0463 |               | WASHER                            | 2        | Blade   |                          |
| MTG BOLT/STUD                  | B-3339        | BOLT, MOUNTING, 9/16-18, 12 POINT | 8        | Prop    |                          |
| MISC ACCES                     | A-3044        | BLOCK, BETA FEEDBACK- ASSEMBLY    | 1        | Prop    |                          |
| OVERHAUL KIT                   | HC-B3TN-3D-OH | O/H KIT                           | 1        | Prop    | For aftermarket use only |

# HARTZELL

## APPLICATION GUIDE

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PACIFIC AEROSPACE

IDS No.: 2934 Rev.: 3 D Date: 02/12/2014

Model: 750XL  
Trade Name: P-750 XSTOL  
Aircraft T.C./STC: A50CE  
Propeller Model: HC-E4N-3P  
Propeller T.C.: P10NE

Modifier:  
Engine Model: PT6A-34  
Power: 750 HP @ 2006 RPM  
Placard/Restr: Avoid continuous ground operation between 450 and 1050 RPM. Operation below 450 RPM is acceptable with the propeller feathered.

Blade Model(s): D9900  
Prop Diameter: 100" Minimum

Notes:

### Prop Setup:

Ref. Radius: 30  
Reverse Angle: -10.0 +/- 0.5  
Low Pitch Angle: 19.3 +/- 0.1  
Stud Protrusion

Startlock Angle:  
Feather/High Angle: 89.5+/-0.5  
Cwt Angle:

### Non-HPI Items:

Non-HPI Spinner:

Non-HPI Governor:

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>             | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|--------------------------------|-----------------|----------------|-----------------|
| PROPELLER        | E4N00170           | HC-E4N-3P/D9900                | 1               | A/C            |                 |
| PROPELLER        | E4N00170KD         | HC-E4N-3P/D9900                | 1               | A/C            |                 |
| PROPELLER        | E4N00170S          | HC-E4N-3P/D9900/D-630-3P       | 1               | A/C            |                 |
| PROPELLER        | E4N00170SKD        | HC-E4N-3P/D9900/D-630-3P       | 1               | A/C            |                 |
| BLADE            | D9900              | PCP:BLADE UNIT, ALUMINUM       | 4               | Prop           |                 |
| SPINNER          | D-630-3            | SPINNER ASSEMBLY               | 1               | Prop           |                 |
| SPINNER          | D-630-3P           | SPINNER ASSEMBLY               | 1               | Prop           |                 |
| SPIN MTG KIT     | B-3384-2H          | BOLT, 1/4-28, HEX HEAD         | 8               | Prop           |                 |
| SPIN MTG KIT     | B-3851-0463        | WASHER                         | 8               | Prop           |                 |
| COUNTERWEIGHT    | C-472-1            | PCP:COUNTERWEIGHT              | 1               | Blade          |                 |
| MTG BOLT/STUD    | B-3339-1           | BOLT,MOUNTING,9/16-18,12 POINT | 8               | Prop           |                 |
| MISC ACCES       | A-3044             | BLOCK, BETA FEEDBACK- ASSEMBLY | 1               | Prop           |                 |

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### PACIFIC AEROSPACE

**Model:** CT4A, CT4B  
**Trade Name:**  
**Aircraft T.C./STC:** Unknown  
**Propeller Model:** BHC-C2YF-1BF  
**Propeller T.C.:** P-920  
**Blade Model(s):** F7663  
**Prop Diameter:** 76"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 11.0 +-0.2  
**Stud Protrusion** 1.120 +-0.030

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number     | Description              | Quantity | Qty Per | Comments                 |
|---------------|-----------------|--------------------------|----------|---------|--------------------------|
| PROPELLER     | C2F00011        | BHC-C2YF-1BF/F7663/SM14  | 1        | A/C     |                          |
| BLADE         | F7663           | PCP:BLADE UNIT, ALUMINUM | 2        | Prop    |                          |
| SPINNER       | 835-23          | SPINNER ASSEMBLY         | 1        | Prop    |                          |
| SPINNER       | 835-44          | SPINNER ASSEMBLY         | 1        | Prop    |                          |
| SPIN MTG KIT  | A-2476-14       | SPINNER - MTG KIT        | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2429-3        | STUD, MOUNTING, 1/2-20   | 6        | Prop    |                          |
| OVERHAUL KIT  | BHC-C2YF-1BF-OH | O/H KIT                  | 1        | Prop    | For aftermarket use only |

**IDS No.:** 701      **Rev.:** 1      **IC**    **Date:** 07/07/2015

**Modifier:**  
**Engine Model:** IO-360-D, -H, -HB  
**Power:** 210 HP @ 2800 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 30.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

### PACIFIC AEROSPACE

**Model:** CT4E  
**Trade Name:**  
**Aircraft T.C./STC:** Unknown  
**Propeller Model:** HC-C3YR-4BF  
**Propeller T.C.:** P25EA  
  
**Blade Model(s):** FC7663-2R\*1  
**Prop Diameter:** 76"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.4 +-0.2  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number    | Description                   | Quantity | Qty Per | Comments                 |
|---------------|----------------|-------------------------------|----------|---------|--------------------------|
| PROPELLER     | C3R00235       | HC-C3YR-4BF/FC7663-2R[*1]/SM9 | 1        | A/C     |                          |
| PROPELLER     | C3R00235KD     | HC-C3YR-4BF/FC7663-2R[*1]/SM9 | 1        | A/C     |                          |
| BLADE         | FC7663-2R*1    | PCP:BLADE UNIT, B-3202H-2 CWT | 3        | Prop    |                          |
| SPINNER       | D-5205         | SPINNER ASSEMBLY              | 1        | Prop    |                          |
| GOVERNOR      | V4-3           | GOVERNOR ASSEMBLY, V-4-( )    | 1        | A/C     |                          |
| SPIN MTG KIT  | A-2476-9       | SPINNER - MTG KIT             | 1        | Prop    |                          |
| COUNTERWEIGHT | B-3202H-2      | PCP:COUNTERWEIGHT             | 1        | Blade   | Blade Component          |
| MTG BOLT/STUD | A-2067         | STUD, MOUNTING, 1/2-20        | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-C3YR-4BF-OH | O/H KIT                       | 1        | Prop    | For aftermarket use only |

**IDS No.:** 700      **Rev.:** 1      **IC**    **Date:** 07/15/2015

**Modifier:**  
**Engine Model:** AEIO-540-L1B5  
**Power:** 300 HP @ 2700 RPM  
**Placard/Restr:** Do not exceed 23 inches Hg manifold pressure below 2200 RPM.

**Notes:**  
**Startlock Angle:** NA  
**Feather/High Angle:** 32.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

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**PACIFIC AEROSPACE (FLETCHER)**

IDS No.: 707      Rev.: 3      IC      Date: 07/15/2015

**Model:** FU-24 CRESCO 08-600

**Trade Name:**

**Aircraft T.C./STC:** A-11 (NZ)

**Propeller Model:** HC-B3TN-3D

**Propeller T.C.:** P15EA

**Blade Model(s):** T10282N

**Prop Diameter:** 102.0"

**Prop Setup:**

**Ref. Radius:** 30

**Reverse Angle:** -14.5 +-0.5

**Low Pitch Angle:** 18.0 +-0.1

**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Modifier:**

**Engine Model:** PT6A-34 Ag

**Power:** 750 HP @ 2200 RPM

**Placard/Restr:**

**Notes:** Minimum weight is 3200 lbs.

**Startlock Angle:** NA

**Feather/High Angle:** 87.0 +-0.5

**Cwt Angle:** -1.5 TO POS.

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u>               | <u>Item Number</u> | <u>Description</u>                | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|--------------------------------|--------------------|-----------------------------------|-----------------|----------------|--------------------------|
| PROPELLER                      | B3N10440           | HC-B3TN-3D/T10282N                | 1               | A/C            |                          |
| PROPELLER                      | B3N10440KD         | HC-B3TN-3D/T10282N                | 1               | A/C            |                          |
| BLADE                          | T10282N            | PCP:BLADE UNIT, ALUMINUM          | 3               | Prop           |                          |
| SPINNER                        | C-3065             | SPINNER ASSEMBLY                  | 1               | Prop           |                          |
| SPIN MTG KIT                   | B-3384-4H          | BOLT, 1/4-28, HEX HEAD            | 12              | Prop           |                          |
| SPIN MTG KIT                   | B-3808-4           | NUT, HEX, SELF-LOCKING            | 12              | Prop           |                          |
| SPIN MTG KIT                   | B-3851-0432        | WASHER                            | 24              | Prop           |                          |
| COUNTERWEIGHT SLUG A-3039      |                    | SLUG, COUNTERWEIGHT               | 1               | Blade          |                          |
| COUNTERWEIGHT SLUG A-890-6     |                    | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          | Primary                  |
| COUNTERWEIGHT SLUG A-890-8     |                    | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          | Alternate                |
| COUNTERWEIGHT SLUG A-890-9     |                    | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          | Alternate                |
| COUNTERWEIGHT SLUG B-3384-21H  |                    | BOLT, 1/4-28, HEX HEAD            | 2               | Blade          |                          |
| COUNTERWEIGHT SLUG B-3851-0432 |                    | WASHER                            | 2               | Blade          | Optional                 |
| COUNTERWEIGHT SLUG B-3851-0463 |                    | WASHER                            | 2               | Blade          | Optional                 |
| MTG BOLT/STUD                  | B-3339             | BOLT, MOUNTING, 9/16-18, 12 POINT | 8               | Prop           |                          |
| OVERHAUL KIT                   | HC-B3TN-3D-OH      | O/H KIT                           | 1               | Prop           | For aftermarket use only |



# HARTZELL

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### PACIFIC AEROSPACE (FLETCHER)

**Model:** FU-24, FU-24A  
**Trade Name:**  
**Aircraft T.C./STC:** 4A12  
**Propeller Model:** BHC-92ZF-1D1  
**Propeller T.C.:** P-892  
**Blade Model(s):** 8847  
8847N  
**Prop Diameter:** 88" NO CUT OFF

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.0 +-0.2  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 703      **Rev.:** 1      **D**      **Date:** 01/07/2011

**Modifier:**

**Engine Model:** O-470-M, -N  
**Power:** 240 HP @ 2610 RPM  
**Placard/Restr:**

**Notes:** TC specifies HC-92ZF-1B1, which is not a valid model.

**Startlock Angle:** NA  
**Feather/High Angle:** 24.4 +-1.0  
**Cwt Angle:** Positive

**Non-HPI Governor:** WOODWARD

#### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>       | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|--------------------------|-----------------|----------------|-----------------|
| BLADE            | 8847               | PCP:BLADE UNIT, ALUMINUM | 2               | Prop           |                 |
| BLADE            | 8847N              | PCP:BLADE UNIT, ALUMINUM | 2               | Prop           |                 |
| SPINNER          | 835-13             | SPINNER ASSEMBLY         | 1               | Prop           |                 |
| SPINNER          | 837-3              | SPINNER ASSEMBLY         | 1               | Prop           |                 |
| SPINNER          | 837-4              | IDS Item                 | 1               | Prop           |                 |

### PACIFIC AEROSPACE (FLETCHER)

**Model:** FU-24, FU-24A  
**Trade Name:**  
**Aircraft T.C./STC:** 4A12  
**Propeller Model:** HC-A2MVF-1A  
**Propeller T.C.:** P24EA  
**Blade Model(s):** MV8833N  
**Prop Diameter:** 88" TO 86"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 10.5 +-0.2  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 702      **Rev.:** -      **DM**      **Date:** 05/16/1998

**Modifier:**

**Engine Model:** O-470-E  
**Power:** 225 HP @ 2600 RPM  
**Placard/Restr:**

**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 27.0 +-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:** WOODWARD

#### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>           | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|------------------------------|-----------------|----------------|-----------------|
| BLADE            | MV8833N            | PCP:BLADE UNIT, ALUM [1,1,1] | 2               | Prop           |                 |
| SPINNER          | 835-13             | SPINNER ASSEMBLY             | 1               | Prop           |                 |

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### PACIFIC AEROSPACE (FLETCHER)

**Model:** FU-24-950  
**Trade Name:**  
**Aircraft T.C./STC:** Unknown  
**Propeller Model:** HC-C3YR-1RF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** F8475R  
**Prop Diameter:** 86" TO 80"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.0 +-0.1  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 705      **Rev.:** 2      **IC Date:** 07/16/2015

**Modifier:**  
**Engine Model:** IO-720-A1A  
**Power:** 400 HP @ 2650 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 30.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

#### Hartzell Approved Items:

| Item Type     | Item Number    | Description                | Quantity | Qty Per | Comments                 |
|---------------|----------------|----------------------------|----------|---------|--------------------------|
| PROPELLER     | C3R00090       | HC-C3YR-1RF/F8475R         | 1        | A/C     |                          |
| PROPELLER     | C3R00090KD     | HC-C3YR-1RF/F8475R         | 1        | A/C     |                          |
| BLADE         | F8475R         | PCP:BLADE UNIT, ALUMINUM   | 3        | Prop    |                          |
| SPINNER       | 835-36         | SPINNER ASSEMBLY           | 1        | Prop    |                          |
| GOVERNOR      | F4-1D          | GOVERNOR ASSEMBLY, F-4-( ) | 1        | A/C     |                          |
| MTG BOLT/STUD | A-2067         | STUD, MOUNTING, 1/2-20     | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-C3YR-1RF-OH | O/H KIT                    | 1        | Prop    | For aftermarket use only |

### PACIFIC AEROSPACE (FLETCHER)

**Model:** FU-24-950, -954  
**Trade Name:**  
**Aircraft T.C./STC:** Unknown  
**Propeller Model:** HC-C3YR-1RF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** F8483  
F8483-2Q  
**Prop Diameter:** 86" TO 80"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.0 +-0.2  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 706      **Rev.:** 2      **IC Date:** 07/16/2015

**Modifier:**  
**Engine Model:** IO-720-A1A, A1B  
**Power:** 400 HP @ 2650 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 25.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

#### Hartzell Approved Items:

| Item Type     | Item Number    | Description                | Quantity | Qty Per | Comments                 |
|---------------|----------------|----------------------------|----------|---------|--------------------------|
| PROPELLER     | C3R00104       | HC-C3YR-1RF/F8483          | 1        | A/C     |                          |
| PROPELLER     | C3R00104KD     | HC-C3YR-1RF/F8483          | 1        | A/C     |                          |
| BLADE         | F8483          | PCP:BLADE UNIT, ALUMINUM   | 1        | Prop    |                          |
| BLADE         | F8483-2Q       | PCP:BLADE UNIT, ALUMINUM   | 1        | Prop    |                          |
| SPINNER       | 835-36         | SPINNER ASSEMBLY           | 1        | Prop    |                          |
| GOVERNOR      | F4-1D          | GOVERNOR ASSEMBLY, F-4-( ) | 1        | A/C     |                          |
| MTG BOLT/STUD | A-2067         | STUD, MOUNTING, 1/2-20     | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-C3YR-1RF-OH | O/H KIT                    | 1        | Prop    | For aftermarket use only |

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**PACIFIC AEROSPACE (FLETCHER)**

**Model:** FU-24-954, FU-24A-954

**Trade Name:**

**Aircraft T.C./STC:** A9PC

**Propeller Model:** HC-C3YR-1RF

**Propeller T.C.:** P25EA

**Blade Model(s):** F8475  
F8475R

**Prop Diameter:** 86" TO 84"

### Prop Setup:

**Ref. Radius:** 30

**Reverse Angle:** NA

**Low Pitch Angle:**

**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 704      **Rev.:** -      **DM Date:** 10/01/1992

**Modifier:**

**Engine Model:** IO-720-A1A, -A1B

**Power:** 400 HP @ 2650 RPM

**Placard/Restr:**

**Notes:**

**Startlock Angle:** NA

**Feather/High Angle:**

**Cwt Angle:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>           | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|------------------------------|-----------------|----------------|-----------------|
| BLADE            | F8475              | PCP:BLADE UNIT, ALUM [1,1,1] | 3               | Prop           |                 |
| BLADE            | F8475R             | PCP:BLADE UNIT, ALUMINUM     | 3               | Prop           |                 |
| GOVERNOR         | F4-1D              | GOVERNOR ASSEMBLY, F-4-( )   | 1               | A/C            |                 |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20       | 6               | Prop           |                 |

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PACIFIC AEROSPACE LTD.

IDS No.: 1743      Rev.: 7      IC Date: 08/31/2020

**Model:** 750XL  
**Trade Name:** P-750 XSTOL  
**Aircraft T.C./STC:** A50CE  
**Propeller Model:** HC-B3TN-3D  
**Propeller T.C.:** P15EA  
**Blade Model(s):** T10282NS+4  
 T10282NSK+4  
**Prop Diameter:** 106" minimum

**Modifier:**  
**Engine Model:** PT6A-34  
**Power:** 750 HP @ 2006 RPM  
**Placard/Restr:**  
**Notes:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** -8.1 +-0.5  
**Low Pitch Angle:** 18.5 +-0.5  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 86.3 +-1.5  
**Cwt Angle:** Positive

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type                      | Item Number   | Description                       | Quantity | Qty Per | Comments                 |
|--------------------------------|---------------|-----------------------------------|----------|---------|--------------------------|
| PROPELLER                      | B3N10460      | HC-B3TN-3D/T10282NS+4             | 1        | A/C     |                          |
| PROPELLER                      | B3N10460KD    | HC-B3TN-3D/T10282NS+4             | 1        | A/C     |                          |
| PROPELLER                      | B3N10460S     | HC-B3TN-3D/T10282NS+4/C3065-1P    | 1        | A/C     |                          |
| PROPELLER                      | B3N10460SKD   | HC-B3TN-3D/T10282NS+4/C3065-1P    | 1        | A/C     |                          |
| PROPELLER                      | B3N10475S     | HC-B3TN-3D/T10282NSK+4/3065-1P    | 1        | A/C     |                          |
| PROPELLER                      | B3N10475SKD   | HC-B3TN-3D/T10282NSK+4/3065-1P    | 1        | A/C     |                          |
| BLADE                          | T10282NS+4    | PCP:BLADE UNIT, ALUMINUM          | 3        | Prop    |                          |
| BLADE                          | T10282NSK+4   | PCP:BLADE UNIT, ALUMINUM          | 3        | Prop    |                          |
| SPINNER                        | C-3065-1      | SPINNER ASSEMBLY                  | 1        | Prop    |                          |
| SPINNER                        | C-3065-1P     | SPINNER ASSEMBLY                  | 1        | A/C     |                          |
| SPIN MTG KIT                   | B-3384-4H     | BOLT, 1/4-28, HEX HEAD            | 12       | Prop    |                          |
| SPIN MTG KIT                   | B-3808-4      | NUT,HEX,SELF-LOCKING              | 12       | Prop    |                          |
| SPIN MTG KIT                   | B-3851-0432   | WASHER                            | 24       | Prop    |                          |
| SP MT KIT DE-ICE               | A-2070-7      | SCREW, 1/4-28, BUTTON HEAD        | 12       | Prop    |                          |
| SP MT KIT DE-ICE               | B-3808-4      | NUT,HEX,SELF-LOCKING              | 12       | Prop    |                          |
| SP MT KIT DE-ICE               | B-3851-0432   | WASHER                            | 12       | Prop    |                          |
| SP MT KIT DE-ICE               | B-7077-52     | BELLEVILLE SPRING WASHER          | 24       | Prop    |                          |
| COUNTERWEIGHT SLUG A-3039      |               | SLUG, COUNTERWEIGHT               | 1        | Blade   |                          |
| COUNTERWEIGHT SLUG A-890-6     |               | PCP:SLUG, COUNTERWEIGHT           | 1        | Blade   | Primary                  |
| COUNTERWEIGHT SLUG A-890-8     |               | PCP:SLUG, COUNTERWEIGHT           | 1        | Blade   | Alternate                |
| COUNTERWEIGHT SLUG A-890-9     |               | PCP:SLUG, COUNTERWEIGHT           | 1        | Blade   | Alternate                |
| COUNTERWEIGHT SLUG B-3384-21H  |               | BOLT, 1/4-28, HEX HEAD            | 2        | Blade   |                          |
| COUNTERWEIGHT SLUG B-3851-0432 |               | WASHER                            | 2        | Blade   | Optional                 |
| COUNTERWEIGHT SLUG B-3851-0463 |               | WASHER                            | 2        | Blade   | Optional                 |
| DE-ICER                        | 104112        | DE-ICE BOOT                       | 1        | Blade   |                          |
| DE-ICE KIT PR                  | 104116        | DE-ICE KIT (ONE PROP)             | 1        | Prop    |                          |
| DE-ICE KIT A/F                 | 104128        | AIRFRAME DE-ICE KIT               | 1        | A/C     |                          |
| MTG BOLT/STUD                  | B-3339        | BOLT, MOUNTING, 9/16-18, 12 POINT | 8        | Prop    |                          |
| MISC ACCES                     | A-3044        | BLOCK, BETA FEEDBACK- ASSEMBLY    | 1        | Prop    |                          |
| OVERHAUL KIT                   | HC-B3TN-3D-OH | O/H KIT                           | 1        | Prop    | For aftermarket use only |

# HARTZELL

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### PAKISTAN AERONAUTICAL

**Model:** MUSHSHAK see AMF PAKISTON  
**Trade Name:**  
**Aircraft T.C./STC:**  
**Propeller Model:**  
**Propeller T.C.:**  
**Blade Model(s):**  
**Prop Diameter:**

#### Prop Setup:

**Ref. Radius:**  
**Reverse Angle:**  
**Low Pitch Angle:**  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

#### Hartzell Approved Items:

**IDS No.:** 708      **Rev.:** -      **DM Date:** 10/01/1992

**Modifier:**  
**Engine Model:**  
**Power:** HP @ RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:**  
**Feather/High Angle:**  
**Cwt Angle:**

**Non-HPI Governor:**

### PERFORMANCE AIRCRAFT

**Model:** FORMULA GT  
**Trade Name:**  
**Aircraft T.C./STC:** Experimental  
**Propeller Model:** HC-C2YK-1BF  
**Propeller T.C.:** P-920  
**Blade Model(s):** F8475J-4  
**Prop Diameter:** 78" TO 80"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.5 +-0.2  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

#### Hartzell Approved Items:

**IDS No.:** 1765      **Rev.:** 1      **IC Date:** 07/07/2015

**Modifier:**  
**Engine Model:** IO-540 SERIES  
**Power:** 300 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 38.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>           | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|------------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | C2K00116           | HC-C2YK-1BF/F8475J-4/SM8     | 1               | A/C            |                          |
| BLADE            | F8475J-4           | PCP:BLADE UNIT, ALUM [1,1,1] | 2               | Prop           |                          |
| SPIN MTG KIT     | A-2476-8           | SPINNER - MTG KIT            | 1               | Prop           |                          |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20       | 6               | Prop           |                          |
| OVERHAUL KIT     | HC-C2YK-1BF-OH     | O/H KIT                      | 1               | Prop           | For aftermarket use only |

# HARTZELL

## APPLICATION GUIDE

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PIAGGIO

IDS No.: 3244 Rev.: 6 IC Date: 10/12/2015

**Model:** P-180 (left side)  
**Trade Name:** AVANTI  
**Aircraft T.C./STC:** A59EU  
**Propeller Model:** HC-E5N-3A  
**Propeller T.C.:** P20NE

**Modifier:**  
**Engine Model:** PT6A-66 CTR-ROTATING  
**Power:** 850 HP @ 1800 RPM  
**Placard/Restr:** Stabilized ground operation prohibited between 600 and 900 RPM. The propeller may be operated when feathered at or below 600 RPM. Stabilized ground operation is prohibited between 1250 and 1550 RPM. Refer to Airplane Flight Manual for additional limitations.

**Blade Model(s):** HE8492  
**Prop Diameter:** 86.5

**Notes:** Use Aeroshell 22 grease per Manual 202A. No yellow station stripe.

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** -8.0 +/-0.5  
**Low Pitch Angle:** 19.0 +/-0.1  
**Stud Protrusion**

**Startlock Angle:** N/A  
**Feather/High Angle:** 87.6 +/-0.5  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type          | Item Number    | Description                    | Quantity | Qty Per | Comments  |
|--------------------|----------------|--------------------------------|----------|---------|---|
| PROPELLER          | E5N00082KD     | HC-E5N-3A/HE8492               | 1        | A/C     |   |
| BLADE              | HE8492         | PCP:BLADE UNIT, ALUMINUM 3,3,1 | 5        | Prop    |   |
| SPINNER            | D-5527-1P      | SPINNER ASSEMBLY               | 1        | Prop    |   |
| SPIN MTG KIT       | B-3339-1       | BOLT,MOUNTING,9/16-18,12 POINT | 8        | Prop    |   |
| SPIN MTG KIT       | B-3384-1H      | BOLT, 1/4-28, HEX HEAD         | 10       | Prop    |   |
| SPIN MTG KIT       | B-3851-0432    | WASHER                         | 10       | Prop    |   |
| SPIN MTG KIT       | C-3317-257-5   | O - RING                       | 3        | Prop    |   |
| COUNTERWEIGHT      | C-472-12       | PCP:COUNTERWEIGHT              | 1        | Blade   |   |
| COUNTERWEIGHT SLUG | 104706         | PCP:SLUG, COUNTERWEIGHT        | 2        | Blade   |   |
| COUNTERWEIGHT SLUG | A-1712         | BOLT,3/8-24,HEX HEAD           | 2        | Blade   |   |
| COUNTERWEIGHT SLUG | A-2043-1       | NUT,3/8-24,HEX,SELF-LOCKING    | 2        | Blade   |   |
| OVERHAUL KIT       | HC-E5N-3A-OH   | O/H KIT/D-5527-1P SPINNER      | 1        | Prop    | For aftermarket use only  |
| OVERHAUL KIT       | HC-E5N-3A-OH*2 | O/H KIT/D-5527-1P SPINNER      | 1        | Prop    | For aftermarket use only (SAME AS HC-E5N-3A-OH + (3) B-3819 SCREWS) |

# HARTZELL

## APPLICATION GUIDE

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PIAGGIO

IDS No.: 3243 Rev.: 7 IC Date: 01/05/2016

**Model:** P-180 (Right Side)  
**Trade Name:** AVANTI  
**Aircraft T.C./STC:** A59EU  
**Propeller Model:** HC-E5N-3AL  
**Propeller T.C.:** P20NE

**Modifier:**  
**Engine Model:** PT6A-66  
**Power:** 850 HP @ 1800 RPM  
**Placard/Restr:** Stabilized ground operation prohibited between 600 and 900 RPM. The propeller may be operated when feathered at or below 600 RPM. Stabilized ground operation is prohibited between 1250 and 1550 RPM. Refer to Airplane Flight Manual for additional limitations.

**Blade Model(s):** LE8492  
**Prop Diameter:** 86.5"

**Notes:** Use Aeroshell 22 grease per Manual 202A. No yellow station stripe.

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** -8.0 +-0.5  
**Low Pitch Angle:** 19.0 +-0.1  
**Stud Protrusion**

**Startlock Angle:** N/A  
**Feather/High Angle:** 87.6 +-0.5  
**Cwt Angle:**

### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| Item Type          | Item Number    | Description                    | Quantity | Qty Per | Comments  |
|--------------------|----------------|--------------------------------|----------|---------|---|
| PROPELLER          | E5N00172KD     | HC-E5N-3AL/LE8492              | 1        | A/C     |   |
| BLADE              | LE8492         | PCP:BLADE UNIT, ALUMINUM 3,3,1 | 5        | Prop    |   |
| SPINNER            | D-5527-1LP     | SPINNER ASSEMBLY               | 1        | Prop    |   |
| SPIN MTG KIT       | B-3384-1H      | BOLT, 1/4-28, HEX HEAD         | 10       | Prop    |   |
| SPIN MTG KIT       | B-3851-0432    | WASHER                         | 10       | Prop    |   |
| SPIN MTG KIT       | C-3317-257-5   | O - RING                       | 3        | Prop    |   |
| COUNTERWEIGHT      | C-472-12       | PCP:COUNTERWEIGHT              | 1        | Blade   |   |
| COUNTERWEIGHT SLUG | 104706         | PCP:SLUG, COUNTERWEIGHT        | 2        | Blade   |   |
| COUNTERWEIGHT SLUG | A-1712         | BOLT,3/8-24,HEX HEAD           | 2        | Blade   |   |
| COUNTERWEIGHT SLUG | A-2043-1       | NUT,3/8-24,HEX,SELF-LOCKING    | 2        | Blade   |   |
| MTG BOLT/STUD      | B-3339-1       | BOLT,MOUNTING,9/16-18,12 POINT | 8        | Prop    |   |
| OVERHAUL KIT       | HC-E5N-3A-OH   | O/H KIT/D-5527-1P SPINNER      | 1        | Prop    | For aftermarket use only  |
| OVERHAUL KIT       | HC-E5N-3A-OH*2 | O/H KIT/D-5527-1P SPINNER      | 1        | Prop    | For aftermarket use only (SAME AS HC-E5N-3A-OH + (3) B-3819 SCREWS) |

# HARTZELL

## APPLICATION GUIDE 159

**PIAGGIO**

**Model:** P-136-L1  
**Trade Name:** ROYAL GULL  
**Aircraft T.C./STC:** A813  
**Propeller Model:** HC-83X20-2L, HC-A3X20-2L, HC-83X20-2CL  
**Propeller T.C.:** P6EA  
**Blade Model(s):**  
**Prop Diameter:** 84.6" TO 84"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 15.0 +-0.1  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>         | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|----------------------------|-----------------|----------------|-----------------|
| SPINNER          | 835-11S            | SPINNER ASSEMBLY           | 1               | Prop           |                 |
| MTG BOLT/STUD    | A-63B              | PCP: NUT, SHAFT, 20 SPLINE | 1               | Prop           |                 |
| MTG BOLT/STUD    | A-63-B             | NUT,SHAFT,20 SPLINE        | 1               | Prop           |                 |

**IDS No.:** 2220      **Rev.:** -      **DM Date:** 11/20/2003

**Modifier:**  
**Engine Model:** GO-480-B, -B1B, -B1D  
**Power:** 270 HP @ 2182 RPM  
**Placard/Restr:**

**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 83.0 +-1.0  
**Cwt Angle:** Positive

**Non-HPI Governor:**

**PIAGGIO**

**Model:** P-136-L1  
**Trade Name:** ROYAL GULL  
**Aircraft T.C./STC:** A813  
**Propeller Model:** HC-83V20-2L, HC-A3V20-2L, HC-83V20-2CL  
**Propeller T.C.:** P6EA  
**Blade Model(s):** LV8433N  
**Prop Diameter:** 84.6" TO 84"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 15.0 +-0.1  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>         | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|----------------------------|-----------------|----------------|-----------------|
| BLADE            | LV8433N            | BLADE                      | 3               | Prop           |                 |
| SPINNER          | 835-11S            | SPINNER ASSEMBLY           | 1               | Prop           |                 |
| MTG BOLT/STUD    | A-63B              | PCP: NUT, SHAFT, 20 SPLINE | 1               | Prop           |                 |
| MTG BOLT/STUD    | A-63-B             | NUT,SHAFT,20 SPLINE        | 1               | Prop           |                 |

**IDS No.:** 2221      **Rev.:** -      **DM Date:** 11/20/2003

**Modifier:**  
**Engine Model:** GO-480-B, -B1B, -B1D  
**Power:** 270 HP @ 2182 RPM  
**Placard/Restr:**

**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 83.0 +-1.0  
**Cwt Angle:** Positive

**Non-HPI Governor:**



# HARTZELL

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PIAGGIO

**Model:** P-136-L1  
**Trade Name:** ROYAL GULL  
**Aircraft T.C./STC:** A813  
**Propeller Model:** HC-A3MV20-2L  
**Propeller T.C.:** P6EA  
**Blade Model(s):** LMV8433N  
**Prop Diameter:** 84.6" TO 84"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 15.0 +-0.1  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>         | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|----------------------------|-----------------|----------------|-----------------|
| BLADE            | LMV8433N           | PCP:BLADE UNIT, ALUMINUM   | 3               | Prop           |                 |
| SPINNER          | 835-11S            | SPINNER ASSEMBLY           | 1               | Prop           |                 |
| MTG BOLT/STUD    | A-63B              | PCP: NUT, SHAFT, 20 SPLINE | 1               | Prop           |                 |
| MTG BOLT/STUD    | A-63-B             | NUT,SHAFT,20 SPLINE        | 1               | Prop           |                 |

**IDS No.:** 712      **Rev.:** 1      **D**      **Date:** 01/07/2011

**Modifier:**  
**Engine Model:** GO-480-B, -B1B, -B1D  
**Power:** 270 HP @ 2182 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 83.0 +-1.0  
**Cwt Angle:** Positive

**Non-HPI Governor:**

PIAGGIO

**Model:** P-136-L1  
**Trade Name:** ROYAL GULL  
**Aircraft T.C./STC:** Unknown  
**Propeller Model:** HC-A3X20-2L  
**Propeller T.C.:** P913  
**Blade Model(s):**  
**Prop Diameter:**

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 15.0 +-0.1  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

### Hartzell Approved Items:

**IDS No.:** 2390      **Rev.:** -      **DM**      **Date:** 12/01/2003

**Modifier:**  
**Engine Model:** GO-480-G1D6  
**Power:** HP @ RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 83.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

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**PIAGGIO**

**Model:** P-136-L1  
**Trade Name:** ROYAL GULL  
**Aircraft T.C./STC:** Unknown  
**Propeller Model:** HC-A3V20-2L  
**Propeller T.C.:** P6EA  
**Blade Model(s):** LV8433N  
**Prop Diameter:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 15.0 +-0.1  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type | Item Number | Description | Quantity | Qty Per | Comments |
|-----------|-------------|-------------|----------|---------|----------|
| BLADE     | LV8433N     | BLADE       | 3        | Prop    |          |

**IDS No.:** 2391      **Rev.:** -      **DM Date:** 12/01/2003

**Modifier:**  
**Engine Model:** GO-480-G1D6  
**Power:** HP @ RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 83.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

**PIAGGIO**

**Model:** P-136-L2  
**Trade Name:** ROYAL GULL  
**Aircraft T.C./STC:** A-813  
**Propeller Model:** HC-83X20-2CL, HC-83X20-2L, HC-A3X20-2L  
**Propeller T.C.:** P6EA  
**Blade Model(s):**  
**Prop Diameter:** 88" TO 87"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 18.0 +-0.2  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type          | Item Number | Description                | Quantity | Qty Per | Comments |
|--------------------|-------------|----------------------------|----------|---------|----------|
| SPINNER            | 835-11S     | SPINNER ASSEMBLY           | 1        | Prop    |          |
| COUNTERWEIGHT SLUG | A-890-5     | PCP:SLUG, COUNTERWEIGHT    | 1        | Blade   |          |
| COUNTERWEIGHT SLUG | B-3384-9H   | BOLT, 1/4-28, HEX HEAD     | 3        | Blade   |          |
| MTG BOLT/STUD      | A-63B       | PCP: NUT, SHAFT, 20 SPLINE | 1        | Prop    |          |
| MTG BOLT/STUD      | A-63-B      | NUT,SHAFT,20 SPLINE        | 1        | Prop    |          |

**IDS No.:** 2222      **Rev.:** -      **DM Date:** 11/20/2003

**Modifier:**  
**Engine Model:** GSO-480-A1A6  
**Power:** 340 HP @ 2182 RPM  
**Placard/Restr:**

**Notes:** Blade configuration corresponds with diameter limits in aircraft TCDS.

**Startlock Angle:** NA  
**Feather/High Angle:** 83.0 +-1.0  
**Cwt Angle:** Positive

**Non-HPI Governor:**

# HARTZELL

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PIAGGIO

**Model:** P-136-L2  
**Trade Name:** ROYAL GULL  
**Aircraft T.C./STC:** A-813  
**Propeller Model:** HC-A3V20-2CL, HC-A3V20-2L  
**Propeller T.C.:** P6EA  
**Blade Model(s):** LV9333N  
 LV9333N-5  
**Prop Diameter:** 88" TO 87"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 18.0 +-0.2  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type                    | Item Number | Description                | Quantity | Qty Per | Comments |
|------------------------------|-------------|----------------------------|----------|---------|----------|
| BLADE                        | LV9333N     | BLADE                      | 3        | Prop    |          |
| BLADE                        | LV9333N-5   | BLADE                      | 3        | Prop    |          |
| SPINNER                      | 835-11S     | SPINNER ASSEMBLY           | 1        | Prop    |          |
| COUNTERWEIGHT SLUG A-890-5   |             | PCP:SLUG, COUNTERWEIGHT    | 1        | Blade   |          |
| COUNTERWEIGHT SLUG B-3384-9H |             | BOLT, 1/4-28, HEX HEAD     | 3        | Blade   |          |
| MTG BOLT/STUD                | A-63B       | PCP: NUT, SHAFT, 20 SPLINE | 1        | Prop    |          |
| MTG BOLT/STUD                | A-63-B      | NUT,SHAFT,20 SPLINE        | 1        | Prop    |          |

**IDS No.:** 2318      **Rev.:** -      **DM Date:** 11/23/2003

**Modifier:**  
**Engine Model:** GSO-480-A1A6  
**Power:** 340 HP @ 2182 RPM  
**Placard/Restr:**

**Notes:** Blade configuration corresponds with diameter limits in aircraft TCDS.

**Startlock Angle:** NA  
**Feather/High Angle:** 83.0 +-1.0  
**Cwt Angle:** Positive

**Non-HPI Governor:**

PIAGGIO

**Model:** P-136-L2  
**Trade Name:** ROYAL GULL  
**Aircraft T.C./STC:** A-813  
**Propeller Model:** HC-A3MV20-2L  
**Propeller T.C.:** P6EA  
**Blade Model(s):** LMV9333N-5  
**Prop Diameter:** 88" TO 87"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 18.0 +-0.2  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type                    | Item Number     | Description                | Quantity | Qty Per | Comments                 |
|------------------------------|-----------------|----------------------------|----------|---------|--------------------------|
| PROPELLER                    | A3210097        | HC-A3MV20-2L/LMV9333N-5    | 2        | A/C     |                          |
| BLADE                        | LMV9333N-5      | PCP:BLADE UNIT, ALUMINUM   | 3        | Prop    |                          |
| SPINNER                      | 835-11S         | SPINNER ASSEMBLY           | 1        | Prop    |                          |
| COUNTERWEIGHT SLUG A-890-5   |                 | PCP:SLUG, COUNTERWEIGHT    | 1        | Blade   |                          |
| COUNTERWEIGHT SLUG B-3384-9H |                 | BOLT, 1/4-28, HEX HEAD     | 3        | Blade   |                          |
| MTG BOLT/STUD                | A-63B           | PCP: NUT, SHAFT, 20 SPLINE | 1        | Prop    |                          |
| MTG BOLT/STUD                | A-63-B          | NUT,SHAFT,20 SPLINE        | 1        | Prop    |                          |
| OVERHAUL KIT                 | HC-A3MV20-2L-OH | O/H KIT                    | 1        | Prop    | For aftermarket use only |

**IDS No.:** 713      **Rev.:** 2      **IC Date:** 07/07/2015

**Modifier:**  
**Engine Model:** GSO-480-A1A6  
**Power:** 340 HP @ 2182 RPM  
**Placard/Restr:**

**Notes:** Blade configuration corresponds with diameter limits in aircraft TCDS.

**Startlock Angle:** NA  
**Feather/High Angle:** 83.0 +-1.0  
**Cwt Angle:** Positive

**Non-HPI Governor:**

# HARTZELL

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PIAGGIO

**Model:** P-136-L2  
**Trade Name:** ROYAL GULL  
**Aircraft T.C./STC:** SA5944NM  
**Propeller Model:** HC-A3VF-5AL  
**Propeller T.C.:** P6EA  
**Blade Model(s):** LV9333N-5  
**Prop Diameter:**

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** 19.3 +-0.5  
**Low Pitch Angle:** 18.0 +-0.2  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u> | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|--------------------|-----------------|----------------|-----------------|
| BLADE            | LV9333N-5          | BLADE              | 3               | Prop           |                 |

**IDS No.:** 2392      **Rev.:** -      **DM Date:** 12/01/2003

**Modifier:**  
**Engine Model:** GSO-480-B2C6  
**Power:** HP @ RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 83.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

PIAGGIO

**Model:** P-136-L2  
**Trade Name:** ROYAL GULL  
**Aircraft T.C./STC:** Unknown  
**Propeller Model:** HC-83XF-3AL  
**Propeller T.C.:** P6EA

**Blade Model(s):**  
**Prop Diameter:** 88" TO 87"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** -19.3 +-0.5  
**Low Pitch Angle:** NA  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>            | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|-------------------------------|-----------------|----------------|-----------------|
| SPINNER          | 835-39             | SPINNER ASSEMBLY              | 1               | Prop           |                 |
| MTG BOLT/STUD    | A-1328-1           | BOLT,MOUNTING,1/2-20,12 POINT | 6               | Prop           |                 |

**IDS No.:** 2304      **Rev.:** -      **DM Date:** 11/20/2003

**Modifier:**  
**Engine Model:** GSO-480-B2C6  
**Power:** 340 HP @ 2182 RPM  
**Placard/Restr:** "Do not exceed 1500 RPM in reverse"  
"Reverse propellers for water taxi operation only"

**Notes:**

**Startlock Angle:** 18.0 +-0.2  
**Feather/High Angle:** 83.0 +-1.0  
**Cwt Angle:** Positive

**Non-HPI Governor:**

# HARTZELL

## APPLICATION GUIDE

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PIAGGIO

**Model:** P-136-L2  
**Trade Name:** ROYAL GULL  
**Aircraft T.C./STC:** Unknown  
**Propeller Model:** HC-A3MVF-5AL  
**Propeller T.C.:** P6EA

**IDS No.:** 1582      **Rev.:** 2      **IC Date:** 07/07/2015

**Modifier:**  
**Engine Model:** GSO-480-B2C6  
**Power:** 340 HP @ 2182 RPM  
**Placard/Restr:** "Do not exceed 1500 RPM in reverse"  
"Reverse propellers for water taxi operation only"

**Blade Model(s):** LMV9333N-5  
**Prop Diameter:** 88" TO 87"

**Notes:**

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** -19.3 +-0.5  
**Low Pitch Angle:** NA  
**Stud Protrusion**

**Startlock Angle:** 18.0 +-0.2  
**Feather/High Angle:** 83.0 +-1.0  
**Cwt Angle:** Positive

### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| Item Type     | Item Number     | Description                   | Quantity | Qty Per | Comments                 |
|---------------|-----------------|-------------------------------|----------|---------|--------------------------|
| PROPELLER     | A3F10112        | HC-A3MVF-5AL/LMV9333N-5       | 2        | A/C     |                          |
| BLADE         | LMV9333N-5      | PCP:BLADE UNIT, ALUMINUM      | 3        | Prop    |                          |
| SPINNER       | 835-39          | SPINNER ASSEMBLY              | 1        | Prop    |                          |
| MTG BOLT/STUD | A-1328-1        | BOLT,MOUNTING,1/2-20,12 POINT | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-A3MVF-5AL-OH | O/H KIT                       | 1        | Prop    | For aftermarket use only |

PIAGGIO

**Model:** P-149D  
**Trade Name:**  
**Aircraft T.C./STC:** German  
**Propeller Model:** HC-83V20-1F, HC-A3V20-1F  
**Propeller T.C.:** P6EA

**IDS No.:** 2223      **Rev.:** -      **DM Date:** 11/20/2003

**Modifier:** HOFFMANN  
**Engine Model:** GO-480-G1A6,-G1D6, IGO-480-A1B6  
**Power:** 295 HP @ 2182 RPM  
**Placard/Restr:** Avoid continuous operation between 1300 and 1650 rpm, and between 2100 and 2500 rpm.

**Blade Model(s):** V9333C-3  
V9333N-3  
**Prop Diameter:** 90.625"

**Notes:**

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 15.0 +-0.2  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 32.5 +-0.5  
**Cwt Angle:** Positive

### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| Item Type                    | Item Number | Description                | Quantity | Qty Per | Comments |
|------------------------------|-------------|----------------------------|----------|---------|----------|
| BLADE                        | V9333C-3    | BLADE                      | 3        | Prop    |          |
| BLADE                        | V9333N-3    | BLADE                      | 3        | Prop    |          |
| SPINNER                      | 837-17      | SPINNER ASSEMBLY           | 1        | Prop    |          |
| COUNTERWEIGHT SLUG A-890-5   |             | PCP:SLUG, COUNTERWEIGHT    | 1        | Blade   |          |
| COUNTERWEIGHT SLUG B-3384-9H |             | BOLT, 1/4-28, HEX HEAD     | 2        | Blade   |          |
| MTG BOLT/STUD                | A-63B       | PCP: NUT, SHAFT, 20 SPLINE | 1        | Prop    |          |
| MTG BOLT/STUD                | A-63-B      | NUT,SHAFT,20 SPLINE        | 1        | Prop    |          |

# HARTZELL

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**PIAGGIO**

**Model:** P-149D  
**Trade Name:**  
**Aircraft T.C./STC:** German  
**Propeller Model:** HC-A3MV20-1F  
**Propeller T.C.:** P6EA

**IDS No.:** 714      **Rev.:** 2      **IC Date:** 07/07/2015  
**Modifier:** HOFFMANN  
**Engine Model:** GO-480-G1A6,-G1D6, IGO-480-A1B6  
**Power:** 295 HP @ 2182 RPM  
**Placard/Restr:** Avoid continuous operation between 1300 and 1650 rpm, and between 2100 and 2500 rpm.

**Blade Model(s):** MV9333N-3  
**Prop Diameter:** 90.625"

**Notes:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 15.0 +/-0.2  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 32.5 +/-0.5  
**Cwt Angle:** Positive

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type                    | Item Number     | Description                | Quantity | Qty Per | Comments                 |
|------------------------------|-----------------|----------------------------|----------|---------|--------------------------|
| PROPELLER                    | A3210050        | HC-A3MV20-1F/MV9333N-3     | 1        | A/C     |                          |
| PROPELLER                    | A3210050KD      | HC-A3MV20-1F/MV9333N-3     | 1        | A/C     |                          |
| BLADE                        | MV9333N-3       | PCP:BLADE UNIT, ALUMINUM   | 3        | Prop    |                          |
| SPINNER                      | 837-17          | SPINNER ASSEMBLY           | 1        | Prop    |                          |
| COUNTERWEIGHT SLUG A-890-5   |                 | PCP:SLUG, COUNTERWEIGHT    | 1        | Blade   |                          |
| COUNTERWEIGHT SLUG B-3384-9H |                 | BOLT, 1/4-28, HEX HEAD     | 2        | Blade   |                          |
| MTG BOLT/STUD                | A-63B           | PCP: NUT, SHAFT, 20 SPLINE | 1        | Prop    |                          |
| MTG BOLT/STUD                | A-63-B          | NUT,SHAFT,20 SPLINE        | 1        | Prop    |                          |
| OVERHAUL KIT                 | HC-A3MV20-1F-OH | O/H KIT                    | 1        | Prop    | For aftermarket use only |

**PIAGGIO**

**Model:** P-149D  
**Trade Name:**  
**Aircraft T.C./STC:** Unknown  
**Propeller Model:** HC-83X20-1D, HC-A3X20-1D  
**Propeller T.C.:** P6EA  
**Blade Model(s):** 8433

**IDS No.:** 2295      **Rev.:** -      **DM Date:** 11/20/2003  
**Modifier:** HOFFMANN  
**Engine Model:** GO-480-B1A6  
**Power:** 270 HP @ 2182 RPM  
**Placard/Restr:**  
**Notes:**

**Prop Diameter:**  
**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 16.0 +/-0.1  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 33.5 +/-0.5  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type     | Item Number | Description                | Quantity | Qty Per | Comments |
|---------------|-------------|----------------------------|----------|---------|----------|
| BLADE         | 8433        | BLADE                      | 3        | Prop    |          |
| SPINNER       | 837-17      | SPINNER ASSEMBLY           | 1        | Prop    |          |
| GOVERNOR      | B4          | GOVERNOR ASSEMBLY, B-4( )  | 1        | Prop    |          |
| MTG BOLT/STUD | A-63B       | PCP: NUT, SHAFT, 20 SPLINE | 1        | Prop    |          |
| MTG BOLT/STUD | A-63-B      | NUT,SHAFT,20 SPLINE        | 1        | Prop    |          |

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PIAGGIO

**Model:** P-149D  
**Trade Name:**  
**Aircraft T.C./STC:** Unknown  
**Propeller Model:** HC-83V20-1D, HC-A3V20-1D  
**Propeller T.C.:** P6EA  
**Blade Model(s):** V8433  
V8433N

**Prop Diameter:**

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 16.0 +-0.1  
**Stud Protrusion**

**IDS No.:** 2296 **Rev.:** - **DM Date:** 11/20/2003

**Modifier:** HOFFMANN  
**Engine Model:** GO-480-B1A6  
**Power:** 270 HP @ 2182 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 33.5 +-0.5  
**Cwt Angle:**

### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>         | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|----------------------------|-----------------|----------------|-----------------|
| BLADE            | V8433              | BLADE                      | 3               | Prop           |                 |
| BLADE            | V8433N             | BLADE                      | 3               | Prop           |                 |
| SPINNER          | 837-17             | SPINNER ASSEMBLY           | 1               | Prop           |                 |
| GOVERNOR         | B4                 | GOVERNOR ASSEMBLY, B-4-()  | 1               | Prop           |                 |
| MTG BOLT/STUD    | A-63B              | PCP: NUT, SHAFT, 20 SPLINE | 1               | Prop           |                 |
| MTG BOLT/STUD    | A-63-B             | NUT,SHAFT,20 SPLINE        | 1               | Prop           |                 |

PIAGGIO

**Model:** P-149D  
**Trade Name:**  
**Aircraft T.C./STC:** Unknown  
**Propeller Model:** HC-A3MV20-1D  
**Propeller T.C.:** P6EA  
**Blade Model(s):** MV8433N  
**Prop Diameter:**

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 16.0 +-0.1  
**Stud Protrusion**

**IDS No.:** 1054 **Rev.:** 2 **IC Date:** 07/07/2015

**Modifier:** HOFFMANN  
**Engine Model:** GO-480-B1A6  
**Power:** 270 HP @ 2182 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 33.5 +-0.5  
**Cwt Angle:**

### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>           | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|------------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | A3210020           | HC-A3MV20-1D/MV8433N         | 0               |                |                          |
| BLADE            | MV8433N            | PCP:BLADE UNIT, ALUM [1,1,1] | 3               | Prop           |                          |
| SPINNER          | 837-17             | SPINNER ASSEMBLY             | 1               | Prop           |                          |
| GOVERNOR         | B4                 | GOVERNOR ASSEMBLY, B-4-()    | 1               | Prop           |                          |
| MTG BOLT/STUD    | A-63B              | PCP: NUT, SHAFT, 20 SPLINE   | 1               | Prop           |                          |
| MTG BOLT/STUD    | A-63-B             | NUT,SHAFT,20 SPLINE          | 1               | Prop           |                          |
| OVERHAUL KIT     | HC-A3MV20-1D-OH    | O/H KIT                      | 1               | Prop           | For aftermarket use only |

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PIAGGIO

**Model:** P.166 DP1  
**Trade Name:** ROYAL GULL  
**Aircraft T.C./STC:** EASA A.384  
**Propeller Model:** HC-B3TN-3DL  
**Propeller T.C.:** P15EA  
**Blade Model(s):** LT10282-9.5R  
 LT10282N-9.5R  
**Prop Diameter:** 93.0" - 91.0"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** -11.0 +/-0.5  
**Low Pitch Angle:** 18.0 +/- 0.1  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**IDS No.:** 1644      **Rev.:** 2      **D**      **Date:** 06/04/2013

**Modifier:**  
**Engine Model:** PT6A-121  
**Power:** 615 HP @ 1900 RPM  
**Placard/Restr:**  
**Notes:** Build as pusher.

**Startlock Angle:** NA  
**Feather/High Angle:** 85.5 +/-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type                      | Item Number   | Description                       | Quantity | Qty Per | Comments  |
|--------------------------------|---------------|-----------------------------------|----------|---------|-----------|
| BLADE                          | LT10282-9.5R  | BLADE                             | 3        | Prop    |           |
| BLADE                          | LT10282N-9.5R | PCP:BLADE UNIT, ALUMINUM          | 3        | Prop    |           |
| SPINNER                        | D-6929        | SPINNER ASSEMBLY                  | 1        | Prop    |           |
| COUNTERWEIGHT SLUG A-3039      |               | SLUG, COUNTERWEIGHT               | 1        | Blade   |           |
| COUNTERWEIGHT SLUG A-890-6     |               | PCP:SLUG, COUNTERWEIGHT           | 1        | Blade   | Primary   |
| COUNTERWEIGHT SLUG A-890-8     |               | PCP:SLUG, COUNTERWEIGHT           | 1        | Blade   | Alternate |
| COUNTERWEIGHT SLUG A-890-9     |               | PCP:SLUG, COUNTERWEIGHT           | 1        | Blade   | Alternate |
| COUNTERWEIGHT SLUG B-3384-21H  |               | BOLT, 1/4-28, HEX HEAD            | 2        | Blade   |           |
| COUNTERWEIGHT SLUG B-3851-0432 |               | WASHER                            | 2        | Blade   | Optional  |
| COUNTERWEIGHT SLUG B-3851-0463 |               | WASHER                            | 2        | Blade   | Optional  |
| MTG BOLT/STUD                  | B-3339        | BOLT, MOUNTING, 9/16-18, 12 POINT | 8        | Prop    |           |

PIAGGIO

**Model:** P-166  
**Trade Name:** ROYAL GULL  
**Aircraft T.C./STC:** 7A4  
**Propeller Model:** HC-A3X20-2CL, HC-83X20-2CL  
**Propeller T.C.:** P6EA  
**Blade Model(s):**  
**Prop Diameter:** 93.6" TO 92"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 15.0 +/-0.2  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**IDS No.:** 2224      **Rev.:** -      **DM**      **Date:** 11/20/2003

**Modifier:**  
**Engine Model:** GSO-480-B1C6  
**Power:** 340 HP @ 2182 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 83.0 +/-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type                    | Item Number | Description                | Quantity | Qty Per | Comments |
|------------------------------|-------------|----------------------------|----------|---------|----------|
| SPINNER                      | 835-11S     | SPINNER ASSEMBLY           | 1        | Prop    |          |
| COUNTERWEIGHT SLUG A-890-5   |             | PCP:SLUG, COUNTERWEIGHT    | 1        | Blade   |          |
| COUNTERWEIGHT SLUG B-3384-9H |             | BOLT, 1/4-28, HEX HEAD     | 2        | Blade   |          |
| MTG BOLT/STUD                | A-63B       | PCP: NUT, SHAFT, 20 SPLINE | 1        | Prop    |          |
| MTG BOLT/STUD                | A-63-B      | NUT,SHAFT,20 SPLINE        | 1        | Prop    |          |



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PIAGGIO

**Model:** P-166  
**Trade Name:** ROYAL GULL  
**Aircraft T.C./STC:** 7A4  
**Propeller Model:** HC-83V20-2CL  
**Propeller T.C.:** P6EA  
**Blade Model(s):** LV9333N  
**Prop Diameter:** 93.6" TO 92"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 15.0 +-0.2  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 2319      **Rev.:** -      **DM Date:** 11/23/2003

**Modifier:**  
**Engine Model:** GSO-480-B1C6  
**Power:** 340 HP @ 2182 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 83.0 +-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u>             | <u>Item Number</u> | <u>Description</u>         | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------------------|--------------------|----------------------------|-----------------|----------------|-----------------|
| BLADE                        | LV9333N            | BLADE                      | 3               | Prop           |                 |
| SPINNER                      | 835-11S            | SPINNER ASSEMBLY           | 1               | Prop           |                 |
| COUNTERWEIGHT SLUG A-890-5   |                    | PCP:SLUG, COUNTERWEIGHT    | 1               | Blade          |                 |
| COUNTERWEIGHT SLUG B-3384-9H |                    | BOLT, 1/4-28, HEX HEAD     | 2               | Blade          |                 |
| MTG BOLT/STUD                | A-63B              | PCP: NUT, SHAFT, 20 SPLINE | 1               | Prop           |                 |
| MTG BOLT/STUD                | A-63-B             | NUT,SHAFT,20 SPLINE        | 1               | Prop           |                 |

PIAGGIO

**Model:** P-166  
**Trade Name:** ROYAL GULL  
**Aircraft T.C./STC:** 7A4  
**Propeller Model:** HC-A3MV20-2L  
**Propeller T.C.:** P6EA  
**Blade Model(s):** LMV9333N  
**Prop Diameter:** 93.6" TO 92"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 15.0 +-0.2  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 715      **Rev.:** 1      **D Date:** 01/07/2011

**Modifier:**  
**Engine Model:** GSO-480-B1C6  
**Power:** 340 HP @ 2182 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 83.0 +-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u>             | <u>Item Number</u> | <u>Description</u>         | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------------------|--------------------|----------------------------|-----------------|----------------|-----------------|
| BLADE                        | LMV9333N           | PCP:BLADE UNIT, ALUMINUM   | 3               | Prop           |                 |
| SPINNER                      | 835-11S            | SPINNER ASSEMBLY           | 1               | Prop           |                 |
| COUNTERWEIGHT SLUG A-890-5   |                    | PCP:SLUG, COUNTERWEIGHT    | 1               | Blade          |                 |
| COUNTERWEIGHT SLUG B-3384-9H |                    | BOLT, 1/4-28, HEX HEAD     | 2               | Blade          |                 |
| MTG BOLT/STUD                | A-63B              | PCP: NUT, SHAFT, 20 SPLINE | 1               | Prop           |                 |
| MTG BOLT/STUD                | A-63-B             | NUT,SHAFT,20 SPLINE        | 1               | Prop           |                 |

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PIAGGIO

Model: P-166  
Trade Name: ROYAL GULL  
Aircraft T.C./STC: Unknown  
Propeller Model: HC-83VF-5AL, HC-A3VF-5AL  
Propeller T.C.: P6EA  
Blade Model(s):  
Prop Diameter:

### Prop Setup:

Ref. Radius: 30  
Reverse Angle: -18.5 +-0.5  
Low Pitch Angle: NA  
Stud Protrusion

### Non-HPI Items:

Non-HPI Spinner:

### Hartzell Approved Items:

| Item Type     | Item Number | Description                   | Quantity | Qty Per | Comments |
|---------------|-------------|-------------------------------|----------|---------|----------|
| MTG BOLT/STUD | A-1328-1    | BOLT,MOUNTING,1/2-20,12 POINT | 6        | Prop    |          |

IDS No.: 2225 Rev.: - DM Date: 11/20/2003

Modifier:  
Engine Model: GSO-480  
Power: 340 HP @ 2182 RPM  
Placard/Restr:  
Notes:

Startlock Angle: 18.0 +-0.1  
Feather/High Angle: 83.0 +-1.0  
Cwt Angle: Positive

Non-HPI Governor:

PIAGGIO

Model: P-166  
Trade Name: ROYAL GULL  
Aircraft T.C./STC: Unknown  
Propeller Model: HC-A3MVF-5AL  
Propeller T.C.: P6EA  
Blade Model(s): LMV9333N-5  
Prop Diameter:

### Prop Setup:

Ref. Radius: 30  
Reverse Angle: -18.5 +-0.5  
Low Pitch Angle: NA  
Stud Protrusion

### Non-HPI Items:

Non-HPI Spinner:

### Hartzell Approved Items:

| Item Type     | Item Number | Description                   | Quantity | Qty Per | Comments |
|---------------|-------------|-------------------------------|----------|---------|----------|
| BLADE         | LMV9333N-5  | PCP:BLADE UNIT, ALUMINUM      | 3        | Prop    |          |
| MTG BOLT/STUD | A-1328-1    | BOLT,MOUNTING,1/2-20,12 POINT | 6        | Prop    |          |

IDS No.: 717 Rev.: 1 D Date: 01/07/2011

Modifier:  
Engine Model: GSO-480  
Power: 340 HP @ 2182 RPM  
Placard/Restr:  
Notes:

Startlock Angle: 18.0 +-0.1  
Feather/High Angle: 83.0 +-1.0  
Cwt Angle: Positive

Non-HPI Governor:

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PIAGGIO

IDS No.: 716      Rev.: 1      D      Date: 01/07/2011

**Model:** P-166B, C  
**Trade Name:** ROYAL GULL  
**Aircraft T.C./STC:** 7A4  
**Propeller Model:** HC-B3Z30-2BL  
**Propeller T.C.:** P907  
**Blade Model(s):** L10151-8  
L10151N-8  
**Prop Diameter:** 93.5" TO 92"

**Modifier:**  
**Engine Model:** IGSO-540-A1C  
**Power:** 380 HP @ 2182 RPM  
**Placard/Restr:**  
**Notes:**

### Prop Setup:

**Ref. Radius:** 33  
**Reverse Angle:** NA  
**Low Pitch Angle:** 17.0 +/-0.2  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 82.0 +/-0.5  
**Cwt Angle:** Positive

### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u>            | <u>Item Number</u> | <u>Description</u>           | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|-----------------------------|--------------------|------------------------------|-----------------|----------------|-----------------|
| BLADE                       | L10151-8           | BLADE UNIT, ALUMINUM         | 3               | Prop           |                 |
| BLADE                       | L10151N-8          | PCP:BLADE UNIT, ALUMINUM     | 3               | Prop           |                 |
| SPINNER                     | 836-32SPRL         | SPINNER ASSEMBLY             | 1               | Prop           |                 |
| COUNTERWEIGHT SLUG A-619-2  |                    | SLUG, COUNTERWEIGHT          | 2               | Blade          |                 |
| COUNTERWEIGHT SLUG B-3840-8 |                    | SCREW, 10-32, FILLISTER HEAD | 2               | Blade          |                 |
| MTG BOLT/STUD               | B-1894             | PCP: NUT,SHAFT, 30 SPLINE    | 1               | Prop           |                 |

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PIAGGIO

IDS No.: 718      Rev.: 3      IC      Date: 07/15/2015

**Model:** P.166 DL3  
**Trade Name:** ROYAL GULL  
**Aircraft T.C./STC:** 7A4, EASA A.384  
**Propeller Model:** HC-B3TN-3DL  
**Propeller T.C.:** P15EA  
**Blade Model(s):** LT10282-9.5R  
 LT10282N-9.5R  
**Prop Diameter:** 93.0" TO 91.0"

**Modifier:**  
**Engine Model:** LTP-101-600, -600A-1, -600A-1A  
**Power:** 599 HP @ 1950 RPM  
**Placard/Restr:**  
**Notes:** Build as pusher.

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** -11.0 +/-0.5  
**Low Pitch Angle:** 20.0 +/-0.1  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 85.5 +/-0.5  
**Cwt Angle:** Positive

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u>               | <u>Item Number</u> | <u>Description</u>                | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|--------------------------------|--------------------|-----------------------------------|-----------------|----------------|--------------------------|
| PROPELLER                      | B3N10565           | HC-B3TN-3DL/LT10282N-9.5R         | 2               | A/C            |                          |
| BLADE                          | LT10282-9.5R       | BLADE                             | 3               | Prop           |                          |
| BLADE                          | LT10282N-9.5R      | PCP:BLADE UNIT, ALUMINUM          | 3               | Prop           |                          |
| SPINNER                        | D-4033-L           | SPINNER ASSEMBLY                  | 1               | Prop           |                          |
| SPIN MTG KIT                   | B-3384-4H          | BOLT, 1/4-28, HEX HEAD            | 12              | Prop           |                          |
| SPIN MTG KIT                   | B-3808-4           | NUT,HEX,SELF-LOCKING              | 12              | Prop           |                          |
| SPIN MTG KIT                   | B-3851-0432        | WASHER                            | 24              | Prop           |                          |
| COUNTERWEIGHT SLUG A-3039      |                    | SLUG, COUNTERWEIGHT               | 1               | Blade          |                          |
| COUNTERWEIGHT SLUG A-890-6     |                    | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          | Primary                  |
| COUNTERWEIGHT SLUG A-890-8     |                    | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          | Alternate                |
| COUNTERWEIGHT SLUG A-890-9     |                    | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          | Alternate                |
| COUNTERWEIGHT SLUG B-3384-21H  |                    | BOLT, 1/4-28, HEX HEAD            | 2               | Blade          |                          |
| COUNTERWEIGHT SLUG B-3851-0432 |                    | WASHER                            | 2               | Blade          | Optional                 |
| COUNTERWEIGHT SLUG B-3851-0463 |                    | WASHER                            | 2               | Blade          | Optional                 |
| MTG BOLT/STUD                  | B-3339             | BOLT, MOUNTING, 9/16-18, 12 POINT | 8               | Prop           |                          |
| OVERHAUL KIT                   | HC-B3TN-3DL-OH     | O/H KIT                           | 1               | Prop           | For aftermarket use only |

# HARTZELL

## APPLICATION GUIDE 159

PIAGGIO

IDS No.: 719      Rev.: 1      D      Date: 09/09/2011

**Model:** P-180 (left side)  
**Trade Name:** AVANTI  
**Aircraft T.C./STC:** A59EU  
**Propeller Model:** HC-E5N-3  
**Propeller T.C.:** P20NE

**Modifier:**  
**Engine Model:** PT6A-66 CTR-ROTATING  
**Power:** 850 HP @ 2000 RPM  
**Placard/Restr:** Stabilized ground operation between 600 and 900 RPM is prohibited. Operation at or below 600 RPM is permissible with propeller feathered; Stabilized ground operation is prohibited between 1300 and 1600 RPM.

**Blade Model(s):** HE8218  
**Prop Diameter:** 85" TO 84.5"

**Notes:** Use Aeroshell 22 grease per Manual 202A. Refer to Manual 149 for Airworthiness Limitations.

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** -13.0 +-0.5  
**Low Pitch Angle:** 18.0 +-0.1  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 89.0 +-0.5  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u>            | <u>Item Number</u> | <u>Description</u>             | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|-----------------------------|--------------------|--------------------------------|-----------------|----------------|-----------------|
| BLADE                       | HE8218             | BLADE UNIT, ALUMINUM           | 5               | Prop           |                 |
| SPINNER                     | D-5527             | SPINNER ASSEMBLY               | 1               | Prop           |                 |
| SPINNER                     | D-5527-1           | SPINNER ASSEMBLY               | 1               | Prop           |                 |
| SPINNER                     | D-5527-1P          | SPINNER ASSEMBLY               | 1               | Prop           |                 |
| SPINNER                     | D-5527-P           | 5527-P POLISHED SPINNER ASSY   | 1               | Prop           |                 |
| SPIN MTG KIT                | B-3384-1H          | BOLT, 1/4-28, HEX HEAD         | 10              | Prop           |                 |
| SPIN MTG KIT                | B-3851-0432        | WASHER                         | 10              | Prop           |                 |
| COUNTERWEIGHT               | C-472-12           | PCP:COUNTERWEIGHT              | 1               | Blade          |                 |
| COUNTERWEIGHT SLUG A-1712   |                    | BOLT,3/8-24,HEX HEAD           | 1               | Blade          |                 |
| COUNTERWEIGHT SLUG A-1713   |                    | PCP: SLUG, COUNTERWEIGHT       | 10              | Blade          |                 |
| COUNTERWEIGHT SLUG A-2043-1 |                    | NUT,3/8-24,HEX,SELF-LOCKING    | 1               | Blade          |                 |
| MTG BOLT/STUD               | B-3339-1           | BOLT,MOUNTING,9/16-18,12 POINT | 8               | Prop           |                 |

# HARTZELL

## APPLICATION GUIDE 159

PIAGGIO

IDS No.: 720      Rev.: 1      D      Date: 09/09/2011

**Model:** P-180 (right side)  
**Trade Name:** AVANTI  
**Aircraft T.C./STC:** A59EU  
**Propeller Model:** HC-E5N-3L  
**Propeller T.C.:** P20NE

**Modifier:**  
**Engine Model:** PT6A-66  
**Power:** 850 HP @ 2000 RPM  
**Placard/Restr:** Stabilized ground operation between 600 and 900 RPM is prohibited. Operation at or below 600 RPM is permissible with propeller feathered; Stabilized ground operation is prohibited between 1300 and 1600 RPM.

**Blade Model(s):** LE8218  
**Prop Diameter:** 85" TO 84.5"

**Notes:** Use Aeroshell 22 grease per Manual 202A. Refer to Manual 149 for Airworthiness Limitations.

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** -13.0 +/-0.5  
**Low Pitch Angle:** 18.0 +/-0.1  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 89.0 +/-0.5  
**Cwt Angle:**

### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u>            | <u>Item Number</u> | <u>Description</u>             | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|-----------------------------|--------------------|--------------------------------|-----------------|----------------|-----------------|
| BLADE                       | LE8218             | BLADE UNIT, ALUMINUM           | 5               | Prop           |                 |
| SPINNER                     | D-5527-1L          | SPINNER ASSEMBLY               | 1               | Prop           |                 |
| SPINNER                     | D-5527-1LP         | SPINNER ASSEMBLY               | 1               | Prop           |                 |
| SPINNER                     | D-5527L            | IDS Item                       | 1               | Prop           |                 |
| SPINNER                     | D-5527-LP          | 5527-LP POLISHED SPINNER ASSY  | 1               | Prop           |                 |
| SPIN MTG KIT                | B-3384-1H          | BOLT, 1/4-28, HEX HEAD         | 10              | Prop           |                 |
| SPIN MTG KIT                | B-3851-0432        | WASHER                         | 10              | Prop           |                 |
| COUNTERWEIGHT               | C-472-12           | PCP:COUNTERWEIGHT              | 1               | Blade          |                 |
| COUNTERWEIGHT SLUG A-1712   |                    | BOLT,3/8-24,HEX HEAD           | 1               | Blade          |                 |
| COUNTERWEIGHT SLUG A-1713   |                    | PCP: SLUG, COUNTERWEIGHT       | 10              | Blade          |                 |
| COUNTERWEIGHT SLUG A-2043-1 |                    | NUT,3/8-24,HEX,SELF-LOCKING    | 1               | Blade          |                 |
| MTG BOLT/STUD               | B-3339-1           | BOLT,MOUNTING,9/16-18,12 POINT | 8               | Prop           |                 |

# HARTZELL

## APPLICATION GUIDE

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PIAGGIO

IDS No.: 1189 Rev.: 4 IC Date: 09/09/2022

**Model:** P-180 (left side)  
**Trade Name:** AVANTI  
**Aircraft T.C./STC:** A59EU  
**Propeller Model:** HC-E5N-3A  
**Propeller T.C.:** P20NE

**Modifier:**  
**Engine Model:** PT6A-66 CTR-ROTATING  
**Power:** 850 HP @ 2000 RPM  
**Placard/Restr:** Stabilized ground operation between 600 and 900 RPM is prohibited. Operation at or below 600 RPM is permissible with propeller feathered; Stabilized ground operation is prohibited between 1300 and 1600 RPM.

**Blade Model(s):** HE8218  
 HE8218\*1  
**Prop Diameter:** 85" TO 84.5"

**Notes:** Use Aeroshell 22 grease per Manual 202A. No yellow station stripe. Refer to Manual 149 for Airworthiness Limitations.

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** -13.0 +-0.5  
**Low Pitch Angle:** 18.0 +-0.1

**Startlock Angle:** NA  
**Feather/High Angle:** 89.0 +-0.5  
**Cwt Angle:**

**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type                   | Item Number    | Description                    | Quantity | Qty Per | Comments   |
|-----------------------------|----------------|--------------------------------|----------|---------|--|
| PROPELLER                   | E5N00030       | HC-E5N-3A/HE8218               | 1        | A/C     |  |
| PROPELLER                   | E5N00030KD     | HC-E5N-3A/HE8218               | 1        | A/C     |  |
| PROPELLER                   | E5N00040       | HC-E5N-3A/HE8218[*1]           | 1        | A/C     |  |
| PROPELLER                   | E5N00040KD     | HC-E5N-3A/HE8218[*1]           | 1        | A/C     |  |
| BLADE                       | HE8218         | BLADE UNIT, ALUMINUM           | 5        | Prop    |  |
| BLADE                       | HE8218*1       | PCP:BLADE UNIT, ALUM [3,3,1]   | 5        | Prop    |  |
| SPINNER                     | D-5527-1       | SPINNER ASSEMBLY               | 1        | Prop    |  |
| SPINNER                     | D-5527-1P      | SPINNER ASSEMBLY               | 1        | Prop    |  |
| SPIN MTG KIT                | B-3384-1H      | BOLT, 1/4-28, HEX HEAD         | 10       | Prop    |  |
| SPIN MTG KIT                | B-3851-0432    | WASHER                         | 10       | Prop    |  |
| SPIN MTG KIT                | C-3317-257-5   | O - RING                       | 3        | Prop    |  |
| COUNTERWEIGHT               | C-472-12       | PCP:COUNTERWEIGHT              | 1        | Blade   |  |
| COUNTERWEIGHT SLUG A-1712   |                | BOLT,3/8-24,HEX HEAD           | 1        | Blade   |  |
| COUNTERWEIGHT SLUG A-1713   |                | PCP: SLUG, COUNTERWEIGHT       | 10       | Blade   |  |
| COUNTERWEIGHT SLUG A-2043-1 |                | NUT,3/8-24,HEX,SELF-LOCKING    | 1        | Blade   |  |
| MTG BOLT/STUD               | B-3339-1       | BOLT,MOUNTING,9/16-18,12 POINT | 8        | Prop    |  |
| MISC                        | C-3317-340-10  | O - RING                       | 5        | Prop    | To be used only in conjunction with performance of HC-SER-61-104 as an alternate to C-3317-340-8 |
| OVERHAUL KIT                | HC-E5N-3A-OH   | O/H KIT/D-5527-1P SPINNER      | 1        | Prop    | For aftermarket use only   |
| OVERHAUL KIT                | HC-E5N-3A-OH*2 | O/H KIT/D-5527-1P SPINNER      | 1        | Prop    | For aftermarket use only (SAME AS HC-E5N-3A-OH + (3) B-3819 SCREWS)                              |

# HARTZELL

## APPLICATION GUIDE 159

PIAGGIO

IDS No.: 1190 Rev.: 4 IC Date: 09/09/2022

**Model:** P-180 (right side)  
**Trade Name:** AVANTI  
**Aircraft T.C./STC:** A59EU  
**Propeller Model:** HC-E5N-3AL  
**Propeller T.C.:** P20NE

**Modifier:**  
**Engine Model:** PT6A-66  
**Power:** 850 HP @ 2000 RPM  
**Placard/Restr:** Stabilized ground operation between 600 and 900 RPM is prohibited. Operation at or below 600 RPM is permissible with propeller feathered; Stabilized ground operation is prohibited between 1300 and 1600 RPM.

**Blade Model(s):** LE8218  
 LE8218\*1  
**Prop Diameter:** 85" TO 84.5"

**Notes:** Use Aeroshell 22 grease per Manual 202A. No yellow station stripe. Refer to Manual 149 for Airworthiness Limitations.

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** -13.0 +-0.5  
**Low Pitch Angle:** 18.0 +-0.1

**Startlock Angle:** NA  
**Feather/High Angle:** 89.0 +-0.5

**Stud Protrusion**

**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type                   | Item Number    | Description                    | Quantity | Qty Per | Comments   |
|-----------------------------|----------------|--------------------------------|----------|---------|--|
| PROPELLER                   | E5N00120       | HC-E5N-3AL/LE8218              | 1        | A/C     |  |
| PROPELLER                   | E5N00120KD     | HC-E5N-3AL/LE8218              | 1        | A/C     |  |
| PROPELLER                   | E5N00130       | HC-E5N-3AL/LE8218[*1]          | 1        | A/C     |  |
| PROPELLER                   | E5N00130KD     | HC-E5N-3AL/LE8218[*1]          | 1        | A/C     |  |
| BLADE                       | LE8218         | BLADE UNIT, ALUMINUM           | 5        | Prop    |  |
| BLADE                       | LE8218*1       | PCP:BLADE UNIT, ALUM [3,3,1]   | 5        | Prop    |  |
| SPINNER                     | D-5527-1L      | SPINNER ASSEMBLY               | 1        | Prop    |  |
| SPINNER                     | D-5527-1LP     | SPINNER ASSEMBLY               | 1        | Prop    |  |
| SPIN MTG KIT                | B-3384-1H      | BOLT, 1/4-28, HEX HEAD         | 10       | Prop    |  |
| SPIN MTG KIT                | B-3851-0432    | WASHER                         | 10       | Prop    |  |
| COUNTERWEIGHT               | C-472-12       | PCP:COUNTERWEIGHT              | 1        | Blade   |  |
| COUNTERWEIGHT SLUG A-1712   |                | BOLT,3/8-24,HEX HEAD           | 1        | Blade   |  |
| COUNTERWEIGHT SLUG A-1713   |                | PCP: SLUG, COUNTERWEIGHT       | 10       | Blade   |  |
| COUNTERWEIGHT SLUG A-2043-1 |                | NUT,3/8-24,HEX,SELF-LOCKING    | 1        | Blade   |  |
| MTG BOLT/STUD               | B-3339-1       | BOLT,MOUNTING,9/16-18,12 POINT | 8        | Prop    |  |
| MISC                        | C-3317-340-10  | O - RING                       | 5        | Prop    | To be used only in conjunction with performance of HC-SER-61-104 as an alternate to C-3317-340-8 |
| OVERHAUL KIT                | HC-E5N-3A-OH   | O/H KIT/D-5527-1P SPINNER      | 1        | Prop    | For aftermarket use only   |
| OVERHAUL KIT                | HC-E5N-3A-OH*2 | O/H KIT/D-5527-1P SPINNER      | 1        | Prop    | For aftermarket use only (SAME AS HC-E5N-3A-OH + (3) B-3819 SCREWS)                              |



# HARTZELL

## APPLICATION GUIDE

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PILATUS

IDS No.: 3392 Rev.: 5 IC Date: 09/27/2019

**Model:** PC-12, PC-12/45, PC-12/47, PC-12/47E up to and including S/N 1575

**Modifier:** Hartzell Propeller Inc.

**Trade Name:**

**Engine Model:** PT6A-67B, PT6A-67P

**Aircraft T.C./STC:** SA03466CH

**Power:** 1200 HP @ 1700 RPM

**Propeller Model:** HC-E5A-3A

**Placard/Restr:** Continuous ground operation is prohibited between 400 and 900 RPM. The propeller may be operated when feathered at or below 400 RPM.

**Propeller T.C.:** P20NE

**Notes:** The standard engine for aircraft model PC-12/47E is the PT6A-67P. The standard engine for the remaining aircraft is the PT6A-67B.

**Blade Model(s):** NC10245B  
NC10245B\*1  
NC10245B\*4  
NC10245B\*5

**Prop Diameter:** 105"

### Prop Setup:

**Ref. Radius:** 42

**Startlock Angle:**

**Reverse Angle:** -17.5 +/- 0.5

**Feather/High Angle:** 80.0 +/- 0.5

**Low Pitch Angle:** 14.7 +/-0.1

**Cwt Angle:**

**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| Item Type                   | Item Number | Description                    | Quantity | Qty Per | Comments  |
|-----------------------------|-------------|--------------------------------|----------|---------|---|
| PROPELLER                   | E5A01502S   | HC-E5A-3A/NC10245B/105820P     | 1        | A/C     | Superseded by E5A01504S   |
| PROPELLER                   | E5A01502SKD | HC-E5A-3A/NC10245B/105820P     | 1        | A/C     | Superseded by E5A01504SKD   |
| PROPELLER                   | E5A01504S   | HC-E5A-3A/NC10245B*4/105820P   | 1        | A/C     | Prop with wire boot, STC paint scheme                               |
| PROPELLER                   | E5A01504SKD | HC-E5A-3A/NC10245B*4/105820P   | 1        | A/C     | Knockdown prop with wire boot, STC paint scheme                     |
| PROPELLER                   | E5A01800S   | HC-E5A-3A/NC10245B[*1]/105820P | 1        | A/C     | Superseded by E5A01805S   |
| PROPELLER                   | E5A01800SKD | HC-E5A-3A/NC10245B[*1]/105820P | 1        | A/C     | Superseded by E5A01805SKD   |
| PROPELLER                   | E5A01805S   | HC-E5A-3A/NC10245B*5/105820P   | 1        | A/C     | Prop with wire boot, TC paint scheme                                |
| PROPELLER                   | E5A01805SKD | HC-E5A-3A/NC10245B*5/105820P   | 1        | A/C     | Knockdown prop with wire boot, TC paint scheme                      |
| BLADE                       | NC10245B    | PCP:BLADE ASSY, COMPOSITE      | 5        | Prop    | Superseded by NC10245B*4  |
| BLADE                       | NC10245B*1  | PCP:BLADE ASSY, COMPOSITE      | 5        | Prop    | Superseded by NC10245B*5  |
| BLADE                       | NC10245B*4  | PCP:BLADE ASSY, COMPOSITE      | 5        | Prop    | Blade with 107383 wire boot, STC paint scheme, supersedes NC10245B  |
| BLADE                       | NC10245B*5  | PCP:BLADE ASSY, COMPOSITE      | 5        | Prop    | Blade with 107383 wire boot, TC paint scheme, supersedes NC10245B*1 |
| SPINNER                     | 105820      | SPINNER ASSEMBLY               | 1        | Prop    |   |
| SPINNER                     | 105820P     | SPINNER ASSEMBLY               | 1        | Prop    |   |
| SPIN MTG KIT                | B-3384-6H   | BOLT, 1/4-28, HEX HEAD         | 10       | Prop    |   |
| SPIN MTG KIT                | B-3851-0432 | WASHER                         | 10       | Prop    |   |
| SP MT KIT DE-ICE            | A-2070-8    | SCREW, 1/4-28, BUTTON HEAD     | 10       | Prop    |   |
| COUNTERWEIGHT               | 105604      | PCP:COUNTERWEIGHT              | 1        | Blade   |   |
| COUNTERWEIGHT SLUG A-1712   |             | BOLT,3/8-24,HEX HEAD           | 1        | Blade   |   |
| COUNTERWEIGHT SLUG A-1713   |             | PCP: SLUG, COUNTERWEIGHT       | 10       | Blade   |   |
| COUNTERWEIGHT SLUG A-2043-1 |             | NUT,3/8-24,HEX,SELF-LOCKING    | 1        | Blade   |   |
| DE-ICER                     | 105622      | DE-ICE BOOT                    | 1        | Blade   | Inactive for new production, superseded by 107383                   |
| DE-ICER                     | 107383      | DE-ICE BOOT                    | 1        | Blade   | Supersedes 105622   |
| DE-ICE KIT PR               | 105934      | DE-ICE KIT (ONE PROP)          | 1        | Prop    |   |
| DE-ICE KIT A/F              | 105940      | AIRFRAME DE-ICE KIT            | 1        | A/C     |   |
| MTG BOLT/STUD               | B-3347      | BOLT,MOUNTING,9/16-18,12 POINT | 12       | Prop    |   |
| MISC                        | A-3074      | BLOCK, BETA FEEDBACK- ASSEMBLY | 1        | Prop    |   |

# HARTZELL

## APPLICATION GUIDE 159

**PILATUS**

IDS No.: 3391      Rev.: 6      IC      Date: 10/15/2019

**Model:** PC-12/47E  
**Trade Name:**  
**Aircraft T.C./STC:** A78EU  
**Propeller Model:** HC-E5A-3A  
**Propeller T.C.:** P20NE

**Modifier:**  
**Engine Model:** PT6A-67P  
**Power:** 1200 HP @ 1700 RPM  
**Placard/Restr:** Continuous ground operation is prohibited between 350 and 950 RPM. The propeller may be operated when feathered at or below 400 RPM.

**Blade Model(s):** NC10245B\*1  
 NC10245B\*5

**Notes:**

**Prop Diameter:** 105"

**Prop Setup:**

**Ref. Radius:** 42  
**Reverse Angle:** -17.5 +/- 0.5  
**Low Pitch Angle:** 15.7 +/-0.1

**Startlock Angle:**  
**Feather/High Angle:** 80.0 +/- 0.5  
**Cwt Angle:**

**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u>            | <u>Item Number</u> | <u>Description</u>             | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>                                   |
|-----------------------------|--------------------|--------------------------------|-----------------|----------------|---|
| PROPELLER                   | E5A01700S          | HC-E5A-3A/NC10245B[*1]/SPIN    | 1               | A/C            | Superseded by E5A01705S                           |
| PROPELLER                   | E5A01700SKD        | HC-E5A-3A/NC10245B[*1]/SPIN    | 1               | A/C            | Superseded by E5A01705SKD                         |
| PROPELLER                   | E5A01705S          | HC-E5A-3A/NC10245B*5/SPIN      | 1               | A/C            | Supersedes E5A01700S                              |
| PROPELLER                   | E5A01705SKD        | HC-E5A-3A/NC10245B*5/SPIN      | 1               | A/C            | Supersedes E5A01700SKD                            |
| BLADE                       | NC10245B*1         | PCP:BLADE ASSY, COMPOSITE      | 5               | Prop           | Superseded by NC10245B*5                          |
| BLADE                       | NC10245B*5         | PCP:BLADE ASSY, COMPOSITE      | 5               | Prop           | Supersedes NC10245B*1                             |
| SPINNER                     | 105820             | SPINNER ASSEMBLY               | 1               | Prop           |   |
| SPINNER                     | 105820P            | SPINNER ASSEMBLY               | 1               | Prop           |   |
| SPIN MTG KIT                | B-3384-6H          | BOLT, 1/4-28, HEX HEAD         | 10              | Prop           |   |
| SPIN MTG KIT                | B-3851-0432        | WASHER                         | 10              | Prop           |   |
| SP MT KIT DE-ICE            | A-2070-8           | SCREW, 1/4-28, BUTTON HEAD     | 10              | Prop           |   |
| COUNTERWEIGHT               | 105604             | PCP:COUNTERWEIGHT              | 1               | Blade          |   |
| COUNTERWEIGHT SLUG A-1712   |                    | BOLT,3/8-24,HEX HEAD           | 1               | Blade          |   |
| COUNTERWEIGHT SLUG A-1713   |                    | PCP: SLUG, COUNTERWEIGHT       | 10              | Blade          |   |
| COUNTERWEIGHT SLUG A-2043-1 |                    | NUT,3/8-24,HEX,SELF-LOCKING    | 1               | Blade          |   |
| DE-ICER                     | 105622             | DE-ICE BOOT                    | 1               | Blade          | Inactive for new production, superseded by 107383 |
| DE-ICER                     | 107383             | DE-ICE BOOT                    | 1               | Blade          | Supersedes 105622                                 |
| DE-ICE KIT PR               | 105934             | DE-ICE KIT (ONE PROP)          | 1               | Prop           |   |
| DE-ICE KIT A/F              | 105940             | AIRFRAME DE-ICE KIT            | 1               | A/C            |   |
| MTG BOLT/STUD               | B-3347             | BOLT,MOUNTING,9/16-18,12 POINT | 12              | Prop           |   |
| MISC                        | A-3074             | BLOCK, BETA FEEDBACK- ASSEMBLY | 1               | Prop           |   |

# HARTZELL

## APPLICATION GUIDE

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PILATUS

IDS No.: 3666 Rev.: 4 IC Date: 03/15/2021

Model: PC-12/47E

Modifier:

Trade Name:

Engine Model: PT6E-67XP

Aircraft T.C./STC: A78EU

Power: 1200 HP @ 1700 RPM

Propeller Model: HC-E5A-31A

Placard/Restr: Continuous ground operation is prohibited between 400 and 900 RPM. The propeller may be operated when feathered at or below 400 RPM.

Propeller T.C.: P20NE

Notes:

Blade Model(s): NC10245B\*5

Prop Diameter: 105"

**Prop Setup:**

Ref. Radius: 42

Startlock Angle:

Reverse Angle: -17.5 +/- 0.5

Feather/High Angle: 80.0 +/- 0.5

Low Pitch Angle: 14.7 +/-0.1

Cwt Angle:

Stud Protrusion

**Non-HPI Items:**

Non-HPI Spinner:

Non-HPI Governor:

**Hartzell Approved Items:**

| Item Type                   | Item Number | Description                    | Quantity | Qty Per | Comments |
|-----------------------------|-------------|--------------------------------|----------|---------|----------|
| PROPELLER                   | E5A01850S   | HC-E5A-31A/NC10245B*5/105820P  | 1        | A/C     |          |
| PROPELLER                   | E5A01850SKD | HC-E5A-31A/NC10245B*5/105820P  | 1        | A/C     |          |
| BLADE                       | NC10245B*5  | PCP:BLADE ASSY, COMPOSITE      | 5        | Prop    |          |
| SPINNER                     | 105820      | SPINNER ASSEMBLY               | 1        | Prop    |          |
| SPINNER                     | 105820P     | SPINNER ASSEMBLY               | 1        | Prop    |          |
| SPIN MTG KIT                | B-3384-6H   | BOLT, 1/4-28, HEX HEAD         | 10       | Prop    |          |
| SPIN MTG KIT                | B-3851-0432 | WASHER                         | 10       | Prop    |          |
| SP MT KIT DE-ICE            | A-2070-8    | SCREW, 1/4-28, BUTTON HEAD     | 10       | Prop    |          |
| COUNTERWEIGHT               | 105604      | PCP:COUNTERWEIGHT              | 1        | Blade   |          |
| COUNTERWEIGHT SLUG A-1712   |             | BOLT,3/8-24,HEX HEAD           | 1        | Blade   |          |
| COUNTERWEIGHT SLUG A-1713   |             | PCP: SLUG, COUNTERWEIGHT       | 10       | Blade   |          |
| COUNTERWEIGHT SLUG A-2043-1 |             | NUT,3/8-24,HEX,SELF-LOCKING    | 1        | Blade   |          |
| DE-ICER                     | 107383      | DE-ICE BOOT                    | 1        | Blade   |          |
| DE-ICE KIT PR               | 105934      | DE-ICE KIT (ONE PROP)          | 1        | Prop    |          |
| DE-ICE KIT A/F              | 105940      | AIRFRAME DE-ICE KIT            | 1        | A/C     |          |
| MTG BOLT/STUD               | B-3347      | BOLT,MOUNTING,9/16-18,12 POINT | 12       | Prop    |          |

# HARTZELL

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PILATUS

**Model:** PC-6/350; PC-6/350-H1, -H2  
**Trade Name:** PORTER  
**Aircraft T.C./STC:** 7A15  
**Propeller Model:** HC-B3W30-2B  
**Propeller T.C.:** P2EA  
**Blade Model(s):** W9349N+.5  
**Prop Diameter:** 93.5" NO CUT OFF

**IDS No.:** 3236      **Rev.:** -      **DM Date:** 09/19/2013

**Modifier:**  
**Engine Model:** IGO-540-A1A  
**Power:** 350 HP @ 2182 RPM  
**Placard/Restr:**

**Notes:** W shank propeller is interchangeable with Z shank propeller as specified on Prop TC P-907.

### Prop Setup:

**Ref. Radius:** 30"  
**Reverse Angle:** N/A  
**Low Pitch Angle:** 15.0 +/- 0.2  
**Stud Protrusion**

**Startlock Angle:** N/A  
**Feather/High Angle:** 87.0 +/- 0.5  
**Cwt Angle:**

### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>        | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|---------------------------|-----------------|----------------|-----------------|
| PROPELLER        | B3310010           | HC-B3W30-2B/W9349N+.5     | 1               | A/C            |                 |
| BLADE            | W9349N+.5          | PCP:BLADE UNIT, ALUMINUM  | 3               | Prop           |                 |
| SPINNER          | 836-32SPR          | SPINNER ASSEMBLY          | 1               | Prop           |                 |
| MTG BOLT/STUD    | B-1894             | PCP: NUT,SHAFT, 30 SPLINE | 1               | Prop           |                 |

PILATUS

**Model:** PC-3  
**Trade Name:**  
**Aircraft T.C./STC:** Unknown  
**Propeller Model:** HC-83X20-2A, HC-A3X20-2, HC-A3X20-2A  
**Propeller T.C.:** P6EA  
**Blade Model(s):** 8433  
**Prop Diameter:** 84.6"

**IDS No.:** 2226      **Rev.:** -      **DM Date:** 11/20/2003

**Modifier:**  
**Engine Model:** GO-435-C2A  
**Power:** 260 HP @ 2182 RPM  
**Placard/Restr:**

**Notes:** Note: Blade angles are for assembly only.

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 16.5 +/-0.2  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 82.0 +/-0.5  
**Cwt Angle:** Positive

### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>         | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|----------------------------|-----------------|----------------|-----------------|
| BLADE            | 8433               | BLADE                      | 3               | Prop           |                 |
| SPINNER          | 835-10S            | SPINNER ASSEMBLY           | 1               | Prop           |                 |
| MTG BOLT/STUD    | A-63B              | PCP: NUT, SHAFT, 20 SPLINE | 1               | Prop           |                 |
| MTG BOLT/STUD    | A-63-B             | NUT,SHAFT,20 SPLINE        | 1               | Prop           |                 |

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**PILATUS**

**Model:** PC-3  
**Trade Name:**  
**Aircraft T.C./STC:** Unknown  
**Propeller Model:** HC-83V20-2A, HC-A3V20-2, HC-A3V20-2A  
**Propeller T.C.:** P6EA  
**Blade Model(s):** V8433  
V8433N  
**Prop Diameter:** 84.6"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 16.5 +-0.2  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number | Description                | Quantity | Qty Per | Comments |
|---------------|-------------|----------------------------|----------|---------|----------|
| BLADE         | V8433       | BLADE                      | 3        | Prop    |          |
| BLADE         | V8433N      | BLADE                      | 3        | Prop    |          |
| SPINNER       | 835-10S     | SPINNER ASSEMBLY           | 1        | Prop    |          |
| MTG BOLT/STUD | A-63B       | PCP: NUT, SHAFT, 20 SPLINE | 1        | Prop    |          |
| MTG BOLT/STUD | A-63-B      | NUT,SHAFT,20 SPLINE        | 1        | Prop    |          |

**IDS No.:** 2227      **Rev.:** -      **DM Date:** 11/20/2003

**Modifier:**  
**Engine Model:** GO-435-C2A  
**Power:** 260 HP @ 2182 RPM  
**Placard/Restr:**

**Notes:** Note: Blade angles are for assembly only.

**Startlock Angle:** NA  
**Feather/High Angle:** 82.0 +-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:**

**PILATUS**

**Model:** PC-3  
**Trade Name:**  
**Aircraft T.C./STC:** Unknown  
**Propeller Model:** HC-A3MV20-2  
**Propeller T.C.:** P6EA  
**Blade Model(s):** MV8433N  
**Prop Diameter:** 84.6"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 16.5 +-0.2  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number | Description                  | Quantity | Qty Per | Comments |
|---------------|-------------|------------------------------|----------|---------|----------|
| BLADE         | MV8433N     | PCP:BLADE UNIT, ALUM [1,1,1] | 3        | Prop    |          |
| SPINNER       | 835-10S     | SPINNER ASSEMBLY             | 1        | Prop    |          |
| MTG BOLT/STUD | A-63B       | PCP: NUT, SHAFT, 20 SPLINE   | 1        | Prop    |          |
| MTG BOLT/STUD | A-63-B      | NUT,SHAFT,20 SPLINE          | 1        | Prop    |          |

**IDS No.:** 721      **Rev.:** 1      **D Date:** 01/10/2011

**Modifier:**  
**Engine Model:** GO-435-C2A  
**Power:** 260 HP @ 2182 RPM  
**Placard/Restr:**

**Notes:** Note: Blade angles are for assembly only.

**Startlock Angle:** NA  
**Feather/High Angle:** 82.0 +-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:**

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PILATUS

Model: PC-4  
Trade Name:  
Aircraft T.C./STC: Unknown  
Propeller Model: HC-A3X20-2  
Propeller T.C.: P913  
Blade Model(s): 8433  
Prop Diameter:

### Prop Setup:

Ref. Radius: 30  
Reverse Angle: NA  
Low Pitch Angle: 16.5 +-0.2  
Stud Protrusion

### Non-HPI Items:

Non-HPI Spinner:

IDS No.: 2393 Rev.: - DM Date: 12/01/2003

Modifier:  
Engine Model: GO-435-C2A  
Power: HP @ RPM  
Placard/Restr:  
Notes:

Startlock Angle: NA  
Feather/High Angle: 82.0 +-0.5  
Cwt Angle:

Non-HPI Governor:

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u> | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|--------------------|-----------------|----------------|-----------------|
| BLADE            | 8433               | BLADE              | 3               | Prop           |                 |

PILATUS

Model: PC-4  
Trade Name:  
Aircraft T.C./STC: Unknown  
Propeller Model: HC-A3V20-2  
Propeller T.C.: P6EA  
Blade Model(s): V8433  
V8433N  
Prop Diameter:

### Prop Setup:

Ref. Radius: 30  
Reverse Angle: NA  
Low Pitch Angle: 16.5 +-0.2  
Stud Protrusion

### Non-HPI Items:

Non-HPI Spinner:

IDS No.: 2394 Rev.: - DM Date: 12/01/2003

Modifier:  
Engine Model: GO-435-C2A  
Power: HP @ RPM  
Placard/Restr:  
Notes:

Startlock Angle: NA  
Feather/High Angle: 82.0 +-0.5  
Cwt Angle:

Non-HPI Governor:

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u> | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|--------------------|-----------------|----------------|-----------------|
| BLADE            | V8433              | BLADE              | 3               | Prop           |                 |
| BLADE            | V8433N             | BLADE              | 3               | Prop           |                 |

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PILATUS

**Model:** PC-6; PC-6-H1, -H2  
**Trade Name:** PORTER  
**Aircraft T.C./STC:** 7A15  
**Propeller Model:** HC-83X20-1D, HC-A3X20-1D  
**Propeller T.C.:** P6EA  
**Blade Model(s):** 9333C  
**Prop Diameter:** 93.6" TO 88"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 15.0 +-0.2  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>         | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|----------------------------|-----------------|----------------|-----------------|
| BLADE            | 9333C              | BLADE                      | 3               | Prop           |                 |
| SPINNER          | 836-15             | IDS Item                   | 1               | Prop           |                 |
| GOVERNOR         | B3                 | GOVERNOR ASSEMBLY, B-3-( ) | 1               | A/C            |                 |
| COUNTERWEIGHT    | 833-25R            | IDS Item                   | 1               | Blade          |                 |

**IDS No.:** 2229 **Rev.:** - **DM Date:** 11/20/2003

**Modifier:**  
**Engine Model:** GSO-480-B1A6  
**Power:** 340 HP @ 2182 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 36.0 +-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:**

PILATUS

**Model:** PC-6; PC-6-H1, -H2  
**Trade Name:** PORTER  
**Aircraft T.C./STC:** 7A15  
**Propeller Model:** HC-83X20-1, HC-83X20-1B, HC-A3X20-1B  
**Propeller T.C.:** P6EA  
**Blade Model(s):** 9333C  
**Prop Diameter:** 93.6" TO 88"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 15.0 +-0.2  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>         | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|----------------------------|-----------------|----------------|-----------------|
| BLADE            | 9333C              | BLADE                      | 3               | Prop           |                 |
| SPINNER          | 836-15             | IDS Item                   | 1               | Prop           |                 |
| GOVERNOR         | B3                 | GOVERNOR ASSEMBLY, B-3-( ) | 1               | A/C            |                 |
| COUNTERWEIGHT    | 833-25R            | IDS Item                   | 1               | Blade          |                 |

**IDS No.:** 2228 **Rev.:** - **DM Date:** 11/20/2003

**Modifier:**  
**Engine Model:** GSO-480-B1A6  
**Power:** 340 HP @ 2182 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 36.0 +-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:**

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**PILATUS**

**Model:** PC-6; PC-6-H1, -H2  
**Trade Name:** PORTER  
**Aircraft T.C./STC:** 7A15  
**Propeller Model:** HC-A3MV20-1B, 1D  
**Propeller T.C.:** P6EA  
**Blade Model(s):** MV9333N  
**Prop Diameter:** 93.6" TO 88"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 15.0 +-0.2  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number | Description                | Quantity | Qty Per | Comments |
|---------------|-------------|----------------------------|----------|---------|----------|
| BLADE         | MV9333N     | PCP:BLADE UNIT, ALUMINUM   | 3        | Prop    |          |
| SPINNER       | 836-15      | IDS Item                   | 1        | Prop    |          |
| GOVERNOR      | B3          | GOVERNOR ASSEMBLY, B-3-( ) | 1        | A/C     |          |
| COUNTERWEIGHT | 833-25R     | IDS Item                   | 1        | Blade   |          |

**IDS No.:** 722      **Rev.:** -      **DM Date:** 06/06/2006

**Modifier:**  
**Engine Model:** GSO-480-B1A6  
**Power:** 340 HP @ 2182 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 36.0 +-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:**

**PILATUS**

**Model:** PC-6; PC-6-H1, -H2  
**Trade Name:** PORTER  
**Aircraft T.C./STC:** 7A15  
**Propeller Model:** HC-83V20-1D, HC-A3V20-1D  
**Propeller T.C.:** P6EA  
**Blade Model(s):** V9333C  
V9333N  
**Prop Diameter:** 93.6" TO 88"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 15.0 +-0.2  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number | Description                | Quantity | Qty Per | Comments |
|---------------|-------------|----------------------------|----------|---------|----------|
| BLADE         | V9333C      | BLADE                      | 3        | Prop    |          |
| BLADE         | V9333N      | BLADE                      | 3        | Prop    |          |
| SPINNER       | 836-15      | IDS Item                   | 1        | Prop    |          |
| GOVERNOR      | B3          | GOVERNOR ASSEMBLY, B-3-( ) | 1        | A/C     |          |
| COUNTERWEIGHT | 833-25R     | IDS Item                   | 1        | Blade   |          |

**IDS No.:** 2231      **Rev.:** -      **DM Date:** 11/20/2003

**Modifier:**  
**Engine Model:** GSO-480-B1A6  
**Power:** 340 HP @ 2182 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 36.0 +-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:**



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### PILATUS

**Model:** PC-6; PC-6-H1, -H2  
**Trade Name:** PORTER  
**Aircraft T.C./STC:** 7A15  
**Propeller Model:** HC-83V20-1, HC-83V20-1B, HC-A3V20-1B  
  
**Propeller T.C.:** P6EA  
**Blade Model(s):** V9333C  
 V9333N  
  
**Prop Diameter:** 93.6" TO 88"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 15.0 +-0.2  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

#### Hartzell Approved Items:

| Item Type     | Item Number | Description               | Quantity | Qty Per | Comments |
|---------------|-------------|---------------------------|----------|---------|----------|
| BLADE         | V9333C      | BLADE                     | 3        | Prop    |          |
| BLADE         | V9333N      | BLADE                     | 3        | Prop    |          |
| SPINNER       | 836-15      | IDS Item                  | 1        | Prop    |          |
| GOVERNOR      | B3          | GOVERNOR ASSEMBLY, B-3(-) | 1        | A/C     |          |
| COUNTERWEIGHT | 833-25R     | IDS Item                  | 1        | Blade   |          |

**IDS No.:** 2230      **Rev.:** -      **DM Date:** 11/20/2003

**Modifier:**  
**Engine Model:** GSO-480-B1A6  
**Power:** 340 HP @ 2182 RPM  
**Placard/Restr:**

**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 36.0 +-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:**

### PILATUS

**Model:** PC-6/350; PC-6/350-H1, -H2  
**Trade Name:** PORTER  
**Aircraft T.C./STC:** 7A15  
**Propeller Model:** HC-B3Z30-2B  
**Propeller T.C.:** P907  
**Blade Model(s):** 9349N+1/2  
**Prop Diameter:** 93.5" NO CUT OFF

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 15.0 +-0.2  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

#### Hartzell Approved Items:

| Item Type     | Item Number | Description               | Quantity | Qty Per | Comments |
|---------------|-------------|---------------------------|----------|---------|----------|
| BLADE         | 9349N+1/2   | PCP:BLADE UNIT, ALUMINUM  | 3        | Prop    |          |
| SPINNER       | 836-32SPR   | SPINNER ASSEMBLY          | 1        | Prop    |          |
| MTG BOLT/STUD | B-1894      | PCP: NUT,SHAFT, 30 SPLINE | 1        | Prop    |          |

**IDS No.:** 723      **Rev.:** 1      **D Date:** 01/10/2011

**Modifier:**  
**Engine Model:** IGO-540-A1A  
**Power:** 350 HP @ 2182 RPM  
**Placard/Restr:** None

**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 87.0 +-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:**

# HARTZELL

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PILATUS

**Model:** PC-6/A-H2  
**Trade Name:** TURBO PORTER  
**Aircraft T.C./STC:** STC-SA273EA  
**Propeller Model:** HC-B3TN-3B  
**Propeller T.C.:** P15EA  
**Blade Model(s):** T10173N  
**Prop Diameter:** 101.5"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:**  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number | Description                       | Quantity | Qty Per | Comments |
|---------------|-------------|-----------------------------------|----------|---------|----------|
| BLADE         | T10173N     | IDS Item                          | 3        | Prop    |          |
| SPINNER       | C-3065      | SPINNER ASSEMBLY                  | 1        | Prop    |          |
| SPINNER       | C-3065-P    | SPINNER ASSEMBLY                  | 1        | Prop    |          |
| MTG BOLT/STUD | B-3339      | BOLT, MOUNTING, 9/16-18, 12 POINT | 8        | Prop    |          |

**IDS No.:** 728      **Rev.:** -      **DM Date:** 02/16/1997

**Modifier:** STYLES AVIATION  
**Engine Model:** PT6A  
**Power:** HP @ RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:**  
**Cwt Angle:** Unknown

**Non-HPI Governor:**

PILATUS

**Model:** PC-6/B-H2, PC-6/B1-H2  
**Trade Name:** TURBO PORTER  
**Aircraft T.C./STC:** 7A15  
**Propeller Model:** HC-B3TN-3C  
**Propeller T.C.:** P15EA  
**Blade Model(s):** T10173C  
 T10173CN  
**Prop Diameter:** 101.5" TO 99"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** -11.5 +/-0.5  
**Low Pitch Angle:** 15.0 +/-0.1  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type                      | Item Number | Description                       | Quantity | Qty Per | Comments |
|--------------------------------|-------------|-----------------------------------|----------|---------|----------|
| BLADE                          | T10173C     | BLADE                             | 3        | Prop    |          |
| BLADE                          | T10173CN    | PCP:BLADE UNIT, ALUMINUM          | 3        | Prop    |          |
| SPINNER                        | C-3065      | SPINNER ASSEMBLY                  | 1        | Prop    |          |
| SPINNER                        | C-3065-P    | SPINNER ASSEMBLY                  | 1        | Prop    |          |
| COUNTERWEIGHT SLUG A-3039      |             | SLUG, COUNTERWEIGHT               | 1        | Blade   |          |
| COUNTERWEIGHT SLUG A-890-8     |             | PCP:SLUG, COUNTERWEIGHT           | 1        | Blade   |          |
| COUNTERWEIGHT SLUG B-3384-18H  |             | BOLT, 1/4-28, HEX HEAD            | 2        | Blade   |          |
| COUNTERWEIGHT SLUG B-3851-0432 |             | WASHER                            | 2        | Blade   | Optional |
| COUNTERWEIGHT SLUG B-3851-0463 |             | WASHER                            | 2        | Blade   | Optional |
| MTG BOLT/STUD                  | B-3339      | BOLT, MOUNTING, 9/16-18, 12 POINT | 8        | Prop    |          |

**IDS No.:** 724      **Rev.:** 1      **D Date:** 01/10/2011

**Modifier:**  
**Engine Model:** PT6A-6A, -20  
**Power:** 550 HP @ 2200 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 85.5 +/-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:**

# HARTZELL

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PILATUS

IDS No.: 725 Rev.: 3 IC Date: 07/15/2015

**Model:** PC-6/B2-H2  
**Trade Name:** TURBO PORTER  
**Aircraft T.C./STC:** 7A15  
**Propeller Model:** HC-B3TN-3D  
**Propeller T.C.:** P15EA  
**Blade Model(s):** T10173C  
 T10173CK  
 T10173CN  
 T10173CNK  
 T10178C  
 T10178CK  
 T10178CN  
 T10178CNK  
**Prop Diameter:** 101.5" TO 99"

**Modifier:**  
**Engine Model:** PT6A-27  
**Power:** 550 HP @ 2200 RPM  
**Placard/Restr:**  
**Notes:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** -10.0 +-0.5  
**Low Pitch Angle:** 19.0 +-0.2  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 85.5 +-0.5  
**Cwt Angle:** Positive

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type                      | Item Number   | Description                       | Quantity | Qty Per | Comments                  |
|--------------------------------|---------------|-----------------------------------|----------|---------|---------------------------|
| PROPELLER                      | B3N10370S     | HC-B3TN-3D/T10173CN/C-3065-P      | 1        | A/C     |                           |
| PROPELLER                      | B3N10380S     | HC-B3TN-3D/T10173CNK/C-3065-P     | 1        | A/C     |                           |
| BLADE                          | T10173C       | BLADE                             | 3        | Prop    |                           |
| BLADE                          | T10173CK      | IDS*ITEM, BLADE                   | 3        | Prop    |                           |
| BLADE                          | T10173CN      | PCP:BLADE UNIT, ALUMINUM          | 3        | Prop    |                           |
| BLADE                          | T10173CNK     | PCP:BLADE UNIT, ALUMINUM          | 3        | Prop    |                           |
| BLADE                          | T10178C       | BLADE                             | 3        | Prop    |                           |
| BLADE                          | T10178CK      | IDS*ITEM, BLADE,4E2200-10 BOOT    | 3        | Prop    |                           |
| BLADE                          | T10178CN      | PCP:BLADE UNIT, ALUMINUM          | 3        | Prop    |                           |
| BLADE                          | T10178CNK     | IDS ITEM, BLADE,4E2200-10 BOOT    | 3        | Prop    |                           |
| SPINNER                        | C-3065        | SPINNER ASSEMBLY                  | 1        | Prop    |                           |
| SPINNER                        | C-3065-P      | SPINNER ASSEMBLY                  | 1        | Prop    |                           |
| SPIN MTG KIT                   | B-3384-4H     | BOLT, 1/4-28, HEX HEAD            | 12       | Prop    |                           |
| SPIN MTG KIT                   | B-3808-4      | NUT,HEX,SELF-LOCKING              | 24       | Prop    |                           |
| SPIN MTG KIT                   | B-3851-0432   | WASHER                            | 24       | Prop    |                           |
| SP MT KIT DE-ICE               | A-2070-7      | SCREW, 1/4-28, BUTTON HEAD        | 12       | Prop    |                           |
| SP MT KIT DE-ICE               | B-3808-4      | NUT,HEX,SELF-LOCKING              | 12       | Prop    |                           |
| SP MT KIT DE-ICE               | B-3837-0432   | WASHER, CORROSION RESISTANT       | 12       | Prop    |                           |
| SP MT KIT DE-ICE               | B-7077-52     | BELLEVILLE SPRING WASHER          | 12       | Prop    |                           |
| COUNTERWEIGHT SLUG A-3039      |               | SLUG, COUNTERWEIGHT               | 1        | Blade   |                           |
| COUNTERWEIGHT SLUG A-890-6     |               | PCP:SLUG, COUNTERWEIGHT           | 1        | Blade   | Primary                   |
| COUNTERWEIGHT SLUG A-890-8     |               | PCP:SLUG, COUNTERWEIGHT           | 1        | Blade   | Alternate                 |
| COUNTERWEIGHT SLUG A-890-9     |               | PCP:SLUG, COUNTERWEIGHT           | 1        | Blade   | Alternate                 |
| COUNTERWEIGHT SLUG B-3384-21H  |               | BOLT, 1/4-28, HEX HEAD            | 2        | Blade   |                           |
| COUNTERWEIGHT SLUG B-3851-0432 |               | WASHER                            | 2        | Blade   | Optional                  |
| COUNTERWEIGHT SLUG B-3851-0463 |               | WASHER                            | 2        | Blade   | Optional                  |
| DE-ICER                        | 4H2200-10     | DE-ICE BOOT                       | 1        | Blade   | Supersedes 7931-4E2200-10 |
| DE-ICE KIT PR                  | 7931-67-050-1 | DE-ICE KIT (ONE PROP)             | 1        | Prop    |                           |
| MTG BOLT/STUD                  | B-3339        | BOLT, MOUNTING, 9/16-18, 12 POINT | 8        | Prop    |                           |
| MISC ACCES                     | A-3074        | BLOCK, BETA FEEDBACK- ASSEMBLY    | 2        | Prop    |                           |
| OVERHAUL KIT                   | 67-050-1-OH   | DE-ICE O/H KIT, 4H2200-10 BOOT    | 1        | Prop    | For aftermarket use only  |
| OVERHAUL KIT                   | HC-B3TN-3D-OH | O/H KIT                           | 1        | Prop    | For aftermarket use only  |

# HARTZELL

## APPLICATION GUIDE

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PILATUS

IDS No.: 1839 Rev.: 5 IC Date: 02/17/2017

Model: PC-6/B2-H4  
 Trade Name: TURBO PORTER  
 Aircraft T.C./STC: 7A15  
 Propeller Model: HC-B3TN-3D  
 Propeller T.C.: P15EA  
 Blade Model(s): T10178CNR  
 T10178CNRK  
 T10178CR  
 T10178CRK

Modifier:  
 Engine Model: PT6A-27  
 Power: 550 HP @ 2000 RPM  
 Placard/Restr:  
 Notes: Pilatus derates engine to 2000 RPM

Prop Diameter: 101.5" TO 99"

### Prop Setup:

Ref. Radius: 30  
 Reverse Angle: -10.5 +0.5  
 Low Pitch Angle: 19.0 +0.2  
 Stud Protrusion

Startlock Angle: NA  
 Feather/High Angle: 85.5 +0.5  
 Cwt Angle: Positive

### Non-HPI Items:

Non-HPI Spinner:

Non-HPI Governor:

### Hartzell Approved Items:

| Item Type                      | Item Number   | Description                       | Quantity | Qty Per | Comments                  |
|--------------------------------|---------------|-----------------------------------|----------|---------|---------------------------|
| PROPELLER                      | B3N10410KD    | HC-B3TN-3D/T10178CNR              | 1        | A/C     |                           |
| PROPELLER                      | B3N10410S     | HC-B3TN-3D/T10178CNR/C-3065-P     | 1        | A/C     |                           |
| PROPELLER                      | B3N10410SKD   | HC-B3TN-3D/T10178CNR/C-3065-P     | 1        | A/C     |                           |
| PROPELLER                      | B3N10420      | HC-B3TN-3D/T10178CNRK/BULKHEAD    | 1        | A/C     |                           |
| PROPELLER                      | B3N10420KD    | HC-B3TN-3D/T10178CNRK/BULKHEAD    | 1        | A/C     |                           |
| PROPELLER                      | B3N10420S     | HC-B3TN-3D/T10178CNRK/C-3065-P    | 1        | A/C     |                           |
| BLADE                          | T10178CNR     | PCP:BLADE UNIT, ALUMINUM          | 3        | Prop    |                           |
| BLADE                          | T10178CNRK    | PCP:BLADE UNIT, ALUMINUM          | 3        | Prop    |                           |
| BLADE                          | T10178CR      | BLADE UNIT, ALUMINUM              | 3        | Prop    |                           |
| BLADE                          | T10178CRK     | IDS*ITEM, BLADE                   | 3        | Prop    |                           |
| SPINNER                        | C-3065        | SPINNER ASSEMBLY                  | 1        | Prop    |                           |
| SPINNER                        | C-3065-P      | SPINNER ASSEMBLY                  | 1        | Prop    |                           |
| SPIN MTG KIT                   | B-3384-4H     | BOLT, 1/4-28, HEX HEAD            | 12       | Prop    |                           |
| SPIN MTG KIT                   | B-3851-0432   | WASHER                            | 24       | Prop    |                           |
| SP MT KIT DE-ICE               | A-2070-7      | SCREW, 1/4-28, BUTTON HEAD        | 12       | Prop    |                           |
| SP MT KIT DE-ICE               | B-3808-4      | NUT, HEX, SELF-LOCKING            | 12       | Prop    |                           |
| SP MT KIT DE-ICE               | B-3837-0432   | WASHER, CORROSION RESISTANT       | 12       | Prop    |                           |
| SP MT KIT DE-ICE               | B-7077-52     | BELLEVILLE SPRING WASHER          | 12       | Prop    |                           |
| COUNTERWEIGHT SLUG A-3039      |               | SLUG, COUNTERWEIGHT               | 1        | Blade   |                           |
| COUNTERWEIGHT SLUG A-890-6     |               | PCP:SLUG, COUNTERWEIGHT           | 1        | Blade   | Primary                   |
| COUNTERWEIGHT SLUG A-890-8     |               | PCP:SLUG, COUNTERWEIGHT           | 1        | Blade   | Alternate                 |
| COUNTERWEIGHT SLUG A-890-9     |               | PCP:SLUG, COUNTERWEIGHT           | 1        | Blade   | Alternate                 |
| COUNTERWEIGHT SLUG B-3384-21H  |               | BOLT, 1/4-28, HEX HEAD            | 2        | Blade   |                           |
| COUNTERWEIGHT SLUG B-3851-0432 |               | WASHER                            | 2        | Blade   | Optional                  |
| COUNTERWEIGHT SLUG B-3851-0463 |               | WASHER                            | 2        | Blade   | Optional                  |
| DE-ICER                        | 4H2200-10     | DE-ICE BOOT                       | 1        | Blade   | Supersedes 7931-4E2200-10 |
| DE-ICE KIT PR                  | 7931-67-050-1 | DE-ICE KIT (ONE PROP)             | 1        | Prop    |                           |
| MTG BOLT/STUD                  | B-3339        | BOLT, MOUNTING, 9/16-18, 12 POINT | 8        | Prop    |                           |
| MISC ACCES                     | A-3074        | BLOCK, BETA FEEDBACK- ASSEMBLY    | 2        | Prop    |                           |
| OVERHAUL KIT                   | 67-050-1-OH   | DE-ICE O/H KIT, 4H2200-10 BOOT    | 1        | Prop    | For aftermarket use only  |
| OVERHAUL KIT                   | HC-B3TN-3D-OH | O/H KIT                           | 1        | Prop    | For aftermarket use only  |

# HARTZELL

## APPLICATION GUIDE 159

PILATUS

IDS No.: 731 Rev.: 1 D Date: 01/10/2011

**Model:** PC-6/B,B1-H2  
**Trade Name:** TURBO PORTER  
**Aircraft T.C./STC:** STC-SA614EA  
**Propeller Model:** HC-B3TN-3D  
**Propeller T.C.:** P15EA  
**Blade Model(s):** T10178C  
 T10178CN  
**Prop Diameter:** 101.5"

**Modifier:** STYLES AVIATION  
**Engine Model:** PT6A-27  
**Power:** 680 HP @ 2200 RPM  
**Placard/Restr:**  
**Notes:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:**  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:**  
**Cwt Angle:** Positive

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u>               | <u>Item Number</u> | <u>Description</u>                | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|--------------------------------|--------------------|-----------------------------------|-----------------|----------------|-----------------|
| BLADE                          | T10178C            | BLADE                             | 3               | Prop           |                 |
| BLADE                          | T10178CN           | PCP:BLADE UNIT, ALUMINUM          | 3               | Prop           |                 |
| SPINNER                        | C-3065             | SPINNER ASSEMBLY                  | 1               | Prop           |                 |
| SPINNER                        | C-3065-P           | SPINNER ASSEMBLY                  | 1               | Prop           |                 |
| COUNTERWEIGHT SLUG A-3039      |                    | SLUG, COUNTERWEIGHT               | 1               | Blade          |                 |
| COUNTERWEIGHT SLUG A-890-8     |                    | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          |                 |
| COUNTERWEIGHT SLUG B-3384-18H  |                    | BOLT, 1/4-28, HEX HEAD            | 2               | Blade          |                 |
| COUNTERWEIGHT SLUG B-3851-0432 |                    | WASHER                            | 2               | Blade          | Optional        |
| COUNTERWEIGHT SLUG B-3851-0463 |                    | WASHER                            | 2               | Blade          | Optional        |
| MTG BOLT/STUD                  | B-3339             | BOLT, MOUNTING, 9/16-18, 12 POINT | 8               | Prop           |                 |

# HARTZELL

## APPLICATION GUIDE

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**PILATUS**

**Model:** PC-6/B1-H2, /B2-H2, /B2-H4  
**Trade Name:** TURBO PORTER  
**Aircraft T.C./STC:** STC-SA377CH  
**Propeller Model:** HC-D4N-3P  
**Propeller T.C.:** P10NE

**Blade Model(s):** D9511F  
 D9511F\*2  
 D9511FK\*3

**Prop Diameter:** 96.0" TO 95.0"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** -10.25 +-0.75  
**Low Pitch Angle:** 20.5 +-0.1  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

**IDS No.:** 1161      **Rev.:** 3      **IC Date:** 08/13/2015

**Modifier:** HARTZELL PROPELLER  
**Engine Model:** PT6A-20, -27, B2-H2 & B2-H4  
**Power:** 550 HP @ 2200 RPM  
**Placard/Restr:** Stabilized ground operation is prohibited between 440 and 1056 RPM

**Notes:** Engine RPM rating is 2000rpm for B2-H4. De-ice equipment for this STC'd prop is approved under Pilatus Type Certificate 7A15.

**Startlock Angle:** NA  
**Feather/High Angle:** 86.1 +-0.5  
**Cwt Angle:**

**Non-HPI Governor:**

| Item Type                   | Item Number   | Description                    | Quantity | Qty Per | Comments                  |
|-----------------------------|---------------|--------------------------------|----------|---------|---------------------------|
| PROPELLER                   | D4N00160S     | HC-D4N-3P/D9511F/D-630-P       | 1        | A/C     |                           |
| PROPELLER                   | D4N00160SKD   | HC-D4N-3P/D9511F/D-630-P       | 1        | A/C     |                           |
| PROPELLER                   | D4N00161S     | HC-D4N-3P/D9511FK[*3]/D-630-P  | 1        | A/C     |                           |
| PROPELLER                   | D4N00161SKD   | HC-D4N-3P/D9511FK[*3]/D-630-P  | 1        | A/C     |                           |
| PROPELLER                   | D4N00163S     | HC-D4N-3P/D9511F/D-630-P       | 1        | A/C     |                           |
| PROPELLER                   | D4N00163SKD   | HC-D4N-3P/D9511F/D-630-P       | 1        | A/C     |                           |
| BLADE                       | D9511F        | PCP:BLADE UNIT, ALUM [1,1,1]   | 4        | Prop    |                           |
| BLADE                       | D9511F*2      | IDS Item                       | 4        | Prop    |                           |
| BLADE                       | D9511FK*3     | PCP:BLADE UNIT, ALUM 4H2271-10 | 4        | Prop    |                           |
| SPINNER                     | D-630-P       | SPINNER ASSEMBLY               | 1        | Prop    |                           |
| SPIN MTG KIT                | B-3384-2      | IDS Item                       | 8        | Prop    | Secondary                 |
| SPIN MTG KIT                | B-3384-2H     | BOLT, 1/4-28, HEX HEAD         | 8        | Prop    | Primary                   |
| SPIN MTG KIT                | B-3851-0432   | WASHER                         | 8        | Prop    |                           |
| SP MT KIT DE-ICE            | A-2070-7      | SCREW, 1/4-28, BUTTON HEAD     | 8        | Prop    |                           |
| COUNTERWEIGHT               | C-472-4       | PCP:COUNTERWEIGHT              | 1        | Blade   |                           |
| COUNTERWEIGHT SLUG A-1712   |               | BOLT,3/8-24,HEX HEAD           | 1        | Blade   |                           |
| COUNTERWEIGHT SLUG A-1713   |               | PCP: SLUG, COUNTERWEIGHT       | 2        | Blade   |                           |
| COUNTERWEIGHT SLUG A-2043-1 |               | NUT,3/8-24,HEX,SELF-LOCKING    | 1        | Blade   |                           |
| DE-ICER                     | 4H2271-10     | DE-ICE BOOT                    | 1        | Blade   | Supersedes 7931-4E2271-10 |
| DE-ICE KIT PR               | 106308        | DE-ICE KIT (ONE PROP)          | 1        | Prop    | Supersedes 7931-67-896-1  |
| DE-ICE KIT PR               | 7931-67-896-1 | DE-ICE KIT (ONE PROP)          | 1        | Prop    | Superseded by 106308      |
| DE-ICE KIT A/F              | 7931-67-896-2 | IDS ITEM (AIRFRAME DE-ICE KIT) | 1        | A/C     |                           |
| MTG BOLT/STUD               | B-3339-1      | BOLT,MOUNTING,9/16-18,12 POINT | 8        | Prop    |                           |
| MISC ACCES                  | A-3074        | BLOCK, BETA FEEDBACK- ASSEMBLY | 2        | Prop    |                           |

# HARTZELL

## APPLICATION GUIDE 159

PILATUS

**Model:** PC-6/B1-H2  
**Trade Name:** TURBO PORTER  
**Aircraft T.C./STC:** STC-SA545EA  
**Propeller Model:** HC-B3TN-3D  
**Propeller T.C.:** P15EA  
**Blade Model(s):** T10178C  
T10178CN  
**Prop Diameter:** 101.5"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:**  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

### Hartzell Approved Items:

**IDS No.:** 730      **Rev.:** -      **DM Date:** 01/09/2004

**Modifier:** STYLES AVIATION

**Engine Model:**

**Power:** HP @ RPM

**Placard/Restr:**

**Notes:**

**Startlock Angle:** NA

**Feather/High Angle:**

**Cwt Angle:** Unknown

**Non-HPI Governor:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>                | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|-----------------------------------|-----------------|----------------|-----------------|
| BLADE            | T10178C            | BLADE                             | 3               | Prop           |                 |
| BLADE            | T10178CN           | PCP:BLADE UNIT, ALUMINUM          | 3               | Prop           |                 |
| SPINNER          | C-3065             | SPINNER ASSEMBLY                  | 1               | Prop           |                 |
| SPINNER          | C-3065-P           | SPINNER ASSEMBLY                  | 1               | Prop           |                 |
| MTG BOLT/STUD    | B-3339             | BOLT, MOUNTING, 9/16-18, 12 POINT | 8               | Prop           |                 |

# HARTZELL

## APPLICATION GUIDE

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PILATUS

IDS No.: 726      Rev.: 3      IC      Date: 01/27/2020

**Model:** PC-6/C-H2  
**Trade Name:** TURBO PORTER  
**Aircraft T.C./STC:** 7A15  
**Propeller Model:** HC-B3TN-5C  
**Propeller T.C.:** P15EA  
**Blade Model(s):** T10178C  
    T10178CN  
**Prop Diameter:** 101.5" TO 99"

**Modifier:**  
**Engine Model:** TPE331-25D  
**Power:** 575 HP @ 2000 RPM  
**Placard/Restr:**  
**Notes:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** -9.5 +-0.5  
**Low Pitch Angle:** NA  
**Stud Protrusion**

**Startlock Angle:** 2.0 +-0.1  
**Feather/High Angle:** 87.0 +-0.5  
**Cwt Angle:** Positive

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u>               | <u>Item Number</u> | <u>Description</u>                | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|--------------------------------|--------------------|-----------------------------------|-----------------|----------------|-----------------|
| BLADE                          | T10178C            | BLADE                             | 3               | Prop           |                 |
| BLADE                          | T10178CN           | PCP:BLADE UNIT, ALUMINUM          | 3               | Prop           |                 |
| SPINNER                        | C-3043-1P          | IDS Item                          | 1               | Prop           |                 |
| COUNTERWEIGHT SLUG A-3039      |                    | SLUG, COUNTERWEIGHT               | 1               | Blade          |                 |
| COUNTERWEIGHT SLUG A-890-6     |                    | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          | Primary         |
| COUNTERWEIGHT SLUG A-890-8     |                    | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          | Alternate       |
| COUNTERWEIGHT SLUG A-890-9     |                    | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          | Alternate       |
| COUNTERWEIGHT SLUG B-3384-21H  |                    | BOLT, 1/4-28, HEX HEAD            | 2               | Blade          |                 |
| COUNTERWEIGHT SLUG B-3851-0432 |                    | WASHER                            | 2               | Blade          | Optional        |
| COUNTERWEIGHT SLUG B-3851-0463 |                    | WASHER                            | 2               | Blade          | Optional        |
| MTG BOLT/STUD                  | B-3339             | BOLT, MOUNTING, 9/16-18, 12 POINT | 8               | Prop           |                 |



# HARTZELL

## APPLICATION GUIDE

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PILATUS

IDS No.: 727      Rev.: 3      IC Date: 01/27/2020

**Model:** PC-6/C1-H2  
**Trade Name:** TURBO PORTER  
**Aircraft T.C./STC:** 7A15  
**Propeller Model:** HC-B3TN-5C  
**Propeller T.C.:** P15EA  
**Blade Model(s):** T10178C  
                           T10178CN  
                           T10178CNR  
                           T10178CR

**Modifier:**  
**Engine Model:** TPE331-1-100  
**Power:** 575 HP @ 2000 RPM  
**Placard/Restr:**  
**Notes:**

**Prop Diameter:** 101.5" TO 99"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** -9.5 +-0.5  
**Low Pitch Angle:** NA  
**Stud Protrusion**

**Startlock Angle:** 2.0 +-0.2  
**Feather/High Angle:** 87.0 +-0.5  
**Cwt Angle:** Positive

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type                      | Item Number | Description                       | Quantity | Qty Per | Comments  |
|--------------------------------|-------------|-----------------------------------|----------|---------|-----------|
| PROPELLER                      | B3N10770    | HC-B3TN-5C/T10178CN               | 1        | A/C     |           |
| PROPELLER                      | B3N10771    | HC-B3TN-5C/T10178CNR              | 1        | A/C     |           |
| BLADE                          | T10178C     | BLADE                             | 3        | Prop    |           |
| BLADE                          | T10178CN    | PCP:BLADE UNIT, ALUMINUM          | 3        | Prop    |           |
| BLADE                          | T10178CNR   | PCP:BLADE UNIT, ALUMINUM          | 3        | Prop    |           |
| BLADE                          | T10178CR    | BLADE UNIT, ALUMINUM              | 3        | Prop    |           |
| SPINNER                        | C-3043-1P   | IDS Item                          | 1        | Prop    |           |
| COUNTERWEIGHT SLUG A-3039      |             | SLUG, COUNTERWEIGHT               | 1        | Blade   |           |
| COUNTERWEIGHT SLUG A-890-6     |             | PCP:SLUG, COUNTERWEIGHT           | 1        | Blade   | Primary   |
| COUNTERWEIGHT SLUG A-890-8     |             | PCP:SLUG, COUNTERWEIGHT           | 1        | Blade   | Alternate |
| COUNTERWEIGHT SLUG A-890-9     |             | PCP:SLUG, COUNTERWEIGHT           | 1        | Blade   | Alternate |
| COUNTERWEIGHT SLUG B-3384-21H  |             | BOLT, 1/4-28, HEX HEAD            | 2        | Blade   |           |
| COUNTERWEIGHT SLUG B-3851-0432 |             | WASHER                            | 2        | Blade   | Optional  |
| COUNTERWEIGHT SLUG B-3851-0463 |             | WASHER                            | 2        | Blade   | Optional  |
| MTG BOLT/STUD                  | B-3339      | BOLT, MOUNTING, 9/16-18, 12 POINT | 8        | Prop    |           |

# HARTZELL

## APPLICATION GUIDE

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PILATUS

IDS No.: 729      Rev.: 3      IC      Date: 01/27/2020

**Model:** PC-6/A,C-H2  
**Trade Name:** TURBO PORTER  
**Aircraft T.C./STC:** STC-SA368EA  
**Propeller Model:** HC-B3TN-5C  
**Propeller T.C.:** P15EA  
**Blade Model(s):** T10178C  
    T10178CN  
**Prop Diameter:** 101.5"

**Modifier:** STYLES AVIATION  
**Engine Model:** TPE331-25D, -25DA, -250B, -71  
**Power:** 575 HP @ 2000 RPM  
**Placard/Restr:**  
**Notes:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:**  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:**  
**Cwt Angle:** Positive

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u>               | <u>Item Number</u> | <u>Description</u>                | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|--------------------------------|--------------------|-----------------------------------|-----------------|----------------|-----------------|
| BLADE                          | T10178C            | BLADE                             | 3               | Prop           |                 |
| BLADE                          | T10178CN           | PCP:BLADE UNIT, ALUMINUM          | 3               | Prop           |                 |
| SPINNER                        | C-3043-1           | IDS Item                          | 1               | Prop           |                 |
| COUNTERWEIGHT SLUG A-3039      |                    | SLUG, COUNTERWEIGHT               | 1               | Blade          |                 |
| COUNTERWEIGHT SLUG A-890-6     |                    | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          | Primary         |
| COUNTERWEIGHT SLUG A-890-8     |                    | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          | Alternate       |
| COUNTERWEIGHT SLUG A-890-9     |                    | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          | Alternate       |
| COUNTERWEIGHT SLUG B-3384-21H  |                    | BOLT, 1/4-28, HEX HEAD            | 2               | Blade          |                 |
| COUNTERWEIGHT SLUG B-3851-0432 |                    | WASHER                            | 2               | Blade          | Optional        |
| COUNTERWEIGHT SLUG B-3851-0463 |                    | WASHER                            | 2               | Blade          | Optional        |
| MTG BOLT/STUD                  | B-3339             | BOLT, MOUNTING, 9/16-18, 12 POINT | 8               | Prop           |                 |

# HARTZELL

## APPLICATION GUIDE

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PILATUS

IDS No.: 732 Rev.: 4 IC Date: 10/22/2021

**Model:** PC-7  
**Trade Name:** TURBO TRAINER  
**Aircraft T.C./STC:** A50EU  
**Propeller Model:** HC-B3TN-2(F)  
**Propeller T.C.:** P15EA  
**Blade Model(s):** T10173C-8  
T10173CK-8  
T10173CN-8  
T10173CNK-8  
**Prop Diameter:** 93.5" TO 92 3/8"

**Modifier:**  
**Engine Model:** PT6A-25A  
**Power:** 550 HP @ 2200 RPM  
**Placard/Restr:**

**Notes:** The aircraft weight limits are min. gross weight of 3100 lbs and max. gross weight of 4200 lbs for Aerobatic Category operation and 5950 lbs for Utility Category operation. D-5203P has holes for dynamic balance weights in bulkhead. Reference Manual 139 for Airworthiness Limitations. Production Assemblies: Supply Pilatus with HPI Kit #A-6452, Slip Ring Assy 4H2442-1 (If requesting De-Ice feature). Pilatus to modify affected parts per SB-21-006.

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 14.0 +/-0.1  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 83.5 +/-1.5  
**Cwt Angle:** Positive

### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| Item Type          | Item Number   | Description                       | Quantity | Qty Per | Comments                  |
|--------------------|---------------|-----------------------------------|----------|---------|---------------------------|
| PROPELLER          | B3N10031S     | HC-B3TN-2/T10173CN-8/D-5203-P     | 1        | A/C     |                           |
| PROPELLER          | B3N10031SKD   | HC-B3TN-2/T10173CN-8/D-5203-P     | 1        | A/C     |                           |
| PROPELLER          | B3N10035      | HC-B3TN-2/T10173CNK-8/BULK/DEI    | 1        | A/C     |                           |
| PROPELLER          | B3N10035S     | HC-B3TN-2/T10173CNK-8/D-5203-P    | 1        | A/C     |                           |
| PROPELLER          | B3N10035SKD   | HC-B3TN-2/T10173CNK-8/D-5203-P    | 1        | A/C     |                           |
| BLADE              | T10173C-8     | BLADE                             | 3        | Prop    |                           |
| BLADE              | T10173CK-8    | BLADE, 4E2200-10 BOOT             | 3        | Prop    |                           |
| BLADE              | T10173CN-8    | PCP:BLADE UNIT, ALUMINUM          | 3        | Prop    |                           |
| BLADE              | T10173CNK-8   | PCP:BLADE UNIT, ALUMINUM          | 3        | Prop    |                           |
| SPINNER            | C-3065        | SPINNER ASSEMBLY                  | 1        | Prop    |                           |
| SPINNER            | C-3065-P      | SPINNER ASSEMBLY                  | 1        | Prop    |                           |
| SPINNER            | D-5203-P      | SPINNER ASSEMBLY                  | 1        | Prop    |                           |
| SPIN MTG KIT       | B-3384-4H     | BOLT, 1/4-28, HEX HEAD            | 12       | Prop    |                           |
| SPIN MTG KIT       | B-3808-4      | NUT,HEX,SELF-LOCKING              | 12       | Prop    |                           |
| SPIN MTG KIT       | B-3851-0463   | WASHER                            | 12       | Prop    |                           |
| SP MT KIT DE-ICE   | A-2070-7      | SCREW, 1/4-28, BUTTON HEAD        | 12       | Prop    |                           |
| SP MT KIT DE-ICE   | B-3808-4      | NUT,HEX,SELF-LOCKING              | 12       | Prop    |                           |
| SP MT KIT DE-ICE   | B-3837-0432   | WASHER, CORROSION RESISTANT       | 12       | Prop    |                           |
| SP MT KIT DE-ICE   | B-7077-52     | BELLEVILLE SPRING WASHER          | 12       | Prop    |                           |
| COUNTERWEIGHT SLUG | A-619-3       | SLUG, COUNTERWEIGHT               | 1        | Blade   |                           |
| COUNTERWEIGHT SLUG | B-3840-10     | SCREW, 10-32, FILLISTER HEAD      | 2        | Blade   |                           |
| COUNTERWEIGHT SLUG | B-3840-2      | IDS Item                          | 2        | Blade   |                           |
| DE-ICER            | 4H2200-10     | DE-ICE BOOT                       | 1        | Blade   | Supersedes 7931-4E2200-10 |
| DE-ICE KIT PR      | 7931-67-050-1 | DE-ICE KIT (ONE PROP)             | 1        | Prop    |                           |
| MTG BOLT/STUD      | B-3339        | BOLT, MOUNTING, 9/16-18, 12 POINT | 8        | Prop    |                           |
| MISC ACCES         | 4H2442-1      | SLIP RING ASSEMBLY                | 1        | Prop    | See Pilatus SB-21-006     |
| MISC ACCES         | A-6452        | KIT,RET.VAPOR CYCLE COMP          | 1        | Prop    | See Pilatus SB-21-006     |
| OVERHAUL KIT       | 67-050-1-OH   | DE-ICE O/H KIT, 4H2200-10 BOOT    | 1        | Prop    | For aftermarket use only  |
| OVERHAUL KIT       | HC-B3TN-2-OH  | O/H KIT                           | 1        | Prop    | For aftermarket use only  |

# HARTZELL

## APPLICATION GUIDE

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PILATUS

**Model:** PC-7  
**Trade Name:** TURBO TRAINER  
**Aircraft T.C./STC:** SA8323SW  
**Propeller Model:** HC-B3TN-2  
**Propeller T.C.:** P15EA  
**Blade Model(s):** T10178N-8R\*2  
**Prop Diameter:** 93.5" TO 91.0"

**IDS No.:** 733      **Rev.:** 4      **IC Date:** 09/30/2021

**Modifier:** SIERRA IND.  
**Engine Model:** PT6A-25C  
**Power:** 750 HP @ 2200 RPM  
**Placard/Restr:**

**Notes:** Min diameter is per vibration approval.  
Reference Manual 139 for Airworthiness Limitations.

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 14.0 +-0.1  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 83.5 +-0.5  
**Cwt Angle:**

### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u>   | <u>Item Number</u> | <u>Description</u>                | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>                                    |
|--------------------|--------------------|-----------------------------------|-----------------|----------------|--|
| PROPELLER          | B3N10033S          | HC-B3TN-2/T10178N-8R*2/C-3065-P   | 1               | A/C            |  |
| BLADE              | T10178N-8R*2       | PCP:BLADE UNIT, ALUM [6,1,1]      | 3               | Prop           | Silver metallic blades with white standard stripes |
| SPINNER            | C-3065-P           | SPINNER ASSEMBLY                  | 1               | Prop           |  |
| SPIN MTG KIT       | B-3384-4H          | BOLT, 1/4-28, HEX HEAD            | 12              | Prop           |  |
| SPIN MTG KIT       | B-3808-4           | NUT, HEX, SELF-LOCKING            | 12              | Prop           |  |
| SPIN MTG KIT       | B-3851-0432        | WASHER                            | 24              | Prop           |  |
| COUNTERWEIGHT SLUG | A-619-3            | SLUG, COUNTERWEIGHT               | 1               | Blade          |  |
| COUNTERWEIGHT SLUG | B-3840-10          | SCREW, 10-32, FILLISTER HEAD      | 2               | Blade          |  |
| MTG BOLT/STUD      | B-3339             | BOLT, MOUNTING, 9/16-18, 12 POINT | 8               | Prop           |  |
| OVERHAUL KIT       | HC-B3TN-2-OH       | O/H KIT                           | 1               | Prop           | For aftermarket use only                           |

# HARTZELL

## APPLICATION GUIDE

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PILATUS

IDS No.: 1194 Rev.: 3 IC Date: 08/14/2015

**Model:** PC-7 MKII  
**Trade Name:** TURBO TRAINER  
**Aircraft T.C./STC:** Unknown  
**Propeller Model:** HC-D4N-2D  
**Propeller T.C.:** P10NE

**Modifier:**  
**Engine Model:** PT6A-25C  
**Power:** 700 HP @ 2040 RPM  
**Placard/Restr:** Ground Operation: "Prohibit sustained operation at propeller speeds between 1200 and 1700 RPM.

**Blade Model(s):** D9512A  
D9512AK  
**Prop Diameter:** 96.0" TO 95.0"

**Notes:** Refer to Manual 149 for Airworthiness Limitations.

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 16.0 +-0.1  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 86.0 +-1.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type                   | Item Number     | Description                    | Quantity | Qty Per | Comments                                    |
|-----------------------------|-----------------|--------------------------------|----------|---------|---|
| PROPELLER                   | D4N00005S       | HC-D4N-2D/D9512A/D-630-1       | 1        | A/C     |   |
| PROPELLER                   | D4N00005SKD     | HC-D4N-2D/D9512A/D-630-1       | 1        | A/C     |   |
| PROPELLER                   | D4N00007S       | HC-D4N-2D/D9512AK/D-630-1      | 1        | A/C     |   |
| BLADE                       | D9512A          | PCP:BLADE UNIT, ALUMINUM       | 4        | Prop    |   |
| BLADE                       | D9512AK         | PCP:BLADE UNIT, ALUMINUM       | 4        | Prop    |   |
| SPINNER                     | D-630-1         | SPINNER ASSEMBLY               | 1        | Prop    |   |
| SPIN MTG KIT                | B-3384-2H       | BOLT, 1/4-28, HEX HEAD         | 8        | Prop    | No drive pulley                             |
| SPIN MTG KIT                | B-3384-9H       | BOLT, 1/4-28, HEX HEAD         | 8        | Prop    | With drive pulley                           |
| SPIN MTG KIT                | B-3851-0432     | WASHER                         | 8        | Prop    | With drive pulley                           |
| SPIN MTG KIT                | B-3851-0432     | WASHER                         | 8        | Prop    | No drive pulley                             |
| SP MT KIT DE-ICE            | A-2070-7        | SCREW, 1/4-28, BUTTON HEAD     | 8        | Prop    | No drive pulley                             |
| COUNTERWEIGHT               | C-472-2         | PCP:COUNTERWEIGHT              | 1        | Blade   |   |
| COUNTERWEIGHT SLUG A-1712   |                 | BOLT,3/8-24,HEX HEAD           | 1        | Blade   |   |
| COUNTERWEIGHT SLUG A-1713   |                 | PCP: SLUG, COUNTERWEIGHT       | 4        | Blade   |   |
| COUNTERWEIGHT SLUG A-2043-1 |                 | NUT,3/8-24,HEX,SELF-LOCKING    | 1        | Blade   |   |
| DE-ICER                     | 4H2271-10       | DE-ICE BOOT                    | 1        | Blade   | Supersedes 7931-4E2271-10                   |
| DE-ICE KIT PR               | 106308          | DE-ICE KIT (ONE PROP)          | 1        | Prop    | Supersedes 7931-67-480-1. No drive pulley   |
| DE-ICE KIT PR               | 106309          | DE-ICE KIT (ONE PROP)          | 1        | Prop    | Supersedes 7931-67-480-3. With drive pulley |
| DE-ICE KIT PR               | 7931-67-480-1   | DE-ICE KIT (ONE PROP)          | 1        | Prop    | Superseded by 106308                        |
| DE-ICE KIT PR               | 7931-67-480-3   | DE-ICE KIT (ONE PROP)          | 1        | Prop    | Superseded by 106309                        |
| MTG BOLT/STUD               | B-3339-1        | BOLT,MOUNTING,9/16-18,12 POINT | 8        | Prop    |   |
| OVERHAUL KIT                | HC-D4N-2D(A)-OH | O/H KIT                        | 1        | Prop    | For aftermarket use only                    |

# HARTZELL

## APPLICATION GUIDE

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PILATUS

IDS No.: 1448 Rev.: 6 IC Date: 01/30/2019

**Model:** PC-7 MKII  
**Trade Name:** TURBO TRAINER  
**Aircraft T.C./STC:** Unknown  
**Propeller Model:** HC-D4N-2E  
**Propeller T.C.:** P10NE

**Modifier:**  
**Engine Model:** PT6A-25C  
**Power:** 700 HP @ 2040 RPM  
**Placard/Restr:** Ground Operation: "Prohibit sustained operation at propeller speeds between 1200 and 1700 RPM.

**Blade Model(s):** D9512A  
D9512AK  
**Prop Diameter:** 96.0" TO 95.0"

**Notes:** Refer to Manual 149 for Airworthiness Limitations.

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 16.0 +-0.1  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 86.0 +-1.0  
**Cwt Angle:**

### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| Item Type                   | Item Number   | Description                       | Quantity | Qty Per | Comments                                     |
|-----------------------------|---------------|-----------------------------------|----------|---------|--|
| PROPELLER                   | D4N00016S     | HC-D4N-2E/D9512A/D-630-1P         | 1        | A/C     |  |
| PROPELLER                   | D4N00016SKD   | HC-D4N-2E/D9512A/D-630-1P         | 1        | A/C     |  |
| PROPELLER                   | D4N00017S     | HC-D4N-2E/D9512AK/D-630-1P        | 1        | A/C     |  |
| PROPELLER                   | D4N00017SKD   | HC-D4N-2E/D9512AK/D-630-1P        | 1        | A/C     |  |
| PROPELLER                   | D4N00018SKD   | HC-D4N-2E/D9512AK/D-630-1         | 1        | A/C     |  |
| PROPELLER                   | D4N00019S     | HC-D4N-2E/D9512AK/107562          | 1        | A/C     |  |
| PROPELLER                   | D4N00019SKD   | HC-D4N-2E/D9512AK/107562          | 1        | A/C     |  |
| BLADE                       | D9512A        | PCP:BLADE UNIT, ALUMINUM          | 4        | Prop    |  |
| BLADE                       | D9512AK       | PCP:BLADE UNIT, ALUMINUM          | 4        | Prop    |  |
| SPINNER                     | 107562        | SPINNER ASSEMBLY                  | 1        | Prop    |  |
| SPINNER                     | 107562P       | SPINNER ASSEMBLY                  | 1        | Prop    |  |
| SPINNER                     | D-630-1       | SPINNER ASSEMBLY                  | 1        | Prop    |  |
| SPINNER                     | D-630-1P      | SPINNER ASSEMBLY                  | 1        | Prop    |  |
| SPIN MTG KIT                | B-3384-2H     | BOLT, 1/4-28, HEX HEAD            | 8        | Prop    |  |
| SPIN MTG KIT                | B-3851-0432   | WASHER                            | 8        | Prop    |  |
| SP MT KIT DE-ICE            | A-2070-7      | SCREW, 1/4-28, BUTTON HEAD        | 8        | Prop    | No drive pulley                              |
| SP MT KIT DE-ICE            | B-3384-9H     | BOLT, 1/4-28, HEX HEAD            | 8        | Prop    | With drive pulley                            |
| SP MT KIT DE-ICE            | B-3851-0432   | WASHER                            | 8        | Prop    | With drive pulley                            |
| COUNTERWEIGHT               | C-472-2       | PCP:COUNTERWEIGHT                 | 1        | Blade   |  |
| COUNTERWEIGHT SLUG A-1712   |               | BOLT,3/8-24,HEX HEAD              | 1        | Blade   |  |
| COUNTERWEIGHT SLUG A-1713   |               | PCP: SLUG, COUNTERWEIGHT          | 4        | Blade   |  |
| COUNTERWEIGHT SLUG A-2043-1 |               | NUT,3/8-24,HEX,SELF-LOCKING       | 1        | Blade   |  |
| DE-ICER                     | 4H2271-10     | DE-ICE BOOT                       | 1        | Blade   | Supersedes 7931-4E2271-10                    |
| DE-ICE KIT PR               | 106308        | DE-ICE KIT (ONE PROP)             | 1        | Prop    | Supersedes 7931-67-480-1. No drive pulley.   |
| DE-ICE KIT PR               | 106309        | DE-ICE KIT (ONE PROP)             | 1        | Prop    | Supersedes 7931-67-480-3. With drive pulley. |
| DE-ICE KIT PR               | 7931-67-480-1 | DE-ICE KIT (ONE PROP)             | 1        | Prop    | Superseded by 106308                         |
| DE-ICE KIT PR               | 7931-67-480-3 | DE-ICE KIT (ONE PROP)             | 1        | Prop    | Superseded by 106309                         |
| MTG BOLT/STUD               | B-3339-1      | BOLT, MOUNTING, 9/16-18, 12 POINT | 8        | Prop    |  |
| OVERHAUL KIT                | HC-D4N-2E-OH  | O/H KIT                           | 1        | Prop    | For aftermarket use only                     |

# HARTZELL

## APPLICATION GUIDE 159

PILATUS

IDS No.: 734 Rev.: 3 IC Date: 08/14/2015

Model: PC-9

Modifier:

Trade Name:

Engine Model: PT6A-62

Aircraft T.C./STC: Unknown

Propeller Model: HC-D4N-2A

Power: 950 HP @ 2000 RPM

Propeller T.C.: P10NE

Placard/Restr: Ground Operation: "Prohibit sustained operation at propeller speeds between 1200 and 1700 RPM.

Blade Model(s): D9512A  
D9512AK

Notes: Refer to Manual 149 for Airworthiness Limitations.

Prop Diameter: 96" TO 95"

### Prop Setup:

Ref. Radius: 30

Startlock Angle: NA

Reverse Angle: NA

Feather/High Angle: 86.0 +-1.0

Low Pitch Angle: 14.0 +-0.1

Cwt Angle:

Stud Protrusion

### Non-HPI Items:

Non-HPI Spinner:

Non-HPI Governor:

### Hartzell Approved Items:

| Item Type                   | Item Number   | Description                    | Quantity | Qty Per | Comments                                     |
|-----------------------------|---------------|--------------------------------|----------|---------|--|
| PROPELLER                   | D4N00002      | HC-D4N-2A/D9512A               | 1        | A/C     |  |
| PROPELLER                   | D4N00002S     | HC-D4N-2A/D9512A/D-630-1P      | 1        | A/C     |  |
| PROPELLER                   | D4N00002SKD   | HC-D4N-2A/D9512A/D-630-1P      | 1        | A/C     |  |
| PROPELLER                   | D4N00004      | HC-D4N-2A/D9512AK              | 1        | A/C     |  |
| PROPELLER                   | D4N00004S     | HC-D4N-2A/D9512AK/D-630-1P     | 1        | A/C     |  |
| BLADE                       | D9512A        | PCP:BLADE UNIT, ALUMINUM       | 4        | Prop    |  |
| BLADE                       | D9512AK       | PCP:BLADE UNIT, ALUMINUM       | 4        | Prop    |  |
| SPINNER                     | D-630-1P      | SPINNER ASSEMBLY               | 1        | Prop    |  |
| SPIN MTG KIT                | B-3384-2H     | BOLT, 1/4-28, HEX HEAD         | 8        | Prop    | No drive pulley                              |
| SPIN MTG KIT                | B-3384-9H     | BOLT, 1/4-28, HEX HEAD         | 8        | Prop    | With drive pulley                            |
| SPIN MTG KIT                | B-3851-0432   | WASHER                         | 8        | Prop    |  |
| SP MT KIT DE-ICE            | A-2070-7      | SCREW, 1/4-28, BUTTON HEAD     | 8        | Prop    |  |
| COUNTERWEIGHT               | C-472-2       | PCP:COUNTERWEIGHT              | 1        | Blade   |  |
| COUNTERWEIGHT SLUG A-1712   |               | BOLT,3/8-24,HEX HEAD           | 1        | Blade   |  |
| COUNTERWEIGHT SLUG A-1713   |               | PCP: SLUG, COUNTERWEIGHT       | 4        | Blade   |  |
| COUNTERWEIGHT SLUG A-2043-1 |               | NUT,3/8-24,HEX,SELF-LOCKING    | 1        | Blade   |  |
| DE-ICER                     | 4H2271-10     | DE-ICE BOOT                    | 1        | Blade   | Supersedes 7931-4E2271-10                    |
| DE-ICE KIT PR               | 106308        | DE-ICE KIT (ONE PROP)          | 1        | Prop    | Supersedes 7931-67-480-1. No drive pulley.   |
| DE-ICE KIT PR               | 106309        | DE-ICE KIT (ONE PROP)          | 1        | Prop    | Supersedes 7931-67-480-3. With drive pulley. |
| DE-ICE KIT PR               | 7931-67-480-1 | DE-ICE KIT (ONE PROP)          | 1        | Prop    | Superseded by 106308                         |
| DE-ICE KIT PR               | 7931-67-480-3 | DE-ICE KIT (ONE PROP)          | 1        | Prop    | Superseded by 106309                         |
| MTG BOLT/STUD               | B-3339-1      | BOLT,MOUNTING,9/16-18,12 POINT | 8        | Prop    |  |
| OVERHAUL KIT                | HC-D4N-2A-OH  | O/H KIT                        | 1        | Prop    | For aftermarket use only                     |

# HARTZELL

## APPLICATION GUIDE 159

PILATUS

IDS No.: 1451 Rev.: 3 IC Date: 08/14/2015

**Model:** PC-9  
**Trade Name:**  
**Aircraft T.C./STC:** Unknown  
**Propeller Model:** HC-D4N-2AA  
**Propeller T.C.:** P10NE

**Modifier:**  
**Engine Model:** PT6A-62  
**Power:** 950 HP @ 2000 RPM  
**Placard/Restr:** Ground Operation: "Prohibit sustained operation at propeller speeds between 1200 and 1700 RPM."

**Blade Model(s):** D9512AEK  
**Prop Diameter:** 96" TO 95"

**Notes:** Refer to Manual 149 for Airworthiness Limitations.

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 14.0 +-0.1  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 86.0 +-1.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u>            | <u>Item Number</u> | <u>Description</u>             | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>                              |
|-----------------------------|--------------------|--------------------------------|-----------------|----------------|--|
| PROPELLER                   | D4N00011S          | HC-D4N-2AA/D9512AEK/D-630-1P   | 1               | A/C            |  |
| BLADE                       | D9512AEK           | PCP:BLADE UNIT, ALUMINUM       | 4               | Prop           |  |
| SPINNER                     | D-630-1P           | SPINNER ASSEMBLY               | 1               | Prop           |  |
| SPIN MTG KIT                | A-2070-7           | SCREW, 1/4-28, BUTTON HEAD     | 8               | Prop           | No drive pulley                              |
| COUNTERWEIGHT               | C-472-2            | PCP:COUNTERWEIGHT              | 1               | Blade          |  |
| COUNTERWEIGHT SLUG A-1712   |                    | BOLT,3/8-24,HEX HEAD           | 1               | Blade          |  |
| COUNTERWEIGHT SLUG A-1713   |                    | PCP: SLUG, COUNTERWEIGHT       | 4               | Blade          |  |
| COUNTERWEIGHT SLUG A-2043-1 |                    | NUT,3/8-24,HEX,SELF-LOCKING    | 1               | Blade          |  |
| DE-ICER                     | 4H2271-10          | DE-ICE BOOT                    | 1               | Blade          | Supersedes 7931-4E2271-10                    |
| DE-ICE KIT PR               | 106308             | DE-ICE KIT (ONE PROP)          | 1               | Prop           | Supersedes 7931-67-480-1. No drive pulley.   |
| DE-ICE KIT PR               | 106309             | DE-ICE KIT (ONE PROP)          | 1               | Prop           | Supersedes 7931-67-480-3. With drive pulley. |
| DE-ICE KIT PR               | 7931-67-480-1      | DE-ICE KIT (ONE PROP)          | 1               | Prop           | Superseded by 106308                         |
| DE-ICE KIT PR               | 7931-67-480-3      | DE-ICE KIT (ONE PROP)          | 1               | Prop           | Superseded by 106309                         |
| MTG BOLT/STUD               | B-3339-1           | BOLT,MOUNTING,9/16-18,12 POINT | 8               | Prop           |  |
| OVERHAUL KIT                | HC-D4N-2A-OH       | O/H KIT                        | 1               | Prop           | For aftermarket use only                     |



# HARTZELL

## APPLICATION GUIDE

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PILATUS

IDS No.: 735 Rev.: 4 IC Date: 05/04/2017

Model: PC-12, PC-12/45, PC-12/47  
 Trade Name:  
 Aircraft T.C./STC: A78EU  
 Propeller Model: HC-E4A-3D  
 Propeller T.C.: P10NE

Modifier:  
 Engine Model: PT6A-67B  
 Power: 1200 HP @ 1700 RPM  
 Placard/Restr: Stabilized ground operation is prohibited between 350 and 950 RPM. The aircraft weight limit is 5511 lbs. minimum.

Blade Model(s): E10477  
 E10477K  
 E10477K\*1  
 Prop Diameter: 105.0" TO 104.0"

Notes:

**Prop Setup:**

Ref. Radius: 42  
 Reverse Angle: -17.5 +-0.5  
 Low Pitch Angle: 19.0 +-0.2  
 Stud Protrusion

Startlock Angle: NA  
 Feather/High Angle: 79.6 +-0.5  
 Cwt Angle:

**Non-HPI Items:**

Non-HPI Spinner:

Non-HPI Governor:

**Hartzell Approved Items:**

| Item Type     | Item Number   | Description                    | Quantity | Qty Per | Comments                      |
|---------------|---------------|--------------------------------|----------|---------|-------------------------------|
| PROPELLER     | E4A00110      | HC-E4A-3D/E10477K              | 1        | A/C     |                               |
| PROPELLER     | E4A00110KD    | HC-E4A-3D/E10477K              | 1        | A/C     |                               |
| PROPELLER     | E4A00110S     | HC-E4A-3D/E10477K/D-5500-1     | 1        | A/C     |                               |
| PROPELLER     | E4A00111      | HC-E4A-3D/E10477K/BULK/DE-ICE  | 1        | A/C     |                               |
| PROPELLER     | E4A00111KD    | HC-E4A-3D/E10477K/BULK/DE-ICE  | 1        | A/C     |                               |
| PROPELLER     | E4A00111S     | HC-E4A-3D/E10477K/D-5500-1P    | 1        | A/C     |                               |
| PROPELLER     | E4A00111SKD   | HC-E4A-3D/E10477K/D-5500-1P    | 1        | A/C     |                               |
| PROPELLER     | E4A00113SKD   | HC-E4A-3D/E10477K[*1/D-5500-1P | 1        | A/C     |                               |
| BLADE         | E10477        | PCP:BLADE UNIT, ALUMINUM       | 4        | Prop    |                               |
| BLADE         | E10477K       | PCP:BLADE UNIT, ALUM [6,1,1]   | 4        | Prop    | Silver painted blade          |
| BLADE         | E10477K*1     | PCP:BLADE UNIT, ALUM [1,1,1]   | 4        | Prop    | Gray painted blade            |
| SPINNER       | D-5500-1      | SPINNER ASSEMBLY               | 1        | Prop    |                               |
| SPINNER       | D-5500-1F     | SPINNER ASSEMBLY               | 1        | Prop    |                               |
| SPINNER       | D-5500-1P     | SPINNER ASSEMBLY               | 1        | Prop    |                               |
| SPIN MTG KIT  | A-2070-10     | SCREW, 1/4-28, BUTTON HEAD     | 8        | Prop    |                               |
| COUNTERWEIGHT | D-6021-1      | PCP:COUNTERWEIGHT              | 1        | Blade   |                               |
| COUNTERWEIGHT | D-6021-3      | PCP:COUNTERWEIGHT              | 1        | Blade   | Superseeds D-6021-1           |
| DE-ICER       | 102855        | DE-ICE BOOT                    | 1        | Blade   | Superseeds 4E, 4H3051-10      |
| DE-ICER       | 4H3051-10     | DE-ICE BOOT                    | 1        | Blade   | Supersedes 7931-4E3051-10     |
| DE-ICE KIT PR | 103253        | DE-ICE KIT (ONE PROP)          | 1        | Prop    | Superseeds 7931-67-925-1      |
| DE-ICE KIT PR | 7931-67-925-1 | DE-ICE KIT (ONE PROP)          | 1        | Prop    | Used with 4H3051-10 boot only |
| MTG BOLT/STUD | B-3347        | BOLT,MOUNTING,9/16-18,12 POINT | 12       | Prop    |                               |
| MISC ACCES    | A-3074        | BLOCK, BETA FEEDBACK- ASSEMBLY | 1        | Prop    |                               |
| OVERHAUL KIT  | HC-E4A-3D-OH  | O/H KIT                        | 1        | Prop    | For aftermarket use only      |

# HARTZELL

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PILATUS

IDS No.: 3538 Rev.: - IC Date: 05/25/2017

Model: PC-12/(45,47)

Modifier: Finnoff

Trade Name:

Engine Model: PT6A-67P

Aircraft T.C./STC: SA02266LA

Power: 1200 HP @ 1700 RPM

Propeller Model: HC-E4A-3D

Placard/Restr: Stabilized ground operation is prohibited between 350 and 950 RPM. The aircraft weight limit is 5511 lbs. minimum.

Propeller T.C.: P10NE

Notes:

Blade Model(s): E10477SK

Prop Diameter: 105.0" TO 104.0"

### Prop Setup:

Ref. Radius: 42

Startlock Angle: NA

Reverse Angle: -17.5 +- 0.5

Feather/High Angle: 79.6 +- 0.5

Low Pitch Angle: 19.0 +- 0.2

Cwt Angle:

Stud Protrusion

### Non-HPI Items:

Non-HPI Spinner:

Non-HPI Governor:

### Hartzell Approved Items:

| Item Type        | Item Number  | Description                    | Quantity | Qty Per | Comments  |
|------------------|--------------|--------------------------------|----------|---------|---|
| PROPELLER        | E4A00112     | HC-E4A-3D/E10477SK/BULK/DE-ICE | 1        | A/C     |   |
| PROPELLER        | E4A00112KD   | HC-E4A-3D/E10477SK/BULK/DE-ICE | 1        | A/C     |   |
| PROPELLER        | E4A00112S    | HC-E4A-3D/E10477SK/D-5500-1P   | 1        | A/C     | De-Iced propeller, includes polished spinner                    |
| PROPELLER        | E4A00112SKD  | HC-E4A-3D/E10477SK/D-5500-1P   | 1        | A/C     |   |
| BLADE            | E10477SK     | PCP:BLADE UNIT, ALUMINUM       | 4        | Prop    |   |
| SPINNER          | D-5500-1     | SPINNER ASSEMBLY               | 0        | Prop    | Buffed spinner (surface suitable for paint)                     |
| SPINNER          | D-5500-1P    | SPINNER ASSEMBLY               | 1        | Prop    | Polished spinner  |
| SP MT KIT DE-ICE | A-2070-10    | SCREW, 1/4-28, BUTTON HEAD     | 8        | Prop    | Included with every de-iced prop on this IDS                    |
| COUNTERWEIGHT    | D-6021-3     | PCP:COUNTERWEIGHT              | 1        | Blade   | Supersedes D-6021-1   |
| DE-ICER          | 102855       | DE-ICE BOOT                    | 1        | Blade   | Supersedes 4E,4H3051-10   |
| DE-ICE KIT PR    | 103253       | DE-ICE KIT (ONE PROP)          | 1        | Prop    | Supersedes 7931-67-925-1. Use only with D-6021-3 counterweight. |
| MTG BOLT/STUD    | B-3347       | BOLT,MOUNTING,9/16-18,12 POINT | 12       | Prop    | Included with every prop on this IDS                            |
| MISC ACCES       | A-3074       | BLOCK, BETA FEEDBACK- ASSEMBLY | 1        | Prop    | Included with every prop on this IDS                            |
| OVERHAUL KIT     | HC-E4A-3D-OH | O/H KIT                        | 1        | Prop    | For aftermarket use only  |

# HARTZELL

## APPLICATION GUIDE

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PILATUS

IDS No.: 2667

Rev.: 4

IC Date: 10/01/2015

Model: PC-12/47E

Trade Name:

Aircraft T.C./STC: A78EU

Propeller Model: HC-E4A-3D

Propeller T.C.: P10NE

Modifier:

Engine Model: PT6A-67P

Power: 1200 HP @ 1700 RPM

Placard/Restr: Stabilized ground operation is prohibited between 350 and 950 RPM. The aircraft weight limit is 5511 lbs. minimum.

Blade Model(s): E10477SK

Prop Diameter: 105.0" TO 104.0"

Notes:

### Prop Setup:

Ref. Radius: 42

Reverse Angle: -17.5 +- 0.5

Low Pitch Angle: 19.0 +- 0.2

Stud Protrusion

Startlock Angle: NA

Feather/High Angle: 79.6 +- 0.5

Cwt Angle:

### Non-HPI Items:

Non-HPI Spinner:

Non-HPI Governor:

### Hartzell Approved Items:

| Item Type        | Item Number   | Description                    | Quantity | Qty Per | Comments   |
|------------------|---------------|--------------------------------|----------|---------|--|
| PROPELLER        | E4A00112      | HC-E4A-3D/E10477SK/BULK/DE-ICE | 1        | A/C     | De-Iced propeller, includes spinner bulkhead but no dome                 |
| PROPELLER        | E4A00112KD    | HC-E4A-3D/E10477SK/BULK/DE-ICE | 1        | A/C     | De-Iced propeller, includes spinner bulkhead but no dome                 |
| PROPELLER        | E4A00112S     | HC-E4A-3D/E10477SK/D-5500-1P   | 1        | A/C     | De-Iced propeller, includes polished spinner                             |
| PROPELLER        | E4A00112SKD   | HC-E4A-3D/E10477SK/D-5500-1P   | 1        | A/C     | De-Iced propeller, includes polished spinner, dis-assembled for shipment |
| PROPELLER        | E4A00116S     | HC-E4A-3D/E10477SK/D-5500-1F   | 1        | A/C     | De-Iced propeller, includes chrome spinner                               |
| PROPELLER        | E4A00116SKD   | HC-E4A-3D/E10477SK/D-5500-1F   | 1        | A/C     | De-Iced propeller, includes chrome spinner, dis-assembled for shipment   |
| BLADE            | E10477SK      | PCP:BLADE UNIT, ALUMINUM       | 4        | Prop    | Booted blade   |
| SPINNER          | D-5500-1      | SPINNER ASSEMBLY               | 0        |         | Buffed spinner (surface suitable for paint)                              |
| SPINNER          | D-5500-1F     | SPINNER ASSEMBLY               | 1        | Prop    | Spinner has Chrome Finish  |
| SPINNER          | D-5500-1P     | SPINNER ASSEMBLY               | 1        | Prop    | Polished spinner   |
| SP MT KIT DE-ICE | A-2070-10     | SCREW, 1/4-28, BUTTON HEAD     | 8        | Prop    | Included with every de-iced prop on this IDS                             |
| COUNTERWEIGHT    | D-6021-1      | PCP:COUNTERWEIGHT              | 1        | Blade   |  |
| COUNTERWEIGHT    | D-6021-3      | PCP:COUNTERWEIGHT              | 1        | Blade   | Supersedes D-6021-1  |
| DE-ICER          | 102855        | DE-ICE BOOT                    | 1        | Blade   | Supersedes 4E,4H3051-10  |
| DE-ICER          | 4H3051-10     | DE-ICE BOOT                    | 1        | Blade   | Replaced by 102855 for new production, blade component                   |
| DE-ICE KIT PR    | 103253        | DE-ICE KIT (ONE PROP)          | 1        | Prop    | Supersedes 7931-67-925-1. Use only with D-6021-3 counterweight.          |
| DE-ICE KIT PR    | 7931-67-925-1 | DE-ICE KIT (ONE PROP)          | 1        | Prop    |  |
| MTG BOLT/STUD    | B-3347        | BOLT,MOUNTING,9/16-18,12 POINT | 12       | Prop    | Included with every prop on this IDS                                     |
| MISC ACCES       | A-3074        | BLOCK, BETA FEEDBACK- ASSEMBLY | 1        | Prop    | Included with every prop on this IDS                                     |
| OVERHAUL KIT     | HC-E4A-3D-OH  | O/H KIT                        | 1        | Prop    | For aftermarket use only   |

# HARTZELL

## APPLICATION GUIDE

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**PILATUS**

IDS No.: 2452      Rev.: 5      IC Date: 06/06/2018

**Model:** PC-21  
**Trade Name:**  
**Aircraft T.C./STC:** Unknown  
**Propeller Model:** HC-E5A-2  
**Propeller T.C.:** P20NE

**Modifier:**  
**Engine Model:** PT6A-68B  
**Power:** 1600 HP @ 2000 RPM  
**Placard/Restr:** Avoid continuous ground operation above 1600 RPM when surface winds are from behind the propeller disc.

**Blade Model(s):** E9193B  
 E9193K  
 E9193K\*2

**Notes:** Reference Manual 147 for Airworthiness Limitations.

**Prop Diameter:** 94

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.0 +/-0.2  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 86.9 +/-0.5  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:** N/A

**Hartzell Approved Items:**

| <u>Item Type</u>   | <u>Item Number</u> | <u>Description</u>             | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>   |
|--------------------|--------------------|--------------------------------|-----------------|----------------|---|
| PROPELLER          | E5A00700           | HC-E5A-2/E9193B                | 1               | A/C            | Not available for new production. Superseded by E5A00752.   |
| PROPELLER          | E5A00700KD         | HC-E5A-2/E9193B                | 1               | A/C            | Not available for new production. Superseded by E5A00752KD  |
| PROPELLER          | E5A00700S          | HC-E5A-2/E9193B/E-7480         | 1               | A/C            | Not available for new production. Superseded by E5A00752S   |
| PROPELLER          | E5A00700SKD        | HC-E5A-2/E9193B/E-7480         | 1               | A/C            | Not available for new production. Superseded by E5A00752SKD   |
| PROPELLER          | E5A00750           | HC-E5A-2/E9193K                | 1               | A/C            | Not available for new production. Superseded by E5A00752.   |
| PROPELLER          | E5A00750KD         | HC-E5A-2/E9193K                | 1               | A/C            | Not available for new production. Superseded by E5A00752KD  |
| PROPELLER          | E5A00750S          | HC-E5A-2/E9193K/E-7480         | 1               | A/C            | Not available for new production. Superseded by E5A00752S   |
| PROPELLER          | E5A00750SKD        | HC-E5A-2/E9193K/E-7480         | 1               | A/C            | Not available for new production. Superseded by E5A00752SKD   |
| PROPELLER          | E5A00751           | HC-E5A-2/E9193K/BULK/DE-ICE    | 1               | A/C            | Not available for new production. Superseded by E5A00752.   |
| PROPELLER          | E5A00751KD         | HC-E5A-2/E9193K/BULK/DE-ICE    | 1               | A/C            | Not available for new production. Superseded by E5A00752KD  |
| PROPELLER          | E5A00752           | HC-E5A-2/E9193K*2/BULK/DE-ICE  | 1               | A/C            | Supersedes E5A00700, E5A00750 and E5A00751.   |
| PROPELLER          | E5A00752KD         | HC-E5A-2/E9193K*2/BULK/DE-ICE  | 1               | A/C            | Supersedes E5A00700KD, E5A00750KD, and E5A00751KD.  |
| PROPELLER          | E5A00752S          | HC-E5A-2/E9193K*2/E-7480       | 1               | A/C            | Supersedes E5A00700S and E5A00750S  |
| PROPELLER          | E5A00752SKD        | HC-E5A-2/E9193K*2/E-7480       | 1               | A/C            | Supersedes E5A00700SKD and E5A00750SKD.   |
| BLADE              | E9193B             | PCP:BLADE ASSY, COMP,4H4072-2  | 5               | Prop           | Not available for new production. Superseded by E9193K*2  |
| BLADE              | E9193K             | PCP:BLADE ASSY, COMP,4H4072-1  | 5               | Prop           | Not available for new production. Superseded by E9193K*2  |
| BLADE              | E9193K*2           | PCP: BLADE ASSEMBLY, COMPOSITE | 5               | Prop           | Supersedes E9193K and E9193B. Use only with 107150 Counterweight Clamp. (See Service Bulletin 379)    |
| SPINNER            | E-7480             | SPINNER ASSEMBLY, COMPOSITE    | 1               | Prop           |   |
| COUNTERWEIGHT      | C-472-16           | PCP:COUNTERWEIGHT              | 1               | Blade          |   |
| COUNTERWEIGHT SLUG | 107150             | PCP: CLAMP, COUNTERWEIGHT      | 1               | Blade          | Supersedes E-7486. Component of E9193K*2 blade. Used only with prop P/Ns that contain E9193K*2 blades |

|                           |                           |                                  |       |  |                             |
|---------------------------|---------------------------|----------------------------------|-------|--|-----------------------------|
| COUNTERWEIGHT SLUG E-7486 | PCP: CLAMP, COUNTERWEIGHT | 1                                | Blade | Not available for new production. Superseded by 107150. Component of E9193(B)(K) blade, used only with prop P/Ns that contain E9193(B)(K) blades |                             |
| DE-ICER                   | 4H4072-1                  | DE-ICE BOOT, WIRE                | 1     | Blade  | Supersedes 7931-4E4072-1    |
| DE-ICER                   | 4H4072-2                  | FAIRING, RUBBER                  | 1     | Blade  | Supersedes 7931-4E4072-2    |
| DE-ICE KIT PR             | 103769                    | DE-ICE KIT (ONE PROP)            | 1     | Prop   |                             |
| MTG BOLT/STUD             | C-6006                    | NUT, MOUNTING, 9/16-18, 12 POINT | 12    | Prop   |                             |
| MISC ACCES                | A-6741-158                | EROSION TAPE, 2" WIDE, 108' RL   | 0     | Blade  | Included in blade BOM (12") |
| OVERHAUL KIT              | HC-E5A-2-OH               | O/H KIT                          | 1     | Prop   | For aftermarket use only    |

### PINE AIR

**Model:** see KWAD

**Trade Name:**

**Aircraft T.C./STC:**

**Propeller Model:**

**Propeller T.C.:**

**Blade Model(s):**

**Prop Diameter:**

**Prop Setup:**

**Ref. Radius:**

**Reverse Angle:**

**Low Pitch Angle:**

**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

**IDS No.:** 736

**Rev.:** -

**DM Date:** 10/01/1992

**Modifier:**

**Engine Model:**

**Power:** HP @ RPM

**Placard/Restr:**

**Notes:**

**Startlock Angle:**

**Feather/High Angle:**

**Cwt Angle:**

**Non-HPI Governor:**

# HARTZELL

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Piper

**Model:** PA-12, PA-12S, PA-14  
**Trade Name:** Super Cruiser, Family Cruiser  
**Aircraft T.C./STC:** SA03328CH  
**Propeller Model:** HC-C2YR-1N  
**Propeller T.C.:** P-920  
**Blade Model(s):** NG8301-1  
**Prop Diameter:** 82"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** 10.0 +/- 0.2  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 3795      **Rev.:** 1      **IC Date:** 11/06/2020

**Modifier:** Svenn's Aviation  
**Engine Model:** O-360-A1(A,D,P) O-360-C1(A,C,E,G)  
**Power:** 180 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:**  
**Feather/High Angle:** 30.0 +/- 1.0  
**Cwt Angle:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>        | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|---------------------------|-----------------|----------------|-----------------|
| PROPELLER        | C2R40800           | HC-C2YR-1N/NG8301-1/SM63  | 1               | A/C            |                 |
| BLADE            | NG8301-1           | PCP:BLADE ASSY, COMPOSITE | 2               | Prop           |                 |
| SPINNER          | 106574             | SPINNER ASSEMBLY          | 1               | Prop           | primed          |
| SPINNER          | 106574F1           | SPINNER ASSEMBLY          | 1               | Prop           | painted white   |
| SPINNER          | 106574F2           | SPINNER ASSEMBLY          | 1               | Prop           | painted silver  |
| SPIN MTG KIT     | A-2476-63          | SPINNER - MTG KIT         | 1               | Prop           |                 |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20    | 6               | Prop           |                 |

# HARTZELL

## APPLICATION GUIDE

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PIPER

IDS No.: 3248 Rev.: 2 IC Date: 07/07/2015

**Model:** PA-24  
**Trade Name:** COMANCHE  
**Aircraft T.C./STC:** SA00631CH  
**Propeller Model:** HC-C2YR-1BFP  
**Propeller T.C.:** P-920  
**Blade Model(s):** F7497\*1  
**Prop Diameter:** 74"-72.5"

**Modifier:** Hartzell Propeller Inc.  
**Engine Model:** O-360-A1(A,D)  
**Power:** 180 HP @ 2700 RPM  
**Placard/Restr:** None  
**Notes:**

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** 14.8 +-0.2  
**Stud Protrusion**

**Startlock Angle:**  
**Feather/High Angle:** 29.0 +-1.0  
**Cwt Angle:**

### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>             | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|--------------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | C2R10704           | HC-C2YR-1BFP/F7497[*1]         | 1               | A/C            |                          |
| BLADE            | F7497*1            | PCP:BLADE UNIT, ALUM [6,16,11] | 2               | Prop           |                          |
| SPINNER          | 103585             | SPINNER ASSEMBLY, COMPOSITE    | 1               | Prop           |                          |
| SPINNER          | 103585F1           | SPINNER ASSEMBLY, COMPOSITE    | 1               | A/C            |                          |
| SPINNER          | 103585F2           | SPINNER ASSEMBLY, COMPOSITE    | 1               | A/C            |                          |
| SPINNER          | 835-54             | SPINNER ASSEMBLY, "CNC"        | 1               | Prop           |                          |
| SPINNER          | 835-54P            | SPINNER ASSEMBLY, "CNC"        | 1               | Prop           |                          |
| SPINNER          | 835-58             | SPINNER ASSEMBLY               | 1               | Prop           |                          |
| SPINNER          | 835-58P            | SPINNER ASSEMBLY               | 1               | Prop           |                          |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20         | 6               | Prop           |                          |
| OVERHAUL KIT     | HC-C2YR-1BF-OH     | O/H KIT                        | 1               | Prop           | For aftermarket use only |

# HARTZELL

## APPLICATION GUIDE

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**PIPER**

**Model:** PA-28-236  
**Trade Name:** Dakota  
**Aircraft T.C./STC:** SA03321CH  
**Propeller Model:** HC-F2YR-1FP  
**Propeller T.C.:** P27EA  
**Blade Model(s):** F8068\*1  
**Prop Diameter:** 80.0" TO 78.0"

**Prop Setup:**

**Ref. Radius:** 30"  
**Reverse Angle:** N/A  
**Low Pitch Angle:** 16.3 +/-0.2  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number   | Description                  | Quantity | Qty Per | Comments                 |
|---------------|---------------|------------------------------|----------|---------|--------------------------|
| PROPELLER     | F2R10300      | HC-F2YR-1FP/F8068[*1]/SM4    | 1        | A/C     |                          |
| BLADE         | F8068*1       | PCP:BLADE UNIT, ALUM [6,1,5] | 2        | Prop    |                          |
| SPINNER       | C-3568        | SPINNER ASSEMBLY             | 1        | Prop    |                          |
| SPINNER       | C-3568-P      | SPINNER ASSEMBLY             | 1        | Prop    |                          |
| GOVERNOR      | F4-21         | GOVERNOR ASSEMBLY, F-4-( )   | 1        | A/C     |                          |
| SPIN MTG KIT  | A-2476-4      | SPINNER - MTG KIT            | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2067        | STUD, MOUNTING, 1/2-20       | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-F2YR-1F-OH | O/H KIT                      | 1        | Prop    | For aftermarket use only |

**IDS No.:** 3271      **Rev.:** 3      **IC Date:** 07/07/2015

**Modifier:** Professional Pilots Inc.  
**Engine Model:** O-540-J3A5D  
**Power:** 235 HP @ 2400 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** N/A  
**Feather/High Angle:** 32.0 +/-2.0  
**Cwt Angle:**

**Non-HPI Governor:**

**PIPER**

**Model:** PA-31T, T1  
**Trade Name:** CHEYENNE  
**Aircraft T.C./STC:** SA00863SE  
**Propeller Model:** HC-B3TN-3B  
**Propeller T.C.:** P15EA  
**Blade Model(s):** T10178B-8R  
**Prop Diameter:** 93.5

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** -11.0 +/-0.5  
**Low Pitch Angle:** 20.2 +/-0.1  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:** PIPER

**Hartzell Approved Items:**

| Item Type     | Item Number | Description                       | Quantity | Qty Per | Comments |
|---------------|-------------|-----------------------------------|----------|---------|----------|
| BLADE         | T10178B-8R  | BLADE (NO.6), 4E1188-6 BOOT       | 3        | Prop    |          |
| MTG BOLT/STUD | B-3339      | BOLT, MOUNTING, 9/16-18, 12 POINT | 8        | Prop    |          |

**IDS No.:** 2833      **Rev.:** -      **DM Date:** 01/05/2009

**Modifier:** Blackhawk Modifications, Inc.  
**Engine Model:** PT6A-135, -135A  
**Power:** 620 HP @ 1900 RPM  
**Placard/Restr:**  
**Notes:** PA-31T uses 620 HP engine rating; PA-31T1 uses 500 HP engine rating

**Startlock Angle:** N/A  
**Feather/High Angle:** 88.2 +/-0.5  
**Cwt Angle:** POSITIVE

**Non-HPI Governor:**



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PIPER

**Model:** PA-36-285, PA-36-300  
**Trade Name:** Brave  
**Aircraft T.C./STC:** SA1291CE  
**Propeller Model:** HC-C3YR-1RF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** F8475R  
**Prop Diameter:** 86" to 80"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** 11.0 +/- 0.2  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 3216      **Rev.:** 1      **IC Date:** 07/16/2015

**Modifier:** Clinton R. Anderson  
**Engine Model:** IO-720-A1B  
**Power:** 400 HP @ 2650 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:**  
**Feather/High Angle:** 25.0 +/- 0.5  
**Cwt Angle:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>       | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|--------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | C3R00094           | HC-C3YR-1RF/F8475R       | 1               | A/C            |                          |
| BLADE            | F8475R             | PCP:BLADE UNIT, ALUMINUM | 3               | Prop           |                          |
| SPINNER          | C-3552-1           | SPINNER ASSEMBLY         | 1               | Prop           |                          |
| GOVERNOR         | F4-1A              | IDS ITEM                 | 1               | A/C            |                          |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20   | 6               | Prop           |                          |
| OVERHAUL KIT     | HC-C3YR-1RF-OH     | O/H KIT                  | 1               | Prop           | For aftermarket use only |

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PIPER

**Model:** PA-36-300  
**Trade Name:** Brave  
**Aircraft T.C./STC:** STC SVA 529  
**Propeller Model:** HC-C2YR-1BF  
**Propeller T.C.:** P-920

**Blade Model(s):** F8475T+2  
**Prop Diameter:** 86" no cut off

**IDS No.:** 3252      **Rev.:** 1      **IC Date:** 07/07/2015

**Modifier:** Tapp's Aviation Pty Ltd.  
**Engine Model:** IO-540-K1G5  
**Power:** 300 HP @ 2700 RPM  
**Placard/Restr:** DO NOT EXCEED 24 INCHES MANIFOLD PRESSURE BETWEEN 2300 AND 2475 RPM

**Notes:** If a Hartzell 2-blade prop is replaced, use the original Piper spinner. If a Hartzell 3-blade prop is replaced, use Hartzell spinner 835-23.

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** N/A  
**Low Pitch Angle:** 12.0 +/-0.2  
**Stud Protrusion**

**Startlock Angle:** N/A  
**Feather/High Angle:** 29.0 +/-1.0  
**Cwt Angle:**

### Non-HPI Items:

**Non-HPI Spinner:** Piper Drawing 99374 (taken from aircraft TCDS)

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>        | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>                                  |
|------------------|--------------------|---------------------------|-----------------|----------------|--|
| PROPELLER        | C2R00054           | HC-C2YR-1BF/F8475T+2/SM14 | 1               | A/C            |  |
| BLADE            | F8475T+2           | PCP:BLADE UNIT, ALUMINUM  | 2               | Prop           |  |
| SPINNER          | 835-23             | SPINNER ASSEMBLY          | 1               | Prop           | Used only if 3-blade Hartzell is being replaced. |
| SPINNER          | 835-23P            | SPINNER ASSEMBLY          | 1               | Prop           | Used only if 3-blade Hartzell is being replaced. |
| SPIN MTG KIT     | A-2476-14          | SPINNER - MTG KIT         | 1               | Prop           |  |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20    | 6               | Prop           |  |
| OVERHAUL KIT     | HC-C2YR-1BF-OH     | O/H KIT                   | 1               | Prop           | For aftermarket use only                         |

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PIPER

IDS No.: 3438 Rev.: 5 IC Date: 02/23/2016

**Model:** PA-46-500TP  
**Trade Name:** MERIDIAN  
**Aircraft T.C./STC:** SA04045CH  
**Propeller Model:** 5D3-N338A1  
**Propeller T.C.:** P00015CH

**Modifier:** HARTZELL  
**Engine Model:** PT6A-42A  
**Power:** 500 HP @ 2000 RPM  
**Placard/Restr:** Ground idle engine speed must be at or above 1175 RPM.

**Blade Model(s):** 78D01B  
**Prop Diameter:** 82.5"

**Notes:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** -11.0 +-0.5  
**Low Pitch Angle:** 15.8 +-0.1  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 83.2 +-0.5  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:** WOODWARD

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>                | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|-----------------------------------|-----------------|----------------|-----------------|
| PROPELLER        | 5DN00001S          | 5D3-N338A1/78D01B/105951P         | 1               | A/C            |                 |
| PROPELLER        | 5DN00001SKD        | 5D3-N338A1/78D01B/105951P         | 1               | A/C            |                 |
| BLADE            | 78D01B             | PCP: BLADE ASSY, COMP             | 5               | Prop           |                 |
| SPINNER          | 105951             | SPINNER ASSEMBLY                  | 1               | A/C            |                 |
| SPINNER          | 105951P            | SPINNER ASSEMBLY                  | 1               | A/C            |                 |
| SPIN MTG KIT     | B-3384-2H          | BOLT, 1/4-28, HEX HEAD            | 10              | Prop           |                 |
| SPIN MTG KIT     | B-3851-0432        | WASHER                            | 10              | Prop           |                 |
| SP MT KIT DE-ICE | A-2070-6           | SCREW, 1/4-28, BUTTON HEAD        | 10              | Prop           |                 |
| COUNTERWEIGHT    | 106074             | PCP: COUNTERWEIGHT                | 1               | Blade          |                 |
| DE-ICER          | 106167             | DE-ICE BOOT                       | 1               | Blade          |                 |
| DE-ICE KIT PR    | 106285             | DE-ICE KIT (ONE PROP)             | 1               | Prop           |                 |
| DE-ICE KIT A/F   | 106337             | AIRFRAME DE-ICE KIT               | 1               | A/C            |                 |
| MTG BOLT/STUD    | B-3339-1           | BOLT, MOUNTING, 9/16-18, 12 POINT | 8               | Prop           |                 |
| MISC ACCES       | A-3044             | BLOCK, BETA FEEDBACK- ASSEMBLY    | 1               | Prop           |                 |

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PIPER

IDS No.: 3436 Rev.: 7 IC Date: 09/14/2022

Model: PA-46-500TP  
 Trade Name: M500  
 Aircraft T.C./STC: SA04045CH  
 Propeller Model: 5D3-N338A1  
 Propeller T.C.: P00015CH

Modifier: Hartzell Propeller Inc  
 Engine Model: PT6A-42A  
 Power: 500 HP @ 2000 RPM  
 Placard/Restr: Ground idle engine speed must be at or above 1175 RPM.

Blade Model(s): 78D01B\*2  
 Prop Diameter: 82.5

Notes:

**Prop Setup:**

Ref. Radius: 30  
 Reverse Angle: -11.0+-0.5  
 Low Pitch Angle: 15.8 +-0.1  
 Stud Protrusion

Startlock Angle: NA  
 Feather/High Angle: 83.2+-0.5  
 Cwt Angle:

**Non-HPI Items:**

Non-HPI Spinner:

Non-HPI Governor:

**Hartzell Approved Items:**

| Item Type        | Item Number | Description                    | Quantity | Qty Per | Comments                      |
|------------------|-------------|--------------------------------|----------|---------|-------------------------------|
| PROPELLER        | 5DN00500    | 5D3-N338A1/78D01B[*2]/BULK     | 1        | A/C     | W/ DOME MTG COMPONENTS IN BOM |
| PROPELLER        | 5DN00500KD  | 5D3-N338A1/78D01B[*2]/BULK     | 1        | A/C     | W/ DOME MTG COMPONENTS IN BOM |
| PROPELLER        | 5DN00500S   | 5D3-N338A1/78D01B[*2]/105951P  | 1        | A/C     |                               |
| PROPELLER        | 5DN00500SKD | 5D3-N338A1/78D01B[*2]/105951P  | 1        | A/C     |                               |
| BLADE            | 78D01B*2    | PCP: BLADE ASSY, COMP          | 5        | Prop    |                               |
| SPINNER          | 105951      | SPINNER ASSEMBLY               | 1        | Prop    |                               |
| SPINNER          | 105951P     | SPINNER ASSEMBLY               | 1        | Prop    |                               |
| SPIN MTG KIT     | B-3384-2H   | BOLT, 1/4-28, HEX HEAD         | 10       | Prop    |                               |
| SPIN MTG KIT     | B-3851-0432 | WASHER                         | 10       | Prop    |                               |
| SP MT KIT DE-ICE | A-2070-6    | SCREW, 1/4-28, BUTTON HEAD     | 10       | Prop    |                               |
| COUNTERWEIGHT    | 106074      | PCP: COUNTERWEIGHT             | 1        | Blade   |                               |
| DE-ICER          | 106167      | DE-ICE BOOT                    | 1        | Blade   |                               |
| DE-ICE KIT PR    | 106285      | DE-ICE KIT (ONE PROP)          | 1        | Prop    |                               |
| DE-ICE KIT A/F   | 106337      | AIRFRAME DE-ICE KIT            | 1        | A/C     |                               |
| MTG BOLT/STUD    | B-3339-1    | BOLT,MOUNTING,9/16-18,12 POINT | 8        | Prop    |                               |
| MISC ACCES       | A-3044      | BLOCK, BETA FEEDBACK- ASSEMBLY | 1        | Prop    |                               |
| MISC             | 105949      | DOME                           | 1        | Prop    | Unpolished Dome               |
| MISC             | 105949KIT   | NON-POLISHED DOME / MTG HDWR   | 1        | Prop    |                               |
| MISC             | 105949P     | DOME                           | 1        | Prop    | Polished Dome                 |
| MISC             | 105949PKIT  | POLISHED DOME / MTG HDWR       | 1        | Prop    | Use with 5DN00500S            |

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PIPER

IDS No.: 3450 Rev.: 7 IC Date: 03/08/2022

Model: PA-46-600TP  
 Trade Name: M600  
 Aircraft T.C./STC: A25SO  
 Propeller Model: 5D3-N338A1  
 Propeller T.C.: P00015CH

Modifier:  
 Engine Model: PT6A-42A  
 Power: 600 HP @ 2000 RPM  
 Placard/Restr: Ground idle engine speed must be at or above 1175 RPM.

Blade Model(s): 78D01B\*2  
 Prop Diameter: 82.5

Notes:

**Prop Setup:**

Ref. Radius: 30  
 Reverse Angle: -11.0+-0.5  
 Low Pitch Angle: 17.7 +-0.1  
 Stud Protrusion

Startlock Angle: NA  
 Feather/High Angle: 83.2+-0.5  
 Cwt Angle:

**Non-HPI Items:**

Non-HPI Spinner:

Non-HPI Governor:

**Hartzell Approved Items:**

| Item Type        | Item Number | Description                       | Quantity | Qty Per | Comments  |
|------------------|-------------|-----------------------------------|----------|---------|---|
| PROPELLER        | 5DN00600    | 5D3-N338A1/78D01B[*2]/BULK        | 1        | A/C     | Includes all 105951(P) Spinner components minus 105949(P) Dome                    |
| PROPELLER        | 5DN00600S   | 5D3-N338A1/78D01B[*2]/105951P     | 1        | A/C     |   |
| PROPELLER        | 5DN00650    | 5D3-N338A1/78D01B[*2]/BULK        | 1        | A/C     | Includes all 106917(P) Spinner components minus 105949(P) Dome                    |
| PROPELLER        | 5DN00650S   | 5D3-N338A1/78D01B[*2]/106917P     | 1        | A/C     |   |
| PROPELLER        | 5DN00650SKD | 5D3-N338A1/78D01B[*2]/106917P     | 1        | A/C     |   |
| BLADE            | 78D01B*2    | PCP: BLADE ASSY, COMP             | 5        | Prop    |   |
| SPINNER          | 105949      | DOME                              | 1        | Prop    | Buffed Dome for use with 5DN00600 & 5DN00650                                      |
| SPINNER          | 105949P     | DOME                              | 1        | Prop    | Polished Dome for use with 5DN00600 & 5DN00650                                    |
| SPINNER          | 105951      | SPINNER ASSEMBLY                  | 1        | Prop    | Use with 5DN00600S, 11.0 lbs  |
| SPINNER          | 105951P     | SPINNER ASSEMBLY                  | 1        | Prop    | Use with 5DN00600S, 11.0 lbs  |
| SPINNER          | 106917      | SPINNER ASSEMBLY                  | 1        | Prop    | Use with 5DN00650S / Stainless Steel Forward Bulkhead and Rear Bulkhead, 26.0 lbs |
| SPINNER          | 106917P     | SPINNER ASSEMBLY                  | 1        | Prop    | Use with 5DN00650S / Stainless Steel Forward Bulkhead and Rear Bulkhead, 26.0 lbs |
| SPIN MTG KIT     | B-3384-2H   | BOLT, 1/4-28, HEX HEAD            | 10       | Prop    |   |
| SPIN MTG KIT     | B-3851-0432 | WASHER                            | 10       | Prop    |   |
| SP MT KIT DE-ICE | A-2070-6    | SCREW, 1/4-28, BUTTON HEAD        | 10       | Prop    |   |
| COUNTERWEIGHT    | 106074      | PCP: COUNTERWEIGHT                | 1        | Blade   |   |
| DE-ICER          | 106167      | DE-ICE BOOT                       | 1        | Blade   |   |
| DE-ICE KIT PR    | 106285      | DE-ICE KIT (ONE PROP)             | 1        | Prop    |   |
| DE-ICE KIT A/F   | 106337      | AIRFRAME DE-ICE KIT               | 1        | A/C     |   |
| MTG BOLT/STUD    | B-3339-1    | BOLT, MOUNTING, 9/16-18, 12 POINT | 8        | Prop    |   |
| MISC ACCES       | A-3044      | BLOCK, BETA FEEDBACK- ASSEMBLY    | 1        | Prop    |   |

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PIPER

IDS No.: 3353 Rev.: 2 IC Date: 05/02/2018

**Model:** PA46-600TP  
**Trade Name:** M600  
**Aircraft T.C./STC:** A25SO  
**Propeller Model:** HC-E4N-3Q  
**Propeller T.C.:** P10NE  
  
**Blade Model(s):** E8501K-3.5\*1  
**Prop Diameter:** 82.5" TO 81.5"

**Modifier:**  
**Engine Model:** PT6A-42  
**Power:** 600 HP @ 2000 RPM  
**Placard/Restr:** Ground idle engine speed must be at or above 1175 RPM.

**Notes:**

**Prop Setup:**

**Ref. Radius:** 30"  
**Reverse Angle:** -10.5 +-0.5  
**Low Pitch Angle:** 19.0 +- 0.1  
**Stud Protrusion**

**Startlock Angle:** N/A  
**Feather/High Angle:** 84.5 +-0.5  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:** WOODWARD

**Hartzell Approved Items:**

| Item Type     | Item Number  | Description                          | Quantity | Qty Per | Comments                 |
|---------------|--------------|--------------------------------------|----------|---------|--------------------------|
| PROPELLER     | E4N08600     | HC-E4N-3Q/E8501K-3.5[*1]/BULK        | 1        | A/C     |                          |
| PROPELLER     | E4N08600KD   | HC-E4N-3Q/E8501K-3.5[*1]/BULK        | 1        | A/C     |                          |
| BLADE         | E8501K-3.5*1 | PCP:BLADE UNIT, ALUMINUM, [16,30,17] | 1        | Blade   |                          |
| SPINNER       | D-630-5      | SPINNER ASSEMBLY                     | 1        | Prop    |                          |
| SPINNER       | D-630-5P     | SPINNER ASSEMBLY                     | 1        | Prop    |                          |
| SPIN MTG KIT  | A-2070-7     | SCREW, 1/4-28, BUTTON HEAD           | 8        | Prop    |                          |
| COUNTERWEIGHT | C-472-1      | PCP:COUNTERWEIGHT                    | 1        | Blade   |                          |
| DE-ICER       | 105503       | DE-ICE BOOT                          | 1        | Blade   |                          |
| DE-ICE KIT PR | 105537       | DE-ICE KIT (ONE PROP)                | 1        | Prop    |                          |
| MTG BOLT/STUD | B-3339-1     | BOLT,MOUNTING,9/16-18,12 POINT       | 8        | Prop    |                          |
| MISC ACCES    | A-3044       | BLOCK, BETA FEEDBACK- ASSEMBLY       | 1        | Prop    |                          |
| OVERHAUL KIT  | HC-E4N-3Q-OH | O/H KIT                              | 1        | Prop    | For aftermarket use only |

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PIPER

**Model:** PA-14  
**Trade Name:** FAMILY CRUISER  
**Aircraft T.C./STC:** STC-SA196SW  
**Propeller Model:** HC-82VL-6F, HC-A2VL-6F  
**Propeller T.C.:** P24EA  
**Blade Model(s):** V7636D-4  
V7636N-4  
**Prop Diameter:** 72.2"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.0 +-0.2  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type | Item Number | Description      | Quantity | Qty Per | Comments               |
|-----------|-------------|------------------|----------|---------|------------------------|
| BLADE     | V7636D-4    | BLADE            | 2        | Prop    |                        |
| BLADE     | V7636N-4    | BLADE            | 2        | Prop    |                        |
| SPINNER   | 835-30      | SPINNER ASSEMBLY | 1        | Prop    |                        |
| SPINNER   | 835-6P      | IDS Item         | 1        | Prop    | Superseded, use 835-30 |

**IDS No.:** 2232      **Rev.:** -      **DM Date:** 06/22/2004

**Modifier:** JB SIMPSON  
**Engine Model:** O-235-C1  
**Power:** 115 HP @ 2800 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 26.5 +-1.5  
**Cwt Angle:**

**Non-HPI Governor:** WOODWARD

PIPER

**Model:** PA-14  
**Trade Name:** FAMILY CRUISER  
**Aircraft T.C./STC:** STC-SA196SW  
**Propeller Model:** HC-A2MVL-6F  
**Propeller T.C.:** P24EA  
**Blade Model(s):** MV7636N-4  
**Prop Diameter:** 72.2"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.0 +-0.2  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type | Item Number | Description              | Quantity | Qty Per | Comments               |
|-----------|-------------|--------------------------|----------|---------|------------------------|
| BLADE     | MV7636N-4   | PCP:BLADE UNIT, ALUMINUM | 2        | Prop    |                        |
| SPINNER   | 835-30      | SPINNER ASSEMBLY         | 1        | Prop    |                        |
| SPINNER   | 835-6P      | IDS Item                 | 1        | Prop    | Superseded, use 835-30 |

**IDS No.:** 738      **Rev.:** -      **DM Date:** 01/12/2004

**Modifier:** JB SIMPSON  
**Engine Model:** O-235-C1  
**Power:** 115 HP @ 2800 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 26.5 +-1.5  
**Cwt Angle:**

**Non-HPI Governor:** WOODWARD

# HARTZELL

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**PIPER**


**Model:** PA-12, PA-18  
**Trade Name:** SUPER CUB  
**Aircraft T.C./STC:** ST01919CH  
**Propeller Model:** HC-C2YL-1BF  
**Propeller T.C.:** P-920  
**Blade Model(s):** F8468A-4  
**Prop Diameter:** 80" - 74"

**IDS No.:** 2482      **Rev.:** 3      **IC Date:** 09/16/2016

**Modifier:** PROFESSIONAL PILOTS, INC  
**Engine Model:** O-320-B2B  
**Power:** 160 HP @ 2700 RPM  
**Placard/Restr:**

**Notes:** Engine is modified to use a constant speed prop in accordance with Lycoming Service Instruction 1435.

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** 10.5  0.1  
**Stud Protrusion**

**Startlock Angle:**  
**Feather/High Angle:** 29.0 +-1.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type     | Item Number    | Description                      | Quantity | Qty Per | Comments                 |
|---------------|----------------|----------------------------------|----------|---------|--------------------------|
| PROPELLER     | C2L00057       | HC-C2YL-1BF/F8468A-4/SM4         | 1        | A/C     |                          |
| BLADE         | F8468A-4       | PCP:BLADE UNIT, ALUM [1,1,1]     | 2        | Prop    |                          |
| SPINNER       | A-4203-P       | SPINNER ASSEMBLY                 | 1        | A/C     |                          |
| SPIN MTG KIT  | A-2476-4       | SPINNER - MTG KIT                | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2247-1       | STUD, MOUNTING, 7/16-20, DRILLED | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-C2YL-1BF-OH | O/H KIT                          | 1        | Prop    | For aftermarket use only |

**PIPER**


**Model:** PA-12, PA-18  
**Trade Name:** SUPER CUB  
**Aircraft T.C./STC:** ST01919CH  
**Propeller Model:** HC-C2YR-1BF  
**Propeller T.C.:** P-920  
**Blade Model(s):** F8477-4  
**Prop Diameter:** 80" TO 78"

**IDS No.:** 2038      **Rev.:** 3      **IC Date:** 09/16/2016

**Modifier:** PROFESSIONAL PILOTS  
**Engine Model:** O-360-A1A  
**Power:** 180 HP @ 2700 RPM  
**Placard/Restr:**

**Notes:** Must use C-1576 damper assembly

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 11.2  0.2  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 30.9 +-1.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type     | Item Number    | Description                  | Quantity | Qty Per | Comments                 |
|---------------|----------------|------------------------------|----------|---------|--------------------------|
| PROPELLER     | C2R00065       | HC-C2YR-1BF/F8477-4/SM16     | 1        | A/C     |                          |
| BLADE         | F8477-4        | PCP:BLADE UNIT, ALUM [1,1,1] | 2        | Prop    |                          |
| SPINNER       | C-3568-P       | SPINNER ASSEMBLY             | 1        | Prop    |                          |
| GOVERNOR      | V-3-22         | GOVERNOR ASSEMBLY, V-3-( )   | 1        | A/C     |                          |
| SPIN MTG KIT  | A-2476-16      | SPINNER - MTG KIT            | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2067         | STUD, MOUNTING, 1/2-20       | 6        | Prop    |                          |
| DAMPER        | C-1576         | DAMPER ASSEMBLY              | 1        | Prop    |                          |
| OVERHAUL KIT  | HC-C2YR-1BF-OH | O/H KIT                      | 1        | Prop    | For aftermarket use only |



# HARTZELL

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**PIPER**


IDS No.: 3485      Rev.: 3      IC Date: 03/01/2021

**Model:** PA-12, PA-18  
**Trade Name:** SUPER CUB  
**Aircraft T.C./STC:** ST01919CH  
**Propeller Model:** HC-C2YR-1N  
**Propeller T.C.:** P-920  
**Blade Model(s):** NG8301  
**Prop Diameter:** 83"

**Modifier:** PROFESSIONAL PILOTS  
**Engine Model:** O-360-A( )  
**Power:** 180 HP @ 2700 RPM  
**Placard/Restr:** None.  
**Notes:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 10.0  0.2  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 30.0  1.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type     | Item Number    | Description                | Quantity | Qty Per | Comments                                    |
|---------------|----------------|----------------------------|----------|---------|---|
| PROPELLER     | C2R40210       | HC-C2YR-1N/NG8301/SM4      | 1        | A/C     |   |
| PROPELLER     | C2R40220       | HC-C2YR-1N/NG8301/SM8      | 1        | A/C     |   |
| PROPELLER     | C2R40230       | HC-C2YR-1N/NG8301/SM63     | 1        | A/C     |   |
| BLADE         | NG8301         | PCP:BLADE ASSY, COMPOSITE  | 2        | Prop    |   |
| SPINNER       | 106574         | SPINNER ASSEMBLY           | 1        | Prop    | Fits with SMK A-2476-63.                    |
| SPINNER       | 106574F1       | SPINNER ASSEMBLY           | 1        | Prop    | Fits with SMK A-2476-63.                    |
| SPINNER       | 106574F2       | SPINNER ASSEMBLY           | 1        | Prop    | Fits with SMK A-2476-63.                    |
| SPINNER       | A-4203         | SPINNER ASSEMBLY           | 1        | Prop    | Fits with SMK A-2476-4.                     |
| SPINNER       | A-4203-P       | SPINNER ASSEMBLY           | 1        | Prop    | Fits with SMK A-2476-4.                     |
| SPINNER       | C-3568         | SPINNER ASSEMBLY           | 1        | Prop    | Fits with SMK A-2476-8.                     |
| SPINNER       | C-3568-P       | SPINNER ASSEMBLY           | 1        | Prop    | Fits with SMK A-2476-8.                     |
| SPINNER       | D-4798         | SPINNER ASSEMBLY           | 1        | Prop    | Fits with SMK A-2476-4.                     |
| SPINNER       | D-4798P        | SPINNER ASSEMBLY           | 1        | Prop    | Fits with SMK A-2476-4.                     |
| GOVERNOR      | V-3-22         | GOVERNOR ASSEMBLY, V-3-( ) | 1        | A/C     |   |
| SPIN MTG KIT  | A-2476-4       | SPINNER - MTG KIT          | 1        | Prop    | Fits with spinners D-4798(P) or A-4203(-P). |
| SPIN MTG KIT  | A-2476-63      | SPINNER - MTG KIT          | 1        | Prop    | Fits with spinner 106574( ).                |
| SPIN MTG KIT  | A-2476-8       | SPINNER - MTG KIT          | 1        | Prop    | Fits with spinner C-3568(-P).               |
| MTG BOLT/STUD | A-2067         | STUD, MOUNTING, 1/2-20     | 6        | Prop    |   |
| OVERHAUL KIT  | HC-C2YR-1BF-OH | O/H KIT                    | 1        | Prop    | For aftermarket use only                    |

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PIPER

**Model:** PA-18A-150  
**Trade Name:** SUPER CUB  
**Aircraft T.C./STC:** STC-SA4-254  
**Propeller Model:** HC-82VL-6F, HC-A2VL-6F  
**Propeller T.C.:** P24EA  
**Blade Model(s):** V7636D-4  
V7636N-4  
**Prop Diameter:** 72.2"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.0 +-0.2  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 2235 **Rev.:** - **DM Date:** 01/12/2004

**Modifier:** ELLEN BELLOTI  
**Engine Model:** O-320-A2A, -A2B  
**Power:** 150 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 26.5 +-1.5  
**Cwt Angle:**

**Non-HPI Governor:** WOODWARD

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u> | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>        |
|------------------|--------------------|--------------------|-----------------|----------------|------------------------|
| BLADE            | V7636D-4           | BLADE              | 2               | Prop           |                        |
| BLADE            | V7636N-4           | BLADE              | 2               | Prop           |                        |
| SPINNER          | 835-30             | SPINNER ASSEMBLY   | 1               | Prop           |                        |
| SPINNER          | 835-6P             | IDS Item           | 1               | Prop           | Superseded, use 835-30 |

PIPER

**Model:** PA-18A-150  
**Trade Name:** SUPER CUB  
**Aircraft T.C./STC:** STC-SA4-254  
**Propeller Model:** HC-A2MVL-6F  
**Propeller T.C.:** P24EA  
**Blade Model(s):** MV7636N-4  
**Prop Diameter:** 72.2"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.0 +-0.2  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 742 **Rev.:** - **DM Date:** 01/12/2004

**Modifier:** ELLEN BELLOTI  
**Engine Model:** O-320-A2A, -A2B  
**Power:** 150 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 26.5 +-1.5  
**Cwt Angle:**

**Non-HPI Governor:** WOODWARD

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>       | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>        |
|------------------|--------------------|--------------------------|-----------------|----------------|------------------------|
| BLADE            | MV7636N-4          | PCP:BLADE UNIT, ALUMINUM | 2               | Prop           |                        |
| SPINNER          | 835-30             | SPINNER ASSEMBLY         | 1               | Prop           |                        |
| SPINNER          | 835-6P             | IDS Item                 | 1               | Prop           | Superseded, use 835-30 |

# HARTZELL

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PIPER

**Model:** PA-18(A)(S)-150  
**Trade Name:** SUPER CUB  
**Aircraft T.C./STC:** STC-SA284AL  
**Propeller Model:** HC-C2YL-1B  
**Propeller T.C.:** P-920  
**Blade Model(s):** F7663-4  
**Prop Diameter:** 72"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:**  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>             | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|--------------------------------|-----------------|----------------|-----------------|
| BLADE            | F7663-4            | PCP:BLADE UNIT, ALUMINUM       | 2               | Prop           |                 |
| MTG BOLT/STUD    | A-2247-1           | STUD, MOUNTING,7/16-20,DRILLED | 6               | Prop           |                 |

**IDS No.:** 740      **Rev.:** -      **DM Date:** 10/01/1992

**Modifier:** BACHNERS A/C  
**Engine Model:** O-320  
**Power:** 150 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:**  
**Cwt Angle:**

**Non-HPI Governor:**

PIPER

**Model:** PA-18(A)(S)-150  
**Trade Name:** SUPER CUB  
**Aircraft T.C./STC:** STC-SA284AL  
**Propeller Model:** HC-A2XL-1 HC-A2XL-2, HC-A2XL-6  
**Propeller T.C.:** P24EA  
**Blade Model(s):** 7636-4  
7636D-4  
**Prop Diameter:** 72.2"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:**  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u> | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|--------------------|-----------------|----------------|-----------------|
| BLADE            | 7636-4             | BLADE              | 2               | Prop           |                 |
| BLADE            | 7636D-4            | BLADE              | 2               | Prop           |                 |

**IDS No.:** 2233      **Rev.:** -      **DM Date:** 11/20/2003

**Modifier:** BACHNERS A/C  
**Engine Model:** O-320-A2A, -A2A  
**Power:** 150 HP @ 2700 RPM  
**Placard/Restr:**

**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:**  
**Cwt Angle:** Positive

**Non-HPI Governor:** WOODWARD

# HARTZELL

## APPLICATION GUIDE 159

PIPER

**Model:** PA-18(A)(S)-150  
**Trade Name:** SUPER CUB  
**Aircraft T.C./STC:** STC-SA284AL  
**Propeller Model:** HC-A2VL-1, HC-A2VL-2, HC-A2VL-6  
  
**Propeller T.C.:** P24EA  
**Blade Model(s):** V7636D-4  
V7636N-4  
  
**Prop Diameter:** 72.2"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:**  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 2234      **Rev.:** -      **DM Date:** 11/20/2003

**Modifier:** BACHNERS A/C  
**Engine Model:** O-320-A2A, -A2A  
**Power:** 150 HP @ 2700 RPM  
**Placard/Restr:**

**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:**  
**Cwt Angle:** Positive

**Non-HPI Governor:** WOODWARD

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u> | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|--------------------|-----------------|----------------|-----------------|
| BLADE            | V7636D-4           | BLADE              | 2               | Prop           |                 |
| BLADE            | V7636N-4           | BLADE              | 2               | Prop           |                 |

PIPER

**Model:** PA-18(A)(S)-150  
**Trade Name:** SUPER CUB  
**Aircraft T.C./STC:** STC-SA284AL  
**Propeller Model:** HC-A2MVL-1,-6F  
  
**Propeller T.C.:** P24EA  
**Blade Model(s):** MV7636N-4  
  
**Prop Diameter:** 72.2"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:**  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 739      **Rev.:** -      **DM Date:** 05/16/1998

**Modifier:** BACHNERS A/C  
**Engine Model:** O-320-A2A, -A2A  
**Power:** 150 HP @ 2700 RPM  
**Placard/Restr:**

**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:**  
**Cwt Angle:** Positive

**Non-HPI Governor:** WOODWARD

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>       | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|--------------------------|-----------------|----------------|-----------------|
| BLADE            | MV7636N-4          | PCP:BLADE UNIT, ALUMINUM | 2               | Prop           |                 |

# HARTZELL

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PIPER

**Model:** PA-18(A)(S)-150  
**Trade Name:** SUPER CUB  
**Aircraft T.C./STC:** STC-SA4-1143  
**Propeller Model:** HC-A2MVL-6F  
**Propeller T.C.:** P24EA  
**Blade Model(s):** MV7636N-2  
**Prop Diameter:** 74.2"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 11.8 +/-0.2  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 741      **Rev.:** -      **DM Date:** 01/12/2004

**Modifier:** WESTERN COMMANDER

**Engine Model:** O-320-A3B

**Power:** 150 HP @ 2700 RPM

**Placard/Restr:**

**Notes:**

**Startlock Angle:** NA

**Feather/High Angle:** 26.5 +/-1.5

**Cwt Angle:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>       | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>        |
|------------------|--------------------|--------------------------|-----------------|----------------|------------------------|
| BLADE            | MV7636N-2          | PCP:BLADE UNIT, ALUMINUM | 2               | Prop           |                        |
| SPINNER          | 835-30             | SPINNER ASSEMBLY         | 1               | Prop           |                        |
| SPINNER          | 835-6P             | IDS Item                 | 1               | Prop           | Superseded, use 835-30 |

PIPER

**Model:** PA-22-150, PA-22S-150  
**Trade Name:** TRIPACER  
**Aircraft T.C./STC:** 1A6  
**Propeller Model:** HC-A2MVL-6F  
**Propeller T.C.:** P24EA  
**Blade Model(s):** MV7636N-4  
**Prop Diameter:** 72.2" TO 70"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.0 +/-0.2  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 743      **Rev.:** -      **DM Date:** 01/12/2004

**Modifier:**

**Engine Model:** O-320-A1A, -A1B

**Power:** 150 HP @ 2700 RPM

**Placard/Restr:**

**Notes:**

**Startlock Angle:** NA

**Feather/High Angle:** 26.0 +/-0.5

**Cwt Angle:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>       | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>      |
|------------------|--------------------|--------------------------|-----------------|----------------|----------------------|
| BLADE            | MV7636N-4          | PCP:BLADE UNIT, ALUMINUM | 2               | Prop           |                      |
| SPINNER          | 835-30             | SPINNER ASSEMBLY         | 1               | Prop           |                      |
| SPINNER          | 835-6              | IDS Item                 | 1               | Prop           | Superseded by 835-30 |

# HARTZELL

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PIPER

**Model:** PA-23  
**Trade Name:** APACHE  
**Aircraft T.C./STC:** 1A10  
**Propeller Model:** HC-82XL-2, HC-A2XL-2  
**Propeller T.C.:** P24EA  
**Blade Model(s):** 7636D  
**Prop Diameter:** 76.2" TO 74.5"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 10.0 +-0.1  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 2236      **Rev.:** -      **DM Date:** 11/20/2003

**Modifier:**  
**Engine Model:** O-320-A(1,3)(A,B)  
**Power:** 150 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 80.5 +-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:** WOODWARD

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u> | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|--------------------|-----------------|----------------|-----------------|
| BLADE            | 7636D              | BLADE              | 2               | Prop           |                 |
| SPINNER          | 835-30             | SPINNER ASSEMBLY   | 1               | Prop           |                 |

PIPER

**Model:** PA-23  
**Trade Name:** APACHE  
**Aircraft T.C./STC:** 1A10  
**Propeller Model:** HC-82XL-2, HC-A2XL-2  
**Propeller T.C.:** P24EA  
**Blade Model(s):** 7636-4  
7636D-4  
**Prop Diameter:** 72.2" TO 70"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.0 +-0.1  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 2237      **Rev.:** -      **DM Date:** 11/20/2003

**Modifier:**  
**Engine Model:** O-320-A(1,3)(A,B)  
**Power:** 150 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 80.0 +-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:** WOODWARD

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>    | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|-----------------------|-----------------|----------------|-----------------|
| BLADE            | 7636-4             | BLADE                 | 2               | Prop           |                 |
| BLADE            | 7636D-4            | BLADE                 | 2               | Prop           |                 |
| SPINNER          | 835-30             | SPINNER ASSEMBLY      | 1               | Prop           |                 |
| MTG BOLT/STUD    | B-6489-20          | BOLT,7/16-20,HEX HEAD | 2               | Prop           |                 |
| MTG BOLT/STUD    | B-6489-25          | BOLT,7/16-20,HEX HEAD | 4               | Prop           |                 |

# HARTZELL

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PIPER

**Model:** PA-23  
**Trade Name:** APACHE  
**Aircraft T.C./STC:** 1A10  
**Propeller Model:** HC-82VL-2, HC-A2VL-2  
**Propeller T.C.:** P24EA  
**Blade Model(s):** V7636D-4  
V7636N-4  
**Prop Diameter:** 72.2" TO 70"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.0 +-0.1  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 2238 **Rev.:** - **DM Date:** 11/20/2003

**Modifier:**  
**Engine Model:** O-320-A(1,3)(A,B)  
**Power:** 150 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 80.0 +-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:** WOODWARD

### Hartzell Approved Items:

| Item Type     | Item Number | Description           | Quantity | Qty Per | Comments |
|---------------|-------------|-----------------------|----------|---------|----------|
| BLADE         | V7636D-4    | BLADE                 | 2        | Prop    |          |
| BLADE         | V7636N-4    | BLADE                 | 2        | Prop    |          |
| SPINNER       | 835-30      | SPINNER ASSEMBLY      | 1        | Prop    |          |
| MTG BOLT/STUD | B-6489-20   | BOLT,7/16-20,HEX HEAD | 2        | Prop    |          |
| MTG BOLT/STUD | B-6489-25   | BOLT,7/16-20,HEX HEAD | 4        | Prop    |          |

PIPER

**Model:** PA-23  
**Trade Name:** APACHE  
**Aircraft T.C./STC:** 1A10  
**Propeller Model:** HC-A2VL-2  
**Propeller T.C.:** P24EA  
**Blade Model(s):** V7636  
V7636N  
**Prop Diameter:** 76.2" TO 74.5"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 10.0 +-0.1  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 2320 **Rev.:** - **DM Date:** 11/23/2003

**Modifier:**  
**Engine Model:** O-320-A(1,3)(A,B)  
**Power:** 150 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 80.5 +-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:** WOODWARD

### Hartzell Approved Items:

| Item Type | Item Number | Description      | Quantity | Qty Per | Comments |
|-----------|-------------|------------------|----------|---------|----------|
| BLADE     | V7636       | IDS ITEM         | 2        | Prop    |          |
| BLADE     | V7636N      | BLADE            | 2        | Prop    |          |
| SPINNER   | 835-30      | SPINNER ASSEMBLY | 1        | Prop    |          |

# HARTZELL

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PIPER

**Model:** PA-23  
**Trade Name:** APACHE  
**Aircraft T.C./STC:** 1A10  
**Propeller Model:** HC-A2MVL-2  
**Propeller T.C.:** P24EA  
**Blade Model(s):** MV7636N  
**Prop Diameter:** 76.2" TO 74.5"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 10.0 +-0.1  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 744      **Rev.:** -      **DM Date:** 05/16/1998

**Modifier:**  
**Engine Model:** O-320-A(1,3)(A,B)  
**Power:** 150 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 80.5 +-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:** WOODWARD

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>           | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|------------------------------|-----------------|----------------|-----------------|
| BLADE            | MV7636N            | PCP:BLADE UNIT, ALUM [1,1,1] | 2               | Prop           |                 |
| SPINNER          | 835-30             | SPINNER ASSEMBLY             | 1               | Prop           |                 |

PIPER

**Model:** PA-23  
**Trade Name:** APACHE  
**Aircraft T.C./STC:** 1A10  
**Propeller Model:** HC-A2MVL-2  
**Propeller T.C.:** P24EA  
**Blade Model(s):** MV7636N-4  
**Prop Diameter:** 72.2" TO 70"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.0 +-0.1  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 745      **Rev.:** 2      **IC Date:** 07/06/2015

**Modifier:**  
**Engine Model:** O-320-A(1,3)(A,B)  
**Power:** 150 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 80.0 +-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:** WOODWARD

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>       | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|--------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | A2L10020           | HC-A2MVL-2/MV7636N-4     | 2               | A/C            |                          |
| BLADE            | MV7636N-4          | PCP:BLADE UNIT, ALUMINUM | 2               | Prop           |                          |
| SPINNER          | 835-30             | SPINNER ASSEMBLY         | 1               | Prop           |                          |
| MTG BOLT/STUD    | B-6489-20          | BOLT,7/16-20,HEX HEAD    | 2               | Prop           |                          |
| MTG BOLT/STUD    | B-6489-25          | BOLT,7/16-20,HEX HEAD    | 4               | Prop           |                          |
| OVERHAUL KIT     | HC-A2MVL-2-OH      | O/H KIT                  | 1               | Prop           | For aftermarket use only |



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**PIPER**

**Model:** PA-23  
**Trade Name:** APACHE  
**Aircraft T.C./STC:** STC-SA00721CH  
**Propeller Model:** HC-C2YL-2CUF  
**Propeller T.C.:** P-920  
**Blade Model(s):** FC7663-4\*2  
 FC7663-4\*3  
**Prop Diameter:** 72" TO 71"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 11.8+- 0.2  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**IDS No.:** 1202      **Rev.:** 2      **IC Date:** 07/07/2015

**Modifier:** HARTZELL PROPELLER  
**Engine Model:** O-320  
**Power:** 160 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** 17.3 +-1.5  
**Feather/High Angle:** 78.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:** Woodward

**Hartzell Approved Items:**

| Item Type     | Item Number     | Description                    | Quantity | Qty Per | Comments                 |
|---------------|-----------------|--------------------------------|----------|---------|--------------------------|
| PROPELLER     | C2L00106        | HC-C2YL-2CUF/FC7663-4[*2]      | 2        | A/C     |                          |
| PROPELLER     | C2L00106STP     | C2L00106/836-29P/TWIN          | 2        | A/C     |                          |
| BLADE         | FC7663-4*2      | PCP:BLADE UNIT, B-3202H-5 CWT  | 2        | Prop    |                          |
| BLADE         | FC7663-4*3      | IDS ITEM,[3,1,1],B-3202H-5 CWT | 2        | Prop    |                          |
| SPINNER       | 836-29          | SPINNER ASSEMBLY               | 1        | Prop    |                          |
| SPINNER       | 836-29P         | SPINNER ASSEMBLY               | 1        | Prop    |                          |
| COUNTERWEIGHT | B-3202H-5       | PCP:COUNTERWEIGHT              | 1        | Blade   | Blade Component          |
| MTG BOLT/STUD | A-2247-1        | STUD, MOUNTING,7/16-20,DRILLED | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-C2YL-2CUF-OH | O/H KIT                        | 1        | Prop    | For aftermarket use only |

**PIPER**

**Model:** PA-23  
**Trade Name:** APACHE  
**Aircraft T.C./STC:** STC-SA1-6  
**Propeller Model:** HC-82XL-2, HC-A2XL-2  
**Propeller T.C.:** P24EA  
**Blade Model(s):** 7636-4  
 7636D-4  
**Prop Diameter:** 72.2" TO 70"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.0 +-0.1  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**IDS No.:** 2252      **Rev.:** -      **DM Date:** 11/20/2003

**Modifier:** HARTZELL PROPELLER  
**Engine Model:** O-320-A1A, -A1B, -A3A, -A3B  
**Power:** 150 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 80.0 +-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:** WOODWARD

**Hartzell Approved Items:**

| Item Type | Item Number | Description      | Quantity | Qty Per | Comments |
|-----------|-------------|------------------|----------|---------|----------|
| BLADE     | 7636-4      | BLADE            | 2        | Prop    |          |
| BLADE     | 7636D-4     | BLADE            | 2        | Prop    |          |
| SPINNER   | 835-30      | SPINNER ASSEMBLY | 1        | Prop    |          |

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PIPER

**Model:** PA-23  
**Trade Name:** APACHE  
**Aircraft T.C./STC:** STC-SA1-6  
**Propeller Model:** HC-82VL-2, HC-A2VL-2  
**Propeller T.C.:** P24EA  
**Blade Model(s):** V7636D-4  
V7636N-4  
**Prop Diameter:** 72.2" TO 70"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.0 +/-0.1  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 2253      **Rev.:** -      **DM Date:** 11/20/2003

**Modifier:** HARTZELL PROPELLER  
**Engine Model:** O-320-A1A, -A1B, -A3A, -A3B  
**Power:** 150 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 80.0 +/-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:** WOODWARD

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u> | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|--------------------|-----------------|----------------|-----------------|
| BLADE            | V7636D-4           | BLADE              | 2               | Prop           |                 |
| BLADE            | V7636N-4           | BLADE              | 2               | Prop           |                 |
| SPINNER          | 835-30             | SPINNER ASSEMBLY   | 1               | Prop           |                 |

PIPER

**Model:** PA-23  
**Trade Name:** APACHE  
**Aircraft T.C./STC:** STC-SA1-6  
**Propeller Model:** HC-A2MVL-2  
**Propeller T.C.:** P24EA  
**Blade Model(s):** MV7636N-4  
**Prop Diameter:** 72.2" TO 70"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.0 +/-0.1  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 755      **Rev.:** -      **DM Date:** 05/16/1998

**Modifier:** HARTZELL PROPELLER  
**Engine Model:** O-320-A1A, -A1B, -A3A, -A3B  
**Power:** 150 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 80.0 +/-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:** WOODWARD

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>       | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|--------------------------|-----------------|----------------|-----------------|
| BLADE            | MV7636N-4          | PCP:BLADE UNIT, ALUMINUM | 2               | Prop           |                 |
| SPINNER          | 835-30             | SPINNER ASSEMBLY         | 1               | Prop           |                 |

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PIPER

**Model:** PA-23 SERIES  
**Trade Name:** APACHE  
**Aircraft T.C./STC:** STC-SA2-1088  
**Propeller Model:** HC-82XL-2, HC-A2XL-2, HC-82XL-2B  
**Propeller T.C.:** P24EA  
**Blade Model(s):** 7636-4  
7636D-4  
**Prop Diameter:** 72.2" TO 70"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.0 +-0.1  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 2254      **Rev.:** -      **DM Date:** 11/20/2003

**Modifier:** TW SMITH INC  
**Engine Model:** O-320-B3B  
**Power:** 160 HP @ 2700 RPM  
**Placard/Restr:**

**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 80.0 +-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u> | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|--------------------|-----------------|----------------|-----------------|
| BLADE            | 7636-4             | BLADE              | 2               | Prop           |                 |
| BLADE            | 7636D-4            | BLADE              | 2               | Prop           |                 |
| SPINNER          | 835-30             | SPINNER ASSEMBLY   | 1               | Prop           |                 |

PIPER

**Model:** PA-23 SERIES  
**Trade Name:** APACHE  
**Aircraft T.C./STC:** STC-SA2-1088  
**Propeller Model:** HC-82VL-2, HC-A2VL-2, HC-82VL-2B  
**Propeller T.C.:** P24EA  
**Blade Model(s):** V7636D-4  
V7636N-4  
**Prop Diameter:** 72.2" TO 70"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.0 +-0.1  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 2255      **Rev.:** -      **DM Date:** 11/20/2003

**Modifier:** TW SMITH INC  
**Engine Model:** O-320-B3B  
**Power:** 160 HP @ 2700 RPM  
**Placard/Restr:**

**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 80.0 +-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u> | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|--------------------|-----------------|----------------|-----------------|
| BLADE            | V7636D-4           | BLADE              | 2               | Prop           |                 |
| BLADE            | V7636N-4           | BLADE              | 2               | Prop           |                 |
| SPINNER          | 835-30             | SPINNER ASSEMBLY   | 1               | Prop           |                 |

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**PIPER**

**Model:** PA-23 SERIES  
**Trade Name:** APACHE  
**Aircraft T.C./STC:** STC-SA2-1088  
**Propeller Model:** HC-A2MVL-2  
**Propeller T.C.:** P24EA  
**Blade Model(s):** MV7636N-4  
**Prop Diameter:** 72.2" TO 70"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.0 +/-0.1  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type | Item Number | Description              | Quantity | Qty Per | Comments |
|-----------|-------------|--------------------------|----------|---------|----------|
| BLADE     | MV7636N-4   | PCP:BLADE UNIT, ALUMINUM | 2        | Prop    |          |
| SPINNER   | 835-30      | SPINNER ASSEMBLY         | 1        | Prop    |          |

**IDS No.:** 756      **Rev.:** -      **DM Date:** 05/16/1998

**Modifier:** TW SMITH INC  
**Engine Model:** O-320-B3B  
**Power:** 160 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 80.0 +/-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:**

**PIPER**

**Model:** PA-23  
**Trade Name:** APACHE  
**Aircraft T.C./STC:** STC-SA4-783  
**Propeller Model:** HC-82XL-2, HC-A2XL-2, HC-82XL-2C  
**Propeller T.C.:** P24EA  
**Blade Model(s):** 7636D  
 8433-12  
**Prop Diameter:** 72.2", 76.2"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:**  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type | Item Number | Description      | Quantity | Qty Per | Comments |
|-----------|-------------|------------------|----------|---------|----------|
| BLADE     | 7636D       | BLADE            | 2        | Prop    |          |
| BLADE     | 8433-12     | BLADE            | 2        | Prop    |          |
| SPINNER   | 835-30      | SPINNER ASSEMBLY | 1        | Prop    |          |
| GOVERNOR  | B4-6        | IDS Item         | 1        | Prop    |          |

**IDS No.:** 2256      **Rev.:** -      **DM Date:** 11/20/2003

**Modifier:** MCKENZIE FLYING SERVICE  
**Engine Model:** O-340-A1A  
**Power:** 160 HP @ 2700 RPM  
**Placard/Restr:**

**Notes:**

**Startlock Angle:**  
**Feather/High Angle:**  
**Cwt Angle:** Positive

**Non-HPI Governor:** WOODWARD

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PIPER

**Model:** PA-23  
**Trade Name:** APACHE  
**Aircraft T.C./STC:** STC-SA4-783  
**Propeller Model:** HC-A2VL-2, HC-82VL-2C  
**Propeller T.C.:** P24EA  
**Blade Model(s):** V7636  
V7636N  
V8433N-12  
**Prop Diameter:** 72.2", 76.2"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:**  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**IDS No.:** 2322      **Rev.:** -      **DM Date:** 11/23/2003

**Modifier:** McKENZIE FLYING SERVICE  
**Engine Model:** O-340-A1A  
**Power:** 160 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:**  
**Feather/High Angle:**  
**Cwt Angle:** Positive

**Non-HPI Governor:** WOODWARD

**Hartzell Approved Items:**

| Item Type | Item Number | Description      | Quantity | Qty Per | Comments |
|-----------|-------------|------------------|----------|---------|----------|
| BLADE     | V7636       | IDS ITEM         | 2        | Prop    |          |
| BLADE     | V7636N      | BLADE            | 2        | Prop    |          |
| BLADE     | V8433N-12   | BLADE            | 2        | Prop    |          |
| SPINNER   | 835-30      | SPINNER ASSEMBLY | 1        | Prop    |          |
| GOVERNOR  | B4-6        | IDS Item         | 1        | Prop    |          |

PIPER

**Model:** PA-23  
**Trade Name:** APACHE  
**Aircraft T.C./STC:** STC-SA4-783  
**Propeller Model:** HC-A2MVL-2  
**Propeller T.C.:** P24EA  
**Blade Model(s):** MV7636N  
MV8433N-12  
**Prop Diameter:** 72.2", 76.2"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:**  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**IDS No.:** 757      **Rev.:** -      **DM Date:** 05/16/1998

**Modifier:** McKENZIE FLYING SERVICE  
**Engine Model:** O-340-A1A  
**Power:** 160 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:**  
**Feather/High Angle:**  
**Cwt Angle:** Positive

**Non-HPI Governor:** WOODWARD

**Hartzell Approved Items:**

| Item Type | Item Number | Description                  | Quantity | Qty Per | Comments |
|-----------|-------------|------------------------------|----------|---------|----------|
| BLADE     | MV7636N     | PCP:BLADE UNIT, ALUM [1,1,1] | 2        | Prop    |          |
| BLADE     | MV8433N-12  | PCP:BLADE UNIT, ALUMINUM     | 2        | Prop    |          |
| SPINNER   | 835-30      | SPINNER ASSEMBLY             | 1        | Prop    |          |
| GOVERNOR  | B4-6        | IDS Item                     | 2        | A/C     |          |

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**PIPER**

**Model:** PA-23  
**Trade Name:** APACHE  
**Aircraft T.C./STC:** STC-SA3-728/SA29CE  
**Propeller Model:** HC-92ZK-2B  
**Propeller T.C.:** P892  
**Blade Model(s):** 8447-12A  
 8447N-12A  
**Prop Diameter:** 71.6"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 14.25 +-0.25  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number | Description                   | Quantity | Qty Per | Comments |
|---------------|-------------|-------------------------------|----------|---------|----------|
| BLADE         | 8447-12A    | BLADE UNIT, ALUMINUM          | 2        | Prop    |          |
| BLADE         | 8447N-12A   | PCP:BLADE UNIT, ALUMINUM      | 2        | Prop    |          |
| SPINNER       | 835-30      | SPINNER ASSEMBLY              | 1        | Prop    |          |
| MTG BOLT/STUD | A-1328      | BOLT,MOUNTING,1/2-20,12 POINT | 4        | Prop    |          |
| MTG BOLT/STUD | A-1333      | BOLT,MOUNTING,1/2-20,HEX HEAD | 2        | Prop    |          |

**IDS No.:** 762      **Rev.:** 1      **D**      **Date:** 01/10/2011

**Modifier:** JACKSON M. REED  
**Engine Model:** O-360-A1D  
**Power:** 180 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 83.0 +-1.0  
**Cwt Angle:** Positive

**Non-HPI Governor:**

**PIPER**

**Model:** PA-23  
**Trade Name:** APACHE  
**Aircraft T.C./STC:** STC-SA3-728/SA29CE  
**Propeller Model:** HC-C2YK-2RBF  
**Propeller T.C.:** P-920  
  
**Blade Model(s):** F7666-4  
**Prop Diameter:** 72"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 14.25 +-0.25  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number | Description            | Quantity | Qty Per | Comments |
|---------------|-------------|------------------------|----------|---------|----------|
| BLADE         | F7666-4     | IDS Item               | 2        | Prop    |          |
| MTG BOLT/STUD | A-2067      | STUD, MOUNTING, 1/2-20 | 6        | Prop    |          |

**IDS No.:** 761      **Rev.:** -      **DM**      **Date:** 08/26/2006

**Modifier:** Jackson M. Reed  
**Engine Model:** O-360-A1D  
**Power:** 180 HP @ 2700 RPM  
**Placard/Restr:** Avoid continuous operation between 2000 and 2250 RPM  
**Notes:**

**Startlock Angle:** 19.75 +-1.50  
**Feather/High Angle:** 83.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

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**PIPER**

**Model:** PA-23  
**Trade Name:** APACHE  
**Aircraft T.C./STC:** STC-SA285CE  
**Propeller Model:** HC-C2YK-2RBF  
**Propeller T.C.:** P-920  
**Blade Model(s):** F7666A-2  
**Prop Diameter:** 74"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 14.0 +-0.2  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number | Description              | Quantity | Qty Per | Comments |
|---------------|-------------|--------------------------|----------|---------|----------|
| BLADE         | F7666A-2    | PCP:BLADE UNIT, ALUMINUM | 2        | Prop    |          |
| SPINNER       | 835-21      | SPINNER ASSEMBLY         | 1        | Prop    |          |
| GOVERNOR      | F6-3        | IDS Item                 | 2        | A/C     |          |
| MTG BOLT/STUD | A-2067      | STUD, MOUNTING, 1/2-20   | 6        | Prop    |          |

**IDS No.:** 760      **Rev.:** -      **DM Date:** 10/01/1992

**Modifier:** KWAD CO.  
**Engine Model:** IO-360-B1B  
**Power:** 200 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** 19.5 +-1.5  
**Feather/High Angle:** 80.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

**PIPER**

**Model:** PA-23  
**Trade Name:** APACHE  
**Aircraft T.C./STC:** STC-SA1306SW  
**Propeller Model:** HC-C2YK-2CF  
**Propeller T.C.:** P-920  
**Blade Model(s):** FC7666A-4\*1  
**Prop Diameter:** 72"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 15.0 +-0.1  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number | Description                   | Quantity | Qty Per | Comments        |
|---------------|-------------|-------------------------------|----------|---------|-----------------|
| BLADE         | FC7666A-4*1 | PCP:BLADE UNIT, B-3202H-4 CWT | 2        | Prop    |                 |
| SPINNER       | 836-29      | SPINNER ASSEMBLY              | 1        | Prop    |                 |
| COUNTERWEIGHT | B-3202H-4   | PCP:COUNTERWEIGHT             | 1        | Blade   | Blade Component |
| MTG BOLT/STUD | A-2067      | STUD, MOUNTING, 1/2-20        | 6        | Prop    |                 |

**IDS No.:** 758      **Rev.:** -      **DM Date:** 10/01/1992

**Modifier:** JW MILLER AVIATION  
**Engine Model:** IO-360-C1C  
**Power:** 200 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** 20.5 +-1.5  
**Feather/High Angle:** 80.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

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PIPER

**Model:** PA-23-160  
**Trade Name:** APACHE  
**Aircraft T.C./STC:** 1A10  
**Propeller Model:** HC-82XL-2, HC-A2XL-2  
**Propeller T.C.:** P24EA  
**Blade Model(s):** 7636D  
**Prop Diameter:** 76.2" TO 74.5"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 10.0 +-0.1  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 2239      **Rev.:** -      **DM Date:** 06/22/2004

**Modifier:**  
**Engine Model:** O-320-(B,C)(1,3)(A,B)  
**Power:** 160 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 80.5 +-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:** WOODWARD

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>         | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|----------------------------|-----------------|----------------|-----------------|
| BLADE            | 7636D              | BLADE                      | 2               | Prop           |                 |
| SPINNER          | 835-30             | SPINNER ASSEMBLY           | 2               | Prop           |                 |
| GOVERNOR         | B4-2               | GOVERNOR ASSEMBLY, B-4-( ) | 1               | Prop           |                 |

PIPER

**Model:** PA-23-160  
**Trade Name:** APACHE  
**Aircraft T.C./STC:** 1A10  
**Propeller Model:** HC-82XL-2, HC-A2XL-2  
**Propeller T.C.:** P24EA  
**Blade Model(s):** 7636-4  
7636D-4  
**Prop Diameter:** 72.2" TO 70"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.0 +-0.1  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 2240      **Rev.:** -      **DM Date:** 11/20/2003

**Modifier:**  
**Engine Model:** O-320-(B,C)(1,3)(A,B)  
**Power:** 160 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 80.0 +-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:** WOODWARD

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u> | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|--------------------|-----------------|----------------|-----------------|
| BLADE            | 7636-4             | BLADE              | 2               | Prop           |                 |
| BLADE            | 7636D-4            | BLADE              | 2               | Prop           |                 |
| SPINNER          | 835-30             | SPINNER ASSEMBLY   | 1               | Prop           |                 |
| GOVERNOR         | B4-3               | IDS Item           | 1               | Prop           |                 |



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PIPER

**Model:** PA-23-160  
**Trade Name:** APACHE  
**Aircraft T.C./STC:** 1A10  
**Propeller Model:** HC-82VL-2, HC-A2VL-2  
**Propeller T.C.:** P24EA  
**Blade Model(s):** V7636D-4  
V7636N-4  
**Prop Diameter:** 72.2" TO 70"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.0 +/-0.1  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 2241      **Rev.:** -      **DM Date:** 11/20/2003

**Modifier:**  
**Engine Model:** O-320-(B,C)(1,3)(A,B)  
**Power:** 160 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 80.0 +/-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:** WOODWARD

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u> | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|--------------------|-----------------|----------------|-----------------|
| BLADE            | V7636D-4           | BLADE              | 2               | Prop           |                 |
| BLADE            | V7636N-4           | BLADE              | 2               | Prop           |                 |
| SPINNER          | 835-30             | SPINNER ASSEMBLY   | 1               | Prop           |                 |
| GOVERNOR         | B4-3               | IDS Item           | 1               | Prop           |                 |

PIPER

**Model:** PA-23-160  
**Trade Name:** APACHE  
**Aircraft T.C./STC:** 1A10  
**Propeller Model:** HC-A2VL-2  
**Propeller T.C.:** P24EA  
**Blade Model(s):** V7636  
V7636N  
**Prop Diameter:** 76.2" TO 74.5"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 10.0 +/-0.1  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 2321      **Rev.:** -      **DM Date:** 11/23/2003

**Modifier:**  
**Engine Model:** O-320-(B,C)(1,3)(A,B)  
**Power:** 160 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 80.5 +/-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:** WOODWARD

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>         | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|----------------------------|-----------------|----------------|-----------------|
| BLADE            | V7636              | IDS ITEM                   | 2               | Prop           |                 |
| BLADE            | V7636N             | BLADE                      | 2               | Prop           |                 |
| SPINNER          | 835-30             | SPINNER ASSEMBLY           | 1               | Prop           |                 |
| GOVERNOR         | B4-2               | GOVERNOR ASSEMBLY, B-4-( ) | 1               | Prop           |                 |

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PIPER

**Model:** PA-23-160  
**Trade Name:** APACHE  
**Aircraft T.C./STC:** 1A10  
**Propeller Model:** HC-A2MVL-2  
**Propeller T.C.:** P24EA  
**Blade Model(s):** MV7636N  
**Prop Diameter:** 76.2" TO 74.5"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 10.0 +-0.1  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 746      **Rev.:** -      **DM Date:** 05/16/1998

**Modifier:**  
**Engine Model:** O-320-(B,C)(1,3)(A,B)  
**Power:** 160 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 80.5 +-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:** WOODWARD

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>           | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|------------------------------|-----------------|----------------|-----------------|
| BLADE            | MV7636N            | PCP:BLADE UNIT, ALUM [1,1,1] | 2               | Prop           |                 |
| SPINNER          | 835-30             | SPINNER ASSEMBLY             | 1               | Prop           |                 |
| GOVERNOR         | B4-2               | GOVERNOR ASSEMBLY, B-4( )    | 2               | A/C            |                 |

PIPER

**Model:** PA-23-160  
**Trade Name:** APACHE  
**Aircraft T.C./STC:** 1A10  
**Propeller Model:** HC-A2MVL-2  
**Propeller T.C.:** P24EA  
**Blade Model(s):** MV7636N-4  
**Prop Diameter:** 72.2" TO 70"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.0 +-0.1  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 747      **Rev.:** -      **DM Date:** 05/16/1998

**Modifier:**  
**Engine Model:** O-320-(B,C)(1,3)(A,B)  
**Power:** 160 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 80.0 +-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:** WOODWARD

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>       | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|--------------------------|-----------------|----------------|-----------------|
| BLADE            | MV7636N-4          | PCP:BLADE UNIT, ALUMINUM | 2               | Prop           |                 |
| SPINNER          | 835-30             | SPINNER ASSEMBLY         | 1               | Prop           |                 |
| GOVERNOR         | B4-3               | IDS Item                 | 2               | A/C            |                 |

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PIPER

**Model:** PA-23, PA-23-160  
**Trade Name:** APACHE  
**Aircraft T.C./STC:** SA899SW  
**Propeller Model:** HC-C2YK-2RB(F)  
**Propeller T.C.:** P-920

**Blade Model(s):** F7666A-2  
**Prop Diameter:** 74"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** 14.5 +/-0.2  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 2666      **Rev.:** -      **DM Date:** 12/11/2006

**Modifier:** APACHE MODIFICATION AIRCRAFT

**Engine Model:** O-360-A1D

**Power:** 180 HP @ 2700 RPM

**Placard/Restr:** Avoid continuous operation between 2000-2250 RPM.

**Notes:**

**Startlock Angle:** 20.0 +/- 1.5

**Feather/High Angle:** 80.0 +/-0.5

**Cwt Angle:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>       | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>           |
|------------------|--------------------|--------------------------|-----------------|----------------|---------------------------|
| PROPELLER        | C2K00521           | HC-C2YK-2RBF/F7666A-2    | 2               | A/C            |                           |
| BLADE            | F7666A-2           | PCP:BLADE UNIT, ALUMINUM | 2               | Prop           |                           |
| SPINNER          | 835-21             | SPINNER ASSEMBLY         | 1               | Prop           | Starter Ring Gear Mounted |
| SPINNER          | 835-21P            | SPINNER ASSEMBLY         | 1               | Prop           | Starter Ring Gear Mounted |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20   | 6               | Prop           |                           |

PIPER

**Model:** PA-23, PA-23-160  
**Trade Name:** APACHE  
**Aircraft T.C./STC:** STC-SA1-5  
**Propeller Model:** HC-A2XL-2, HC-82XL-2, HCA2SL-2C, HC-82XL-2C

**Propeller T.C.:** P24EA  
**Blade Model(s):** 7636-4  
7636D-4  
**Prop Diameter:** 72.2" TO 70"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.0 +/-0.1  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 2248      **Rev.:** -      **DM Date:** 11/20/2003

**Modifier:** HARTZELL PROPELLER

**Engine Model:** O-320-A(1,3)(A,B)-150hp

**Power:** 150 HP @ 2700 RPM

**Placard/Restr:**

**Notes:**

**Startlock Angle:** NA

**Feather/High Angle:** 80.0 +/-1.0

**Cwt Angle:** Positive

**Non-HPI Governor:** WOODWARD

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u> | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|--------------------|-----------------|----------------|-----------------|
| BLADE            | 7636-4             | BLADE              | 2               | Prop           |                 |
| BLADE            | 7636D-4            | BLADE              | 2               | Prop           |                 |
| SPINNER          | 835-30             | SPINNER ASSEMBLY   | 1               | Prop           |                 |
| GOVERNOR         | B4-4               | IDS Item           | 1               | Prop           |                 |

# HARTZELL

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PIPER

**Model:** PA-23, PA-23-160  
**Trade Name:** APACHE  
**Aircraft T.C./STC:** STC-SA1-5  
**Propeller Model:** HC-A2VL-2, HC-82VL-2, HC-A2VL-2C, HC-82VL-2C  
  
**Propeller T.C.:** P24EA  
**Blade Model(s):** V7636D-4  
V7636N-4  
  
**Prop Diameter:** 72.2" TO 70"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.0 +-0.1  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u> | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|--------------------|-----------------|----------------|-----------------|
| BLADE            | V7636D-4           | BLADE              | 2               | Prop           |                 |
| BLADE            | V7636N-4           | BLADE              | 2               | Prop           |                 |
| SPINNER          | 835-30             | SPINNER ASSEMBLY   | 1               | Prop           |                 |
| GOVERNOR         | B4-4               | IDS Item           | 1               | Prop           |                 |

**IDS No.:** 2249      **Rev.:** -      **DM Date:** 11/20/2003

**Modifier:** HARTZELL PROPELLER  
**Engine Model:** O-320-A(1,3)(A,B)-150hp  
**Power:** 150 HP @ 2700 RPM  
**Placard/Restr:**

**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 80.0 +-1.0  
**Cwt Angle:** Positive

**Non-HPI Governor:** WOODWARD

PIPER

**Model:** PA-23, PA-23-160  
**Trade Name:** APACHE  
**Aircraft T.C./STC:** STC-SA1-5  
**Propeller Model:** HC-A2MVL-2  
**Propeller T.C.:** P24EA  
**Blade Model(s):** MV7636N-4  
**Prop Diameter:** 72.2" TO 70"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.0 +-0.1  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>       | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|--------------------------|-----------------|----------------|-----------------|
| BLADE            | MV7636N-4          | PCP:BLADE UNIT, ALUMINUM | 2               | Prop           |                 |
| SPINNER          | 835-30             | SPINNER ASSEMBLY         | 1               | Prop           |                 |
| GOVERNOR         | B4-4               | IDS Item                 | 2               | A/C            |                 |

**IDS No.:** 753      **Rev.:** -      **DM Date:** 05/16/1998

**Modifier:** HARTZELL PROPELLER  
**Engine Model:** O-320-A(1,3)(A,B)-150hp  
**Power:** 150 HP @ 2700 RPM  
**Placard/Restr:**

**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 80.0 +-1.0  
**Cwt Angle:** Positive

**Non-HPI Governor:** WOODWARD

# HARTZELL

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**PIPER**

**Model:** PA-23, PA-23-160  
**Trade Name:** APACHE  
**Aircraft T.C./STC:** STC-SA1-5  
**Propeller Model:** HC-A2XL-2, HC-82XL-2  
**Propeller T.C.:** P24EA  
**Blade Model(s):** 7636-4  
 7636D-4  
**Prop Diameter:** 72.2" TO 70"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.0 +/-0.1  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u> | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|--------------------|-----------------|----------------|-----------------|
| BLADE            | 7636-4             | BLADE              | 2               | Prop           |                 |
| BLADE            | 7636D-4            | BLADE              | 2               | Prop           |                 |
| SPINNER          | 835-30             | SPINNER ASSEMBLY   | 1               | Prop           |                 |
| GOVERNOR         | B4-5               | IDS Item           | 1               | Prop           |                 |

**IDS No.:** 2250      **Rev.:** -      **DM Date:** 11/20/2003

**Modifier:** HARTZELL PROPELLER  
**Engine Model:** O-320-(B,C)(1,3)(A,B)  
**Power:** 160 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 80.0 +/-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:** WOODWARD

**PIPER**

**Model:** PA-23, PA-23-160  
**Trade Name:** APACHE  
**Aircraft T.C./STC:** STC-SA1-5  
**Propeller Model:** HC-A2VL-2, HC-82VL-2  
**Propeller T.C.:** P24EA  
**Blade Model(s):** V7636D-4  
 V7636N-4  
**Prop Diameter:** 72.2" TO 70"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.0 +/-0.1  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u> | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|--------------------|-----------------|----------------|-----------------|
| BLADE            | V7636D-4           | BLADE              | 2               | Prop           |                 |
| BLADE            | V7636N-4           | BLADE              | 2               | Prop           |                 |
| SPINNER          | 835-30             | SPINNER ASSEMBLY   | 1               | Prop           |                 |
| GOVERNOR         | B4-5               | IDS Item           | 1               | Prop           |                 |

**IDS No.:** 2251      **Rev.:** -      **DM Date:** 11/20/2003

**Modifier:** HARTZELL PROPELLER  
**Engine Model:** O-320-(B,C)(1,3)(A,B)  
**Power:** 160 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 80.0 +/-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:** WOODWARD

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PIPER

**Model:** PA-23, PA-23-160  
**Trade Name:** APACHE  
**Aircraft T.C./STC:** STC-SA1-5  
**Propeller Model:** HC-A2MVL-2  
**Propeller T.C.:** P24EA  
**Blade Model(s):** MV7636N-4  
**Prop Diameter:** 72.2" TO 70"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.0 +-0.1  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type | Item Number | Description              | Quantity | Qty Per | Comments |
|-----------|-------------|--------------------------|----------|---------|----------|
| BLADE     | MV7636N-4   | PCP:BLADE UNIT, ALUMINUM | 2        | Prop    |          |
| SPINNER   | 835-30      | SPINNER ASSEMBLY         | 1        | Prop    |          |
| GOVERNOR  | B4-5        | IDS Item                 | 2        | A/C     |          |

**IDS No.:** 754      **Rev.:** -      **DM Date:** 05/16/1998

**Modifier:** HARTZELL PROPELLER  
**Engine Model:** O-320-(B,C)(1,3)(A,B)  
**Power:** 160 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 80.0 +-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:** WOODWARD

PIPER

**Model:** PA-23-160  
**Trade Name:** APACHE  
**Aircraft T.C./STC:** STC-SA395WE  
**Propeller Model:** HC-C2YK-2RBF  
**Propeller T.C.:** P-920  
  
**Blade Model(s):** F7666A-2  
**Prop Diameter:** 74"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 14.0 +-0.1  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number | Description              | Quantity | Qty Per | Comments |
|---------------|-------------|--------------------------|----------|---------|----------|
| PROPELLER     | C2K00520    | HC-C2YK-2RBF/F7666A-2    | 2        | A/C     |          |
| BLADE         | F7666A-2    | PCP:BLADE UNIT, ALUMINUM | 2        | Prop    |          |
| SPINNER       | 836-29      | SPINNER ASSEMBLY         | 1        | Prop    |          |
| SPINNER       | 836-29P     | SPINNER ASSEMBLY         | 1        | Prop    |          |
| MTG BOLT/STUD | A-2067      | STUD, MOUNTING, 1/2-20   | 6        | Prop    |          |

**IDS No.:** 763      **Rev.:** -      **DM Date:** 08/26/2006

**Modifier:** MET-CO-AIR  
**Engine Model:** O-360-A1A  
**Power:** 180 HP @ 2700 RPM  
**Placard/Restr:** Avoid continuous operation between 2000 and 2250 RPM  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 79.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

# HARTZELL

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**PIPER**

**Model:** PA-23, PA-23-160  
**Trade Name:** APACHE  
**Aircraft T.C./STC:** STC-SA899SW  
**Propeller Model:** HC-C2YK-2CUF  
**Propeller T.C.:** P-920

**Blade Model(s):** FC7666A-2\*2  
 FC7666A-4Q\*1

**Prop Diameter:** 74" TO 72"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 14.0 +-0.1  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number     | Description                   | Quantity | Qty Per | Comments                 |
|---------------|-----------------|-------------------------------|----------|---------|--------------------------|
| PROPELLER     | C2K00471        | HC-C2YK-2CUF/FC7666A-2[*2]    | 2        | A/C     |                          |
| PROPELLER     | C2K00481        | HC-C2YK-2CUF/FC7666A-4Q[*1]   | 2        | A/C     |                          |
| BLADE         | FC7666A-2*2     | PCP:BLADE UNIT, B-3202H-4 CWT | 2        | Prop    |                          |
| BLADE         | FC7666A-4Q*1    | PCP:BLADE UNIT, B-3202H-4 CWT | 2        | Prop    |                          |
| SPINNER       | 836-29          | SPINNER ASSEMBLY              | 1        | Prop    |                          |
| SPINNER       | 836-29P         | SPINNER ASSEMBLY              | 1        | Prop    |                          |
| COUNTERWEIGHT | B-3202H-4       | PCP:COUNTERWEIGHT             | 1        | Blade   | Blade Component          |
| MTG BOLT/STUD | A-2067          | STUD, MOUNTING, 1/2-20        | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-C2YK-2CUF-OH | O/H KIT                       | 1        | Prop    | For aftermarket use only |

**IDS No.:** 1492      **Rev.:** 1      **IC Date:** 07/07/2015

**Modifier:** APACHE MODIFICATION AIRCRAFT

**Engine Model:** O-360-A1D

**Power:** 180 HP @ 2700 RPM

**Placard/Restr:** Avoid continuous operation between 2000 and 2250 RPM

**Notes:**

**Startlock Angle:** 18.0 - 21.0

**Feather/High Angle:** 79.0 +-1.0

**Cwt Angle:**

**Non-HPI Governor:**

**PIPER**

**Model:** PA-23-160  
**Trade Name:** APACHE  
**Aircraft T.C./STC:** STC-SA1306SW  
**Propeller Model:** HC-C2YK-2CF  
**Propeller T.C.:** P-920  
**Blade Model(s):** FC7666A-4\*1  
**Prop Diameter:** 72"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 15.0 +-0.1  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number | Description                   | Quantity | Qty Per | Comments        |
|---------------|-------------|-------------------------------|----------|---------|-----------------|
| BLADE         | FC7666A-4*1 | PCP:BLADE UNIT, B-3202H-4 CWT | 2        | Prop    |                 |
| SPINNER       | 836-29      | SPINNER ASSEMBLY              | 1        | Prop    |                 |
| COUNTERWEIGHT | B-3202H-4   | PCP:COUNTERWEIGHT             | 1        | Blade   | Blade Component |
| MTG BOLT/STUD | A-2067      | STUD, MOUNTING, 1/2-20        | 6        | Prop    |                 |

**IDS No.:** 759      **Rev.:** -      **DM Date:** 10/01/1992

**Modifier:** JW MILLER AV.

**Engine Model:** IO-360-C1C

**Power:** 200 HP @ 2700 RPM

**Placard/Restr:**

**Notes:**

**Startlock Angle:** 20.5 +-1.5

**Feather/High Angle:** 80.0 +-1.0

**Cwt Angle:**

**Non-HPI Governor:**

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**PIPER**

**Model:** PA-23-235  
**Trade Name:** APACHE  
**Aircraft T.C./STC:** 1A10  
**Propeller Model:** HC-82XK-2, HC-A2XK-2  
**Propeller T.C.:** P24EA  
**Blade Model(s):** 8433-10  
**Prop Diameter:** 74.2" TO 73"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 15.5 +/-0.2  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:** PIPER

**Hartzell Approved Items:**

| Item Type     | Item Number | Description                   | Quantity | Qty Per | Comments  |
|---------------|-------------|-------------------------------|----------|---------|-----------|
| BLADE         | 8433-10     | BLADE                         | 2        | Prop    |           |
| MTG BOLT/STUD | A-1328      | BOLT,MOUNTING,1/2-20,12 POINT | 4        | Prop    |           |
| MTG BOLT/STUD | A-1333      | BOLT,MOUNTING,1/2-20,HEX HEAD | 2        | Prop    | Primary   |
| MTG BOLT/STUD | A-1333-3    | BOLT,MOUNTING,1/2-20,HEX HEAD | 2        | Prop    | Secondary |

**IDS No.:** 2242      **Rev.:** -      **DM Date:** 11/20/2003

**Modifier:**  
**Engine Model:** O-540-B1A5  
**Power:** 235 HP @ 2575 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 80.0 +/-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:**

**PIPER**

**Model:** PA-23-235  
**Trade Name:** APACHE  
**Aircraft T.C./STC:** 1A10  
**Propeller Model:** HC-82VK-2, HC-A2VK-2  
**Propeller T.C.:** P24EA  
**Blade Model(s):** V8433-10  
V8433N-10  
**Prop Diameter:** 74.2" TO 73"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 15.5 +/-0.2  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:** PIPER

**Hartzell Approved Items:**

| Item Type     | Item Number | Description                   | Quantity | Qty Per | Comments  |
|---------------|-------------|-------------------------------|----------|---------|-----------|
| BLADE         | V8433-10    | BLADE                         | 2        | Prop    |           |
| BLADE         | V8433N-10   | BLADE                         | 2        | Prop    |           |
| MTG BOLT/STUD | A-1328      | BOLT,MOUNTING,1/2-20,12 POINT | 4        | Prop    |           |
| MTG BOLT/STUD | A-1333      | BOLT,MOUNTING,1/2-20,HEX HEAD | 2        | Prop    | Primary   |
| MTG BOLT/STUD | A-1333-3    | BOLT,MOUNTING,1/2-20,HEX HEAD | 2        | Prop    | Secondary |

**IDS No.:** 2243      **Rev.:** -      **DM Date:** 11/20/2003

**Modifier:**  
**Engine Model:** O-540-B1A5  
**Power:** 235 HP @ 2575 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 80.0 +/-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:**



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**PIPER**

**Model:** PA-23-235  
**Trade Name:** APACHE  
**Aircraft T.C./STC:** 1A10  
**Propeller Model:** HC-A2MVK-2  
**Propeller T.C.:** P24EA  
**Blade Model(s):** MV8433N-10  
**Prop Diameter:** 74.2" TO 73"

**IDS No.:** 748      **Rev.:** 2      **IC Date:** 07/06/2015

**Modifier:**  
**Engine Model:** O-540-B1A5  
**Power:** 235 HP @ 2575 RPM  
**Placard/Restr:**  
**Notes:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 15.5 +/-0.2  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 80.0 +/-0.5  
**Cwt Angle:** Positive

**Non-HPI Items:**

**Non-HPI Spinner:** PIPER

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type     | Item Number   | Description                   | Quantity | Qty Per | Comments                 |
|---------------|---------------|-------------------------------|----------|---------|--------------------------|
| PROPELLER     | A2K10041      | HC-A2MVK-2/MV8433N-10         | 2        | A/C     |                          |
| BLADE         | MV8433N-10    | PCP:BLADE UNIT, ALUMINUM      | 2        | Prop    |                          |
| MTG BOLT/STUD | A-1328        | BOLT,MOUNTING,1/2-20,12 POINT | 4        | Prop    |                          |
| MTG BOLT/STUD | A-1333        | BOLT,MOUNTING,1/2-20,HEX HEAD | 2        | Prop    | Primary                  |
| MTG BOLT/STUD | A-1333-3      | BOLT,MOUNTING,1/2-20,HEX HEAD | 2        | Prop    | Secondary                |
| OVERHAUL KIT  | HC-A2MVK-2-OH | O/H KIT                       | 1        | Prop    | For aftermarket use only |

**PIPER**

**Model:** PA-23-235, 250  
**Trade Name:** AZTEC  
**Aircraft T.C./STC:** STC-SA495CE  
**Propeller Model:** HC-83XK-2B, HC-A3XK-2B  
**Propeller T.C.:** P6EA  
**Blade Model(s):** 7636-4  
 7636D-4  
**Prop Diameter:** 72.2" TO 70"

**IDS No.:** 2263      **Rev.:** -      **DM Date:** 11/20/2003

**Modifier:** ROBERT WILLIAMS  
**Engine Model:** O-540-A1B5, -A1D5, -A3D5  
**Power:** 250 HP @ 2575 RPM  
**Placard/Restr:**  
**Notes:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 14.5 +/-0.1  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 81.0 +/-0.5  
**Cwt Angle:** Positive

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type                   | Item Number | Description                   | Quantity | Qty Per | Comments |
|-----------------------------|-------------|-------------------------------|----------|---------|----------|
| BLADE                       | 7636-4      | BLADE                         | 3        | Prop    |          |
| BLADE                       | 7636D-4     | BLADE                         | 3        | Prop    |          |
| SPINNER                     | C-2513-2    | SPINNER ASSEMBLY              | 1        | Prop    |          |
| COUNTERWEIGHT SLUG A-29     |             | SLUG, COUNTERWEIGHT           | 3        | Blade   |          |
| COUNTERWEIGHT SLUG B-3840-8 |             | SCREW, 10-32, FILLISTER HEAD  | 2        | Blade   |          |
| MTG BOLT/STUD               | A-1328      | BOLT,MOUNTING,1/2-20,12 POINT | 3        | Prop    |          |
| MTG BOLT/STUD               | A-1333-3    | BOLT,MOUNTING,1/2-20,HEX HEAD | 3        | Prop    |          |

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PIPER

**Model:** PA-23-235, 250  
**Trade Name:** AZTEC  
**Aircraft T.C./STC:** STC-SA495CE  
**Propeller Model:** HC-83VK-2B, HC-A3VK-2B  
**Propeller T.C.:** P6EA  
**Blade Model(s):** V7636D-4  
V7636N-4  
**Prop Diameter:** 72.2" TO 70"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 14.5 +-0.1  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 2264      **Rev.:** -      **DM Date:** 11/20/2003

**Modifier:** ROBERT WILLIAMS  
**Engine Model:** O-540-A1B5, -A1D5, -A3D5  
**Power:** 250 HP @ 2575 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 81.0 +-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u>            | <u>Item Number</u> | <u>Description</u>            | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|-----------------------------|--------------------|-------------------------------|-----------------|----------------|-----------------|
| BLADE                       | V7636D-4           | BLADE                         | 3               | Prop           |                 |
| BLADE                       | V7636N-4           | BLADE                         | 3               | Prop           |                 |
| SPINNER                     | C-2513-2           | SPINNER ASSEMBLY              | 1               | Prop           |                 |
| COUNTERWEIGHT SLUG A-29     |                    | SLUG, COUNTERWEIGHT           | 3               | Blade          |                 |
| COUNTERWEIGHT SLUG B-3840-8 |                    | SCREW, 10-32, FILLISTER HEAD  | 2               | Blade          |                 |
| MTG BOLT/STUD               | A-1328             | BOLT,MOUNTING,1/2-20,12 POINT | 3               | Prop           |                 |
| MTG BOLT/STUD               | A-1333-3           | BOLT,MOUNTING,1/2-20,HEX HEAD | 3               | Prop           |                 |

PIPER

**Model:** PA-23-235, 250  
**Trade Name:** AZTEC  
**Aircraft T.C./STC:** STC-SA495CE  
**Propeller Model:** HC-A3MVK-2B  
**Propeller T.C.:** P6EA  
**Blade Model(s):** MV7636N-4  
**Prop Diameter:** 72.2" TO 70"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 14.5 +-0.1  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 771      **Rev.:** 1      **D Date:** 01/10/2011

**Modifier:** ROBERT WILLIAMS  
**Engine Model:** O-540-A1B5, -A1D5, -A3D5  
**Power:** 250 HP @ 2575 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 81.0 +-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u>            | <u>Item Number</u> | <u>Description</u>            | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|-----------------------------|--------------------|-------------------------------|-----------------|----------------|-----------------|
| BLADE                       | MV7636N-4          | PCP:BLADE UNIT, ALUMINUM      | 3               | Prop           |                 |
| SPINNER                     | C-2513-2           | SPINNER ASSEMBLY              | 1               | Prop           |                 |
| COUNTERWEIGHT SLUG A-29     |                    | SLUG, COUNTERWEIGHT           | 3               | Blade          |                 |
| COUNTERWEIGHT SLUG B-3840-8 |                    | SCREW, 10-32, FILLISTER HEAD  | 2               | Blade          |                 |
| MTG BOLT/STUD               | A-1328             | BOLT,MOUNTING,1/2-20,12 POINT | 3               | Prop           |                 |
| MTG BOLT/STUD               | A-1333-3           | BOLT,MOUNTING,1/2-20,HEX HEAD | 3               | Prop           |                 |

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PIPER

**Model:** PA-23-235, 250  
**Trade Name:** AZTEC  
**Aircraft T.C./STC:** STC-SA495CE  
**Propeller Model:** HC-83XK-2B, HC-A3XK-2B  
**Propeller T.C.:** P6EA  
**Blade Model(s):** 7636-4  
7636D-4  
**Prop Diameter:** 72.2" TO 70"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 14.5 +-0.1  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 2261 **Rev.:** - **DM Date:** 11/20/2003

**Modifier:** ROBERT WILLIAMS  
**Engine Model:** O-540-B1A5  
**Power:** 235 HP @ 2575 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 81.0 +-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u>            | <u>Item Number</u> | <u>Description</u>               | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|-----------------------------|--------------------|----------------------------------|-----------------|----------------|-----------------|
| BLADE                       | 7636-4             | BLADE                            | 3               | Prop           |                 |
| BLADE                       | 7636D-4            | BLADE                            | 3               | Prop           |                 |
| SPINNER                     | C-2513-2           | SPINNER ASSEMBLY                 | 1               | Prop           |                 |
| COUNTERWEIGHT SLUG A-29     |                    | SLUG, COUNTERWEIGHT              | 3               | Blade          |                 |
| COUNTERWEIGHT SLUG B-3840-8 |                    | SCREW, 10-32, FILLISTER HEAD     | 2               | Blade          |                 |
| MTG BOLT/STUD               | A-1328             | BOLT, MOUNTING, 1/2-20, 12 POINT | 3               | Prop           |                 |
| MTG BOLT/STUD               | A-1333-3           | BOLT, MOUNTING, 1/2-20, HEX HEAD | 3               | Prop           |                 |

PIPER

**Model:** PA-23-235, 250  
**Trade Name:** AZTEC  
**Aircraft T.C./STC:** STC-SA495CE  
**Propeller Model:** HC-83VK-2B, HC-A3VK-2B  
**Propeller T.C.:** P6EA  
**Blade Model(s):** V7636D-4  
V7636N-4  
**Prop Diameter:** 72.2" TO 70"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 14.5 +-0.1  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 2262 **Rev.:** - **DM Date:** 11/20/2003

**Modifier:** ROBERT WILLIAMS  
**Engine Model:** O-540-B1A5  
**Power:** 235 HP @ 2575 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 81.0 +-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u>            | <u>Item Number</u> | <u>Description</u>               | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|-----------------------------|--------------------|----------------------------------|-----------------|----------------|-----------------|
| BLADE                       | V7636D-4           | BLADE                            | 3               | Prop           |                 |
| BLADE                       | V7636N-4           | BLADE                            | 3               | Prop           |                 |
| SPINNER                     | C-2513-2           | SPINNER ASSEMBLY                 | 1               | Prop           |                 |
| COUNTERWEIGHT SLUG A-29     |                    | SLUG, COUNTERWEIGHT              | 3               | Blade          |                 |
| COUNTERWEIGHT SLUG B-3840-8 |                    | SCREW, 10-32, FILLISTER HEAD     | 2               | Blade          |                 |
| MTG BOLT/STUD               | A-1328             | BOLT, MOUNTING, 1/2-20, 12 POINT | 3               | Prop           |                 |
| MTG BOLT/STUD               | A-1333-3           | BOLT, MOUNTING, 1/2-20, HEX HEAD | 3               | Prop           |                 |

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PIPER

**Model:** PA-23-235, 250  
**Trade Name:** AZTEC  
**Aircraft T.C./STC:** STC-SA495CE  
**Propeller Model:** HC-A3MVK-2B  
**Propeller T.C.:** P6EA  
**Blade Model(s):** MV7636N-4  
**Prop Diameter:** 72.2" TO 70"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 14.5 +/-0.1

**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 770      **Rev.:** 1      **D**      **Date:** 01/10/2011

**Modifier:** ROBERT WILLIAMS  
**Engine Model:** O-540-B1A5  
**Power:** 235 HP @ 2575 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 81.0 +/-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u>            | <u>Item Number</u> | <u>Description</u>            | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|-----------------------------|--------------------|-------------------------------|-----------------|----------------|-----------------|
| BLADE                       | MV7636N-4          | PCP:BLADE UNIT, ALUMINUM      | 3               | Prop           |                 |
| SPINNER                     | C-2513-2           | SPINNER ASSEMBLY              | 1               | Prop           |                 |
| COUNTERWEIGHT SLUG A-29     |                    | SLUG, COUNTERWEIGHT           | 3               | Blade          |                 |
| COUNTERWEIGHT SLUG B-3840-8 |                    | SCREW, 10-32, FILLISTER HEAD  | 2               | Blade          |                 |
| MTG BOLT/STUD               | A-1328             | BOLT,MOUNTING,1/2-20,12 POINT | 3               | Prop           |                 |
| MTG BOLT/STUD               | A-1333-3           | BOLT,MOUNTING,1/2-20,HEX HEAD | 3               | Prop           |                 |

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### PIPER

IDS No.: 751      Rev.: 3      IC      Date: 06/28/2019

**Model:** PA-23-250, PA-E23-250  
**Trade Name:** AZTEC  
**Aircraft T.C./STC:** 1A10  
**Propeller Model:** HC-E2YR-2RBSF  
**Propeller T.C.:** P9EA  
**Blade Model(s):** F8465-7R  
 F8465B-7R  
**Prop Diameter:** 77.0" TO 76.0"

**Modifier:**  
**Engine Model:** IO-540-C4B5  
**Power:** 250 HP @ 2575 RPM  
**Placard/Restr:**

**Notes:** "K" Flange also approved. Deice installed per BFG STC SA195EA.

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 14.5 +-0.2  
**Stud Protrusion**

**Startlock Angle:** 20.0 +-1.5  
**Feather/High Angle:** 80.0 +-1.0  
**Cwt Angle:** NA

#### Non-HPI Items:

**Non-HPI Spinner:** PIPER

**Non-HPI Governor:**

#### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>            | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>                   |
|------------------|--------------------|-------------------------------|-----------------|----------------|-----------------------------------|
| PROPELLER        | E2R00170           | HC-E2YR-2RBSF/F8465-7R/SM4    | 2               | A/C            |                                   |
| PROPELLER        | E2R00180           | HC-E2YR-2RBSF/F8465B-7R/SM4   | 2               | A/C            |                                   |
| BLADE            | F8465-7R           | PCP:BLADE UNIT, ALUMINUM      | 2               | Prop           |                                   |
| BLADE            | F8465B-7R          | PCP:BLADE UNIT, ALUM 4H1188-3 | 2               | Prop           |                                   |
| GOVERNOR         | F6-28              | GOVERNOR ASSEMBLY, F-6-( )    | 2               | A/C            | For wide deck engines             |
| GOVERNOR         | F6-5A              | GOVERNOR ASSEMBLY, F-6-( )    | 2               | A/C            |                                   |
| GOVERNOR         | F8-28              | GOVERNOR ASSEMBLY, F-8-( )    | 2               | A/C            | For wide deck engines             |
| GOVERNOR         | F8-5A              | IDS Item                      | 2               | A/C            |                                   |
| SPIN MTG KIT     | A-2476-4           | SPINNER - MTG KIT             | 1               | Prop           |                                   |
| DE-ICER          | 2H1291             | STRAP, RESTRAINER, DE-ICE     | 1               | Blade          | Blade component (on booted blade) |
| DE-ICER          | 4H1188-3           | DE-ICE BOOT                   | 1               | Blade          | Supersedes 7931-4E1188-3          |
| DE-ICE KIT PR    | 7931-77-870-1      | DE-ICE KIT (ONE PROP)         | 1               | Prop           |                                   |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20        | 6               | Prop           |                                   |
| OVERHAUL KIT     | HC-E2YR-2RBSF      | O/H KIT                       | 1               | Prop           | For aftermarket use only          |

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PIPER

IDS No.: 752      Rev.: 2      IC      Date: 06/28/2019

**Model:** PA-23-250, PA-E23-250

**Trade Name:** AZTEC

**Aircraft T.C./STC:** 1A10

**Propeller Model:** HC-E2YR-2RBSF

**Propeller T.C.:** P9EA

**Blade Model(s):** F8465-7R

F8465B-7R

F8465B-7R\*1

**Prop Diameter:** 77" TO 76"

**Prop Setup:**

**Ref. Radius:** 30

**Reverse Angle:** NA

**Low Pitch Angle:** 15.2 +-0.1

**Stud Protrusion**

**Modifier:**

**Engine Model:** TIO-540-C1A

**Power:** 250 HP @ 2575 RPM

**Placard/Restr:**

**Notes:**

**Startlock Angle:** 20.7 +-1.5

**Feather/High Angle:** 80.0 +-0.5

**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:** PIPER

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>            | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>                   |
|------------------|--------------------|-------------------------------|-----------------|----------------|-----------------------------------|
| PROPELLER        | E2R00179           | HC-E2YR-2RBSF/F8465B-7R       | 0               |                |                                   |
| PROPELLER        | E2R00181           | HC-E2YR-2RBSF/F8465B-7R[*1]   | 2               | A/C            |                                   |
| BLADE            | F8465-7R           | PCP:BLADE UNIT, ALUMINUM      | 2               | Prop           |                                   |
| BLADE            | F8465B-7R          | PCP:BLADE UNIT, ALUM 4H1188-3 | 2               | Prop           |                                   |
| BLADE            | F8465B-7R*1        | PCP:BLADE UNIT,ALUM 4H1214-2  | 2               | Prop           |                                   |
| GOVERNOR         | F6-5A              | GOVERNOR ASSEMBLY, F-6- ( )   | 2               | A/C            | Narrow Deck Only                  |
| DE-ICER          | 2H1291             | STRAP, RESTRAINER, DE-ICE     | 1               | Blade          | Blade component (on booted blade) |
| DE-ICER          | 4H1188-3           | DE-ICE BOOT                   | 1               | Blade          | Supercedes 7931-4E1188-3          |
| DE-ICER          | 4H1214-2           | DE-ICE BOOT                   | 1               | Blade          |                                   |
| DE-ICE KIT PR    | 7931-77-170        | IDS ITEM                      | 0               | Prop           | 1/2 per Prop (1 per AC)           |
| DE-ICE KIT PR    | 7931-77-870        | IDS ITEM - DE-ICE KIT         | 1               | Prop           |                                   |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20        | 6               | Prop           |                                   |
| OVERHAUL KIT     | HC-E2YR-2RBSF      | O/H KIT                       | 1               | Prop           | For aftermarket use only          |

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**PIPER**

**Model:** PA-23-250; SN<27-2000  
**Trade Name:** AZTEC  
**Aircraft T.C./STC:** 1A10  
**Propeller Model:** HC-82XK-2, HC-A2XK-2  
**Propeller T.C.:** P24EA  
**Blade Model(s):** 8433-10  
**Prop Diameter:** 74.2" TO 73"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 15.5 +-0.1  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:** PIPER

**Hartzell Approved Items:**

| Item Type     | Item Number   | Description               | Quantity | Qty Per | Comments        |
|---------------|---------------|---------------------------|----------|---------|-----------------|
| BLADE         | 8433-10       | BLADE                     | 2        | Prop    |                 |
| GOVERNOR      | B4            | GOVERNOR ASSEMBLY, B-4( ) | 1        | Prop    |                 |
| DE-ICER       | 7931-4E1188-1 | IDS Item                  | 1        | Blade   | Blade Component |
| DE-ICE KIT PR | 7931-77-310   | IDS ITEM - DE-ICE KIT     | 1        | Prop    |                 |

**IDS No.:** 2244      **Rev.:** -      **DM Date:** 11/20/2003

**Modifier:**  
**Engine Model:** IO-540-C(1,4)B5, O-540-A(1,3)(B,D)5  
**Power:** 250 HP @ 2575 RPM  
**Placard/Restr:**  
**Notes:** 24V only

**Startlock Angle:** NA  
**Feather/High Angle:** 80.0 +-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:**

**PIPER**

**Model:** PA-23-250; SN<27-2505  
**Trade Name:** AZTEC  
**Aircraft T.C./STC:** 1A10  
**Propeller Model:** HC-82XK-2C1, HC-A2XK-2  
**Propeller T.C.:** P24EA  
**Blade Model(s):** 8433-10  
**Prop Diameter:** 74.2" TO 73"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 15.5 +-0.1  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:** PIPER

**Hartzell Approved Items:**

| Item Type     | Item Number | Description                   | Quantity | Qty Per | Comments  |
|---------------|-------------|-------------------------------|----------|---------|-----------|
| BLADE         | 8433-10     | BLADE                         | 2        | Prop    |           |
| GOVERNOR      | B4          | GOVERNOR ASSEMBLY, B-4( )     | 1        | Prop    |           |
| MTG BOLT/STUD | A-1328      | BOLT,MOUNTING,1/2-20,12 POINT | 4        | Prop    |           |
| MTG BOLT/STUD | A-1333      | BOLT,MOUNTING,1/2-20,HEX HEAD | 2        | Prop    | Primary   |
| MTG BOLT/STUD | A-1333-3    | BOLT,MOUNTING,1/2-20,HEX HEAD | 2        | Prop    | Secondary |

**IDS No.:** 2246      **Rev.:** -      **DM Date:** 11/20/2003

**Modifier:**  
**Engine Model:** IO-540-C(1,4)B5, O-540-A(1,3)(B,D)5  
**Power:** 250 HP @ 2575 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 80.0 +-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:**

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**PIPER**

**Model:** PA-23-250; SN<27-2000  
**Trade Name:** AZTEC  
**Aircraft T.C./STC:** 1A10  
**Propeller Model:** HC-82VK-2, HC-A2VK-2  
**Propeller T.C.:** P24EA  
**Blade Model(s):** V8433-10  
V8433NB-10  
**Prop Diameter:** 74.2" TO 73"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 15.5 +/-0.1  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:** PIPER

**IDS No.:** 2245      **Rev.:** -      **DM Date:** 11/20/2003

**Modifier:**  
**Engine Model:** IO-540-C(1,4)B5, O-540-A(1,3)(B,D)5  
**Power:** 250 HP @ 2575 RPM  
**Placard/Restr:**  
**Notes:** 24V only

**Startlock Angle:** NA  
**Feather/High Angle:** 80.0 +/-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type     | Item Number   | Description               | Quantity | Qty Per | Comments        |
|---------------|---------------|---------------------------|----------|---------|-----------------|
| BLADE         | V8433-10      | BLADE                     | 2        | Prop    |                 |
| BLADE         | V8433NB-10    | BLADE, 4E1188-1 BOOT      | 2        | Prop    |                 |
| GOVERNOR      | B4            | GOVERNOR ASSEMBLY, B-4-() | 1        | Prop    |                 |
| DE-ICER       | 7931-4E1188-1 | IDS Item                  | 1        | Blade   | Blade Component |
| DE-ICE KIT PR | 7931-77-310   | IDS ITEM - DE-ICE KIT     | 1        | Prop    |                 |

**PIPER**

**Model:** PA-23-250; SN<27-2505  
**Trade Name:** AZTEC  
**Aircraft T.C./STC:** 1A10  
**Propeller Model:** HC-82VK-2C1, HC-A2VK-2  
**Propeller T.C.:** P24EA  
**Blade Model(s):** V8433-10  
**Prop Diameter:** 74.2" TO 73"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 15.5 +/-0.1  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:** PIPER

**IDS No.:** 2247      **Rev.:** -      **DM Date:** 11/20/2003

**Modifier:**  
**Engine Model:** IO-540-C(1,4)B5, O-540-A(1,3)(B,D)5  
**Power:** 250 HP @ 2575 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 80.0 +/-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type     | Item Number | Description                   | Quantity | Qty Per | Comments  |
|---------------|-------------|-------------------------------|----------|---------|-----------|
| BLADE         | V8433-10    | BLADE                         | 2        | Prop    |           |
| GOVERNOR      | B4          | GOVERNOR ASSEMBLY, B-4-()     | 1        | Prop    |           |
| MTG BOLT/STUD | A-1328      | BOLT,MOUNTING,1/2-20,12 POINT | 4        | Prop    |           |
| MTG BOLT/STUD | A-1333      | BOLT,MOUNTING,1/2-20,HEX HEAD | 2        | Prop    | Primary   |
| MTG BOLT/STUD | A-1333-3    | BOLT,MOUNTING,1/2-20,HEX HEAD | 2        | Prop    | Secondary |



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**PIPER**

**Model:** PA-23-250; SN<27-2000  
**Trade Name:** AZTEC  
**Aircraft T.C./STC:** 1A10  
**Propeller Model:** HC-A2MVK-2  
**Propeller T.C.:** P24EA  
**Blade Model(s):** MV8433NB-10  
**Prop Diameter:** 74.2" TO 73"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 15.5 +/-0.1  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:** PIPER

**IDS No.:** 749      **Rev.:** -      **DM Date:** 07/23/1998

**Modifier:**  
**Engine Model:** IO-540-C(1,4)B5, O-540-A(1,3)(B,D)5  
**Power:** 250 HP @ 2575 RPM  
**Placard/Restr:**  
**Notes:** 24V only

**Startlock Angle:** NA  
**Feather/High Angle:** 80.0 +/-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>         | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|----------------------------|-----------------|----------------|-----------------|
| BLADE            | MV8433NB-10        | BLADE UNIT, ALUMINUM       | 2               | Prop           |                 |
| GOVERNOR         | B4                 | GOVERNOR ASSEMBLY, B-4-( ) | 2               | A/C            |                 |
| DE-ICER          | 7931-4E1188-1      | IDS Item                   | 1               | Blade          | Blade Component |
| DE-ICE KIT PR    | 7931-77-310        | IDS ITEM - DE-ICE KIT      | 1               | Prop           |                 |

**PIPER**

**Model:** PA-23-250; SN<27-2505  
**Trade Name:** AZTEC  
**Aircraft T.C./STC:** 1A10  
**Propeller Model:** HC-A2MVK-2  
**Propeller T.C.:** P24EA  
**Blade Model(s):** MV8433N-10  
**Prop Diameter:** 74.2" TO 73"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 15.5 +/-0.1  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:** PIPER

**IDS No.:** 750      **Rev.:** 1      **D Date:** 01/10/2011

**Modifier:**  
**Engine Model:** IO-540-C(1,4)B5, O-540-A(1,3)(B,D)5  
**Power:** 250 HP @ 2575 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 80.0 +/-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>            | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|-------------------------------|-----------------|----------------|-----------------|
| PROPELLER        | A2K10040           | HC-A2MVK-2/MV8433N-10         | 2               | A/C            |                 |
| BLADE            | MV8433N-10         | PCP:BLADE UNIT, ALUMINUM      | 2               | Prop           |                 |
| GOVERNOR         | B4                 | GOVERNOR ASSEMBLY, B-4-( )    | 2               | A/C            |                 |
| MTG BOLT/STUD    | A-1328             | BOLT,MOUNTING,1/2-20,12 POINT | 4               | Prop           |                 |
| MTG BOLT/STUD    | A-1333             | BOLT,MOUNTING,1/2-20,HEX HEAD | 2               | Prop           | Primary         |
| MTG BOLT/STUD    | A-1333-3           | BOLT,MOUNTING,1/2-20,HEX HEAD | 2               | Prop           | Secondary       |

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PIPER

**Model:** PA-(E)23-250  
**Trade Name:** AZTEC  
**Aircraft T.C./STC:** STC-SA164CE  
**Propeller Model:** HC-83XK-2B, HC-A3XK-2B  
**Propeller T.C.:** P6EA  
**Blade Model(s):** 7636-4  
7636D-4  
**Prop Diameter:** 72.6"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 14.8 +-0.1  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 2257      **Rev.:** -      **DM Date:** 11/20/2003

**Modifier:** KWAD CO.  
**Engine Model:** O-540-A1B5, -A3D5, -A1D5  
**Power:** 250 HP @ 2575 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 81.5 +-1.0  
**Cwt Angle:** Positive

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u>            | <u>Item Number</u> | <u>Description</u>               | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|-----------------------------|--------------------|----------------------------------|-----------------|----------------|-----------------|
| BLADE                       | 7636-4             | BLADE                            | 3               | Prop           |                 |
| BLADE                       | 7636D-4            | BLADE                            | 3               | Prop           |                 |
| SPINNER                     | C-2513-2           | SPINNER ASSEMBLY                 | 1               | Prop           |                 |
| GOVERNOR                    | B4                 | GOVERNOR ASSEMBLY, B-4( )        | 1               | Prop           |                 |
| COUNTERWEIGHT SLUG A-29     |                    | SLUG, COUNTERWEIGHT              | 3               | Blade          |                 |
| COUNTERWEIGHT SLUG B-3840-8 |                    | SCREW, 10-32, FILLISTER HEAD     | 2               | Blade          |                 |
| MTG BOLT/STUD               | A-1328             | BOLT, MOUNTING, 1/2-20, 12 POINT | 3               | Prop           |                 |
| MTG BOLT/STUD               | A-1333-3           | BOLT, MOUNTING, 1/2-20, HEX HEAD | 3               | Prop           |                 |

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PIPER

**Model:** PA-(E)23-250  
**Trade Name:** AZTEC  
**Aircraft T.C./STC:** STC-SA164CE  
**Propeller Model:** HC-83VK-2B, HC-A3VK-2B  
**Propeller T.C.:** P6EA  
**Blade Model(s):** V7636D-4  
V7636N-4  
**Prop Diameter:** 72.6"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 14.8 +-0.1  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 2258      **Rev.:** -      **DM Date:** 11/20/2003

**Modifier:** KWAD CO.  
**Engine Model:** O-540-A1B5, -A3D5, -A1D5  
**Power:** 250 HP @ 2575 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 81.5 +-1.0  
**Cwt Angle:** Positive

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u>            | <u>Item Number</u> | <u>Description</u>               | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|-----------------------------|--------------------|----------------------------------|-----------------|----------------|-----------------|
| BLADE                       | V7636D-4           | BLADE                            | 3               | Prop           |                 |
| BLADE                       | V7636N-4           | BLADE                            | 3               | Prop           |                 |
| SPINNER                     | C-2513-2           | SPINNER ASSEMBLY                 | 1               | Prop           |                 |
| GOVERNOR                    | B4                 | GOVERNOR ASSEMBLY, B-4( )        | 1               | Prop           |                 |
| COUNTERWEIGHT SLUG A-29     |                    | SLUG, COUNTERWEIGHT              | 3               | Blade          |                 |
| COUNTERWEIGHT SLUG B-3840-8 |                    | SCREW, 10-32, FILLISTER HEAD     | 2               | Blade          |                 |
| MTG BOLT/STUD               | A-1328             | BOLT, MOUNTING, 1/2-20, 12 POINT | 3               | Prop           |                 |
| MTG BOLT/STUD               | A-1333-3           | BOLT, MOUNTING, 1/2-20, HEX HEAD | 3               | Prop           |                 |

PIPER

**Model:** PA-23-250  
**Trade Name:** AZTEC  
**Aircraft T.C./STC:** STC-SA164CE  
**Propeller Model:** HC-A3XK-2B  
**Propeller T.C.:** P913  
**Blade Model(s):** 7636-4  
7636D-4  
**Prop Diameter:** 72"

### Prop Setup:

**Ref. Radius:**  
**Reverse Angle:**  
**Low Pitch Angle:**  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 2395      **Rev.:** -      **DM Date:** 12/18/2003

**Modifier:** KWAD CO.  
**Engine Model:** O-540-A1B5, -A3D5, A1D5  
**Power:** 250 HP @ 2575 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:**  
**Feather/High Angle:**  
**Cwt Angle:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>        | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|---------------------------|-----------------|----------------|-----------------|
| BLADE            | 7636-4             | BLADE                     | 3               | Prop           |                 |
| BLADE            | 7636D-4            | BLADE                     | 3               | Prop           |                 |
| SPINNER          | C-2513-2           | SPINNER ASSEMBLY          | 1               | Prop           |                 |
| GOVERNOR         | B4                 | GOVERNOR ASSEMBLY, B-4( ) | 1               | Prop           |                 |

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PIPER

**Model:** PA-E23-250  
**Trade Name:** AZTEC  
**Aircraft T.C./STC:** STC-SA164CE  
**Propeller Model:** HC-A3XK-2B  
**Propeller T.C.:** P913  
**Blade Model(s):** 7636D-4  
**Prop Diameter:**

### Prop Setup:

**Ref. Radius:**  
**Reverse Angle:**  
**Low Pitch Angle:**  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>        | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|---------------------------|-----------------|----------------|-----------------|
| BLADE            | 7636D-4            | BLADE                     | 3               | Prop           |                 |
| SPINNER          | C-2513-2           | SPINNER ASSEMBLY          | 1               | Prop           |                 |
| GOVERNOR         | B4                 | GOVERNOR ASSEMBLY, B-4( ) | 1               | Prop           |                 |

**IDS No.:** 2399      **Rev.:** -      **DM Date:** 12/18/2003

**Modifier:** KWAD CO.  
**Engine Model:** O-540-A1B5, A3D5, A1D5  
**Power:** 250 HP @ 2575 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:**  
**Feather/High Angle:**  
**Cwt Angle:**

**Non-HPI Governor:**

PIPER

**Model:** PA-23-250  
**Trade Name:** AZTEC  
**Aircraft T.C./STC:** STC-SA164CE  
**Propeller Model:** HC-A3VK-2B  
**Propeller T.C.:** P6EA  
**Blade Model(s):** V7636D-4  
V7636N-4  
**Prop Diameter:** 72"

### Prop Setup:

**Ref. Radius:**  
**Reverse Angle:**  
**Low Pitch Angle:**  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>        | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|---------------------------|-----------------|----------------|-----------------|
| BLADE            | V7636D-4           | BLADE                     | 3               | Prop           |                 |
| BLADE            | V7636N-4           | BLADE                     | 3               | Prop           |                 |
| SPINNER          | C-2513-2           | SPINNER ASSEMBLY          | 1               | Prop           |                 |
| GOVERNOR         | B4                 | GOVERNOR ASSEMBLY, B-4( ) | 1               | Prop           |                 |

**IDS No.:** 2396      **Rev.:** -      **DM Date:** 12/18/2003

**Modifier:** KWAD CO.  
**Engine Model:** O-540-A1B5, -A3D5, -A1D5  
**Power:** 250 HP @ 2575 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:**  
**Feather/High Angle:**  
**Cwt Angle:**

**Non-HPI Governor:**

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**PIPER**

**Model:** PA-E23-250  
**Trade Name:** AZTEC  
**Aircraft T.C./STC:** STC-SA164CE  
**Propeller Model:** HC-A3VK-2B  
**Propeller T.C.:** P6EA  
**Blade Model(s):** V7636D-4  
**Prop Diameter:**

**Prop Setup:**

**Ref. Radius:**  
**Reverse Angle:**  
**Low Pitch Angle:**  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>        | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|---------------------------|-----------------|----------------|-----------------|
| BLADE            | V7636D-4           | BLADE                     | 3               | Prop           |                 |
| SPINNER          | C-2513-2           | SPINNER ASSEMBLY          | 1               | Prop           |                 |
| GOVERNOR         | B4                 | GOVERNOR ASSEMBLY, B-4-() | 1               | Prop           |                 |

**IDS No.:** 2400      **Rev.:** -      **DM Date:** 12/18/2003

**Modifier:** KWAD CO.  
**Engine Model:** O-540-A1B5, -A3D5, -A1D5  
**Power:** 250 HP @ 2575 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:**  
**Feather/High Angle:**  
**Cwt Angle:**

**Non-HPI Governor:**

**PIPER**

**Model:** PA-(E)23-250  
**Trade Name:** AZTEC  
**Aircraft T.C./STC:** STC-SA164CE  
**Propeller Model:** HC-A3MVK-2B  
**Propeller T.C.:** P6EA  
**Blade Model(s):** MV7636N-4  
**Prop Diameter:** 72.6"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 14.8 +-0.1  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| <u>Item Type</u>            | <u>Item Number</u> | <u>Description</u>               | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|-----------------------------|--------------------|----------------------------------|-----------------|----------------|-----------------|
| BLADE                       | MV7636N-4          | PCP:BLADE UNIT, ALUMINUM         | 3               | Prop           |                 |
| SPINNER                     | C-2513-2           | SPINNER ASSEMBLY                 | 1               | Prop           |                 |
| GOVERNOR                    | B4                 | GOVERNOR ASSEMBLY, B-4-()        | 2               | A/C            |                 |
| COUNTERWEIGHT SLUG A-29     |                    | SLUG, COUNTERWEIGHT              | 3               | Blade          |                 |
| COUNTERWEIGHT SLUG B-3840-8 |                    | SCREW, 10-32, FILLISTER HEAD     | 2               | Blade          |                 |
| MTG BOLT/STUD               | A-1328             | BOLT, MOUNTING, 1/2-20, 12 POINT | 3               | Prop           |                 |
| MTG BOLT/STUD               | A-1333-3           | BOLT, MOUNTING, 1/2-20, HEX HEAD | 3               | Prop           |                 |

**IDS No.:** 765      **Rev.:** 1      **D Date:** 01/10/2011

**Modifier:** KWAD CO.  
**Engine Model:** O-540-A1B5, -A3D5, -A1D5  
**Power:** 250 HP @ 2575 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 81.5 +-1.0  
**Cwt Angle:** Positive

**Non-HPI Governor:**

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**PIPER**

**Model:** PA-23-250  
**Trade Name:** AZTEC  
**Aircraft T.C./STC:** STC-SA179CE  
**Propeller Model:** HC-A3MVK-2C  
**Propeller T.C.:** P6EA  
**Blade Model(s):** MV8433N-10  
**Prop Diameter:** 74.6" TO 72"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 14.0 +-0.1  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number | Description                   | Quantity | Qty Per | Comments |
|---------------|-------------|-------------------------------|----------|---------|----------|
| BLADE         | MV8433N-10  | PCP:BLADE UNIT, ALUMINUM      | 3        | Prop    |          |
| SPINNER       | C-2513-2    | SPINNER ASSEMBLY              | 1        | Prop    |          |
| MTG BOLT/STUD | A-1328      | BOLT,MOUNTING,1/2-20,12 POINT | 3        | Prop    |          |
| MTG BOLT/STUD | A-1333-3    | BOLT,MOUNTING,1/2-20,HEX HEAD | 3        | Prop    |          |

**IDS No.:** 768      **Rev.:** 1      **D**      **Date:** 01/10/2011

**Modifier:** KWAD CO.  
**Engine Model:** IO-540-A1A5  
**Power:** 290 HP @ 2575 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 80.0 +-1.0  
**Cwt Angle:** Positive

**Non-HPI Governor:**

**PIPER**

**Model:** PA-23-250  
**Trade Name:** AZTEC  
**Aircraft T.C./STC:** STC-SA441NW  
**Propeller Model:** HC-E3YR-2ATF  
**Propeller T.C.:** P33EA  
**Blade Model(s):** FC7663-2R  
**Prop Diameter:** 76" TO 75"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.0 +-0.1  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:** PIPER

**Hartzell Approved Items:**

| Item Type     | Item Number     | Description                | Quantity | Qty Per | Comments                 |
|---------------|-----------------|----------------------------|----------|---------|--------------------------|
| PROPELLER     | E3R00170        | HC-E3YR-2ATF/FC7663-2R/SM5 | 2        | A/C     |                          |
| BLADE         | FC7663-2R       | PCP:BLADE UNIT, B-3202H-5  | 3        | Prop    |                          |
| SPIN MTG KIT  | A-2476-5        | SPINNER - MTG KIT          | 1        | Prop    |                          |
| COUNTERWEIGHT | B-3202H-5       | PCP:COUNTERWEIGHT          | 1        | Blade   | Blade Component          |
| MTG BOLT/STUD | A-2067          | STUD, MOUNTING, 1/2-20     | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-E3YR-2ATF-OH | O/H KIT                    | 1        | Prop    | For aftermarket use only |

**IDS No.:** 773      **Rev.:** 1      **IC**      **Date:** 07/15/2015

**Modifier:** AAR OF OKLAHOMA  
**Engine Model:** TIO-540-C1A  
**Power:** 250 HP @ 2575 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** 18.5 +-1.5  
**Feather/High Angle:** 80.0 +-0.5  
**Cwt Angle:**

**Non-HPI Governor:**

# HARTZELL

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PIPER

**Model:** PA-23-250 (CERTAIN SER #)  
**Trade Name:** AZTEC  
**Aircraft T.C./STC:** STC-SA1063CE  
**Propeller Model:** HC-E3YR-2ATF  
**Propeller T.C.:**  
**Blade Model(s):** FC7663-2R  
**Prop Diameter:** 76" TO 75"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.0 +-0.2  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number | Description               | Quantity | Qty Per | Comments        |
|---------------|-------------|---------------------------|----------|---------|-----------------|
| BLADE         | FC7663-2R   | PCP:BLADE UNIT, B-3202H-5 | 3        | Prop    |                 |
| SPINNER       | D-3273      | SPINNER ASSEMBLY          | 1        | Prop    |                 |
| COUNTERWEIGHT | B-3202H-5   | PCP:COUNTERWEIGHT         | 1        | Blade   | Blade Component |
| MTG BOLT/STUD | A-2067      | STUD, MOUNTING, 1/2-20    | 6        | Prop    |                 |

**IDS No.:** 772      **Rev.:** -      **DM Date:** 10/01/1992

**Modifier:** AEROSTOL CO.  
**Engine Model:** TIO-540-C1A  
**Power:** 250 HP @ 2575 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** 18.5 +-1.5  
**Feather/High Angle:** 80.0 +-0.5  
**Cwt Angle:**

**Non-HPI Governor:**

PIPER

**Model:** PA-23-250  
**Trade Name:** AZTEC  
**Aircraft T.C./STC:** STC-SA179CE  
**Propeller Model:** HC-83XK-2B, HC-A3XK-2B  
**Propeller T.C.:** P6EA  
**Blade Model(s):** 7636-4  
 7636D-4  
**Prop Diameter:** 72.6" TO 70.25"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 14.0 +-0.1  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type          | Item Number | Description                      | Quantity | Qty Per | Comments |
|--------------------|-------------|----------------------------------|----------|---------|----------|
| BLADE              | 7636-4      | BLADE                            | 3        | Prop    |          |
| BLADE              | 7636D-4     | BLADE                            | 3        | Prop    |          |
| SPINNER            | C-2513-2    | SPINNER ASSEMBLY                 | 1        | Prop    |          |
| COUNTERWEIGHT SLUG | A-29        | SLUG, COUNTERWEIGHT              | 3        | Blade   |          |
| COUNTERWEIGHT SLUG | B-3840-8    | SCREW, 10-32, FILLISTER HEAD     | 2        | Blade   |          |
| MTG BOLT/STUD      | A-1328      | BOLT, MOUNTING, 1/2-20, 12 POINT | 3        | Prop    |          |
| MTG BOLT/STUD      | A-1333-3    | BOLT, MOUNTING, 1/2-20, HEX HEAD | 3        | Prop    |          |

**IDS No.:** 2259      **Rev.:** -      **DM Date:** 11/20/2003

**Modifier:** KWAD CO.  
**Engine Model:** IO-540-G1A5  
**Power:** 290 HP @ 2575 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 81.5 +-1.0  
**Cwt Angle:** Positive

**Non-HPI Governor:**

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**PIPER**

**Model:** PA-23-250  
**Trade Name:** AZTEC  
**Aircraft T.C./STC:** STC-SA179CE  
**Propeller Model:** HC-83VK-2B, HC-A3VK-2B  
**Propeller T.C.:** P6EA  
**Blade Model(s):** V7636D-4  
V7636N-4  
**Prop Diameter:** 72.6" TO 70.25"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 14.0 +-0.1  
**Stud Protrusion**

**IDS No.:** 2260      **Rev.:** -      **DM Date:** 11/20/2003

**Modifier:** KWAD CO.  
**Engine Model:** IO-540-G1A5  
**Power:** 290 HP @ 2575 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 81.5 +-1.0  
**Cwt Angle:** Positive

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type                   | Item Number | Description                      | Quantity | Qty Per | Comments |
|-----------------------------|-------------|----------------------------------|----------|---------|----------|
| BLADE                       | V7636D-4    | BLADE                            | 3        | Prop    |          |
| BLADE                       | V7636N-4    | BLADE                            | 3        | Prop    |          |
| SPINNER                     | C-2513-2    | SPINNER ASSEMBLY                 | 1        | Prop    |          |
| COUNTERWEIGHT SLUG A-29     |             | SLUG, COUNTERWEIGHT              | 3        | Blade   |          |
| COUNTERWEIGHT SLUG B-3840-8 |             | SCREW, 10-32, FILLISTER HEAD     | 2        | Blade   |          |
| MTG BOLT/STUD               | A-1328      | BOLT, MOUNTING, 1/2-20, 12 POINT | 3        | Prop    |          |
| MTG BOLT/STUD               | A-1333-3    | BOLT, MOUNTING, 1/2-20, HEX HEAD | 3        | Prop    |          |

**PIPER**

**Model:** PA-23-250  
**Trade Name:** AZTEC  
**Aircraft T.C./STC:** STC-SA179CE  
**Propeller Model:** HC-A3MVK-2B  
**Propeller T.C.:** P6EA  
**Blade Model(s):** MV7636N-4  
**Prop Diameter:** 72.6" TO 70.25"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 14.0 +-0.1  
**Stud Protrusion**

**IDS No.:** 767      **Rev.:** 1      **D Date:** 01/10/2011

**Modifier:** KWAD CO.  
**Engine Model:** IO-540-G1A5  
**Power:** 290 HP @ 2575 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 81.5 +-1.0  
**Cwt Angle:** Positive

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type                   | Item Number | Description                      | Quantity | Qty Per | Comments |
|-----------------------------|-------------|----------------------------------|----------|---------|----------|
| BLADE                       | MV7636N-4   | PCP:BLADE UNIT, ALUMINUM         | 3        | Prop    |          |
| SPINNER                     | C-2513-2    | SPINNER ASSEMBLY                 | 1        | Prop    |          |
| COUNTERWEIGHT SLUG A-29     |             | SLUG, COUNTERWEIGHT              | 3        | Blade   |          |
| COUNTERWEIGHT SLUG B-3840-8 |             | SCREW, 10-32, FILLISTER HEAD     | 2        | Blade   |          |
| MTG BOLT/STUD               | A-1328      | BOLT, MOUNTING, 1/2-20, 12 POINT | 3        | Prop    |          |
| MTG BOLT/STUD               | A-1333-3    | BOLT, MOUNTING, 1/2-20, HEX HEAD | 3        | Prop    |          |



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**PIPER**

**Model:** PA-23-250 (CERTAIN SER #)  
**Trade Name:** AZTEC  
**Aircraft T.C./STC:** STC-SA1063CE  
**Propeller Model:** HC-E3YR-2ATF  
**Propeller T.C.:**  
**Blade Model(s):** FC7663-2R  
**Prop Diameter:** 76" TO 75"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.0 +-0.2  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number | Description               | Quantity | Qty Per | Comments        |
|---------------|-------------|---------------------------|----------|---------|-----------------|
| BLADE         | FC7663-2R   | PCP:BLADE UNIT, B-3202H-5 | 3        | Prop    |                 |
| SPINNER       | D-3273      | SPINNER ASSEMBLY          | 1        | Prop    |                 |
| COUNTERWEIGHT | B-3202H-5   | PCP:COUNTERWEIGHT         | 1        | Blade   | Blade Component |
| MTG BOLT/STUD | A-2067      | STUD, MOUNTING, 1/2-20    | 6        | Prop    |                 |

**IDS No.:** 764      **Rev.:** -      **DM Date:** 10/01/1992

**Modifier:** AEROSTOL CO.  
**Engine Model:** IO-540-J4A5, -C4B5  
**Power:** 250 HP @ 2575 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** 18.5 +-1.5  
**Feather/High Angle:** 80.0 +-0.5  
**Cwt Angle:**

**Non-HPI Governor:**

**PIPER**

**Model:** PA-23-250  
**Trade Name:** AZTEC  
**Aircraft T.C./STC:** STC-SA441NW  
**Propeller Model:** HC-E3YR-2ATF  
**Propeller T.C.:**  
**Blade Model(s):** FC7663-2R  
**Prop Diameter:** 76" TO 75"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.0 +-0.1  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:** PIPER

**Hartzell Approved Items:**

| Item Type     | Item Number    | Description               | Quantity | Qty Per | Comments                 |
|---------------|----------------|---------------------------|----------|---------|--------------------------|
| BLADE         | FC7663-2R      | PCP:BLADE UNIT, B-3202H-5 | 3        | Prop    |                          |
| COUNTERWEIGHT | B-3202H-5      | PCP:COUNTERWEIGHT         | 1        | Blade   | Blade Component          |
| MTG BOLT/STUD | A-2067         | STUD, MOUNTING, 1/2-20    | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-C2YK-1BF-OH | O/H KIT                   | 1        | Prop    | For aftermarket use only |

**IDS No.:** 769      **Rev.:** 1      **IC Date:** 07/07/2015

**Modifier:** WESTERN SKYWAYS  
**Engine Model:** IO-540-J4A5, -C4B5  
**Power:** 250 HP @ 2575 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** 18.5 +-1.5  
**Feather/High Angle:** 80.0 +-0.5  
**Cwt Angle:**

**Non-HPI Governor:**

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PIPER

IDS No.: 2864 Rev.: 4 BC Date: 07/10/2014

**Model:** PA-23-250  
**Trade Name:** AZTEC  
**Aircraft T.C./STC:** SA02874CH-D  
**Propeller Model:** HC-E2YR-2BTF  
**Propeller T.C.:** P9EA

**Modifier:** HARTZELL PROPELLER  
**Engine Model:** IO-540-C4B5, TIO-540-C1A  
**Power:** 250 HP @ 2575 RPM  
**Placard/Restr:** IO-540-C4B5 - Prop feather/functional checks must be above 1400 RPM  
TIO-540-C1A - Prop feather/functional checks must be above 1100 RPM

**Blade Model(s):** FC7693F+1  
FC7693FB+1  
FC7693FB+1\*1

**Notes:**

**Prop Diameter:** 77"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** 16.9 +/- 0.2  
**Stud Protrusion**

**Startlock Angle:** 23.0 +/- 1.5  
**Feather/High Angle:** 80.5 +/- 1.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type     | Item Number    | Description                    | Quantity | Qty Per | Comments                  |
|---------------|----------------|--------------------------------|----------|---------|---------------------------|
| PROPELLER     | E2R00122       | HC-E2YR-2BTF/FC7693FB+1/SM4    | 2        | A/C     |                           |
| PROPELLER     | E2R00123       | HC-E2YR-2BTF/FC7693F+1/SM4     | 2        | A/C     |                           |
| PROPELLER     | E2R00124       | HC-E2YR-2BTF/FC7693FB+1[*1/SM4 | 2        | A/C     |                           |
| BLADE         | FC7693F+1      | PCP:BLADE UNIT, ALUMINUM       | 2        | Prop    |                           |
| BLADE         | FC7693FB+1     | PCP:BLADE UNIT, ALUM, 103680   | 2        | Prop    |                           |
| BLADE         | FC7693FB+1*1   | PCP:BLADE UNIT, ALUM, 103679   | 2        | Prop    |                           |
| SPINNER       | 103409         | SPINNER ASSEMBLY               | 1        | Prop    |                           |
| SPINNER       | 103409F1       | SPINNER ASSEMBLY               | 1        | Prop    |                           |
| SPIN MTG KIT  | A-2476-4       | SPINNER - MTG KIT              | 1        | Prop    |                           |
| COUNTERWEIGHT | B-3202H-5      | PCP:COUNTERWEIGHT              | 1        | Blade   |                           |
| DE-ICER       | 103679         | DE-ICE BOOT                    | 1        | Blade   | 14v boot for FC7693FB+1*1 |
| DE-ICER       | 103680         | DE-ICE BOOT                    | 1        | Blade   | 28v boot for FC7693FB+1   |
| DE-ICE KIT PR | 103719         | DE-ICE KIT (ONE PROP)          | 1        | Prop    |                           |
| DE-ICE KIT PR | 7931-77-870-1* | DE-ICE KIT (ONE PROP)          | 1        | Prop    |                           |
| MTG BOLT/STUD | A-2067         | STUD, MOUNTING, 1/2-20         | 6        | Prop    |                           |

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PIPER

IDS No.: 774 Rev.: - DM Date: 09/10/2004

Model: PA-24  
Trade Name: COMANCHE  
Aircraft T.C./STC: 1A15  
Propeller Model: HC-92ZK-8D  
Propeller T.C.: P892  
Blade Model(s): 8447A-12A  
8447AN-12A  
Prop Diameter: 72.25" TO 70.5"

Modifier:  
Engine Model: O-360-A1A, -A1D  
Power: 180 HP @ 2700 RPM  
Placard/Restr:  
Notes:

### Prop Setup:

Ref. Radius: 30  
Reverse Angle: NA  
Low Pitch Angle: 13.0 +-0.2  
Stud Protrusion

Startlock Angle: NA  
Feather/High Angle: 27.0 +-1.0  
Cwt Angle:

### Non-HPI Items:

Non-HPI Spinner:

Non-HPI Governor:

### Hartzell Approved Items:

| Item Type     | Item Number | Description                      | Quantity | Qty Per | Comments             |
|---------------|-------------|----------------------------------|----------|---------|----------------------|
| BLADE         | 8447A-12A   | BLADE UNIT, ALUMINUM             | 2        | Prop    |                      |
| BLADE         | 8447AN-12A  | PCP:BLADE UNIT, ALUMINUM         | 2        | Prop    |                      |
| SPINNER       | 835-30      | SPINNER ASSEMBLY                 | 1        | Prop    |                      |
| SPINNER       | 835-6       | IDS Item                         | 1        | Prop    | Superseded by 835-30 |
| GOVERNOR      | D1-1        | IDS Item                         | 1        | A/C     |                      |
| GOVERNOR      | D1-5        | IDS Item                         | 1        | A/C     |                      |
| MTG BOLT/STUD | A-1333      | BOLT, MOUNTING, 1/2-20, HEX HEAD | 4        | Prop    |                      |
| MTG BOLT/STUD | A-1333-2    | IDS Item                         | 2        | Prop    |                      |

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**PIPER**

**Model:** PA-24  
**Trade Name:** COMANCHE  
**Aircraft T.C./STC:** STC-SA00631CH  
**Propeller Model:** HC-C2YR-1BF  
**Propeller T.C.:** P-920

**Blade Model(s):** F7666A-4  
 F7666A-4\*1  
**Prop Diameter:** 72.0" NO CUT OFF

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.0 +-0.1  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number    | Description                 | Quantity | Qty Per | Comments                            |
|---------------|----------------|-----------------------------|----------|---------|-------------------------------------|
| PROPELLER     | C2R00027       | HC-C2YR-1BF/F7666A-4        | 1        | A/C     |                                     |
| BLADE         | F7666A-4       | PCP:BLADE UNIT, ALUMINUM    | 2        | Prop    |                                     |
| BLADE         | F7666A-4*1     | IDS ITEM, BLADE, [3,1,1]    | 2        | Prop    |                                     |
| SPINNER       | 103585         | SPINNER ASSEMBLY, COMPOSITE | 1        | Prop    | Surface primed - suitable for paint |
| SPINNER       | 103585F1       | SPINNER ASSEMBLY, COMPOSITE | 1        | Prop    | Painted Matterhorn White            |
| SPINNER       | 103585F2       | SPINNER ASSEMBLY, COMPOSITE | 1        | Prop    | Painted Silver Metallic             |
| SPINNER       | 835-54         | SPINNER ASSEMBLY, "CNC"     | 1        | Prop    |                                     |
| SPINNER       | 835-54P        | SPINNER ASSEMBLY, "CNC"     | 1        | Prop    |                                     |
| SPINNER       | 835-58         | SPINNER ASSEMBLY            | 1        | Prop    |                                     |
| SPINNER       | 835-58P        | SPINNER ASSEMBLY            | 1        | Prop    |                                     |
| GOVERNOR      | D1-1           | IDS Item                    | 1        | A/C     |                                     |
| GOVERNOR      | D1-5           | IDS Item                    | 1        | A/C     |                                     |
| MTG BOLT/STUD | A-2067         | STUD, MOUNTING, 1/2-20      | 6        | Prop    |                                     |
| OVERHAUL KIT  | HC-C2YR-1BF-OH | O/H KIT                     | 1        | Prop    | For aftermarket use only            |

**IDS No.:** 1315      **Rev.:** 5      **IC Date:** 07/07/2015

**Modifier:** HARTZELL PROPELLER INC.  
**Engine Model:** O-360-A1A, -A1D  
**Power:** 180 HP @ 2700 RPM  
**Placard/Restr:** Avoid continuous operation between 2000 and 2250 RPM

**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 29.0 +-2.0  
**Cwt Angle:**

**Non-HPI Governor:**

**PIPER**

**Model:** PA-24 SERIES  
**Trade Name:** COMANCHE  
**Aircraft T.C./STC:** STC-SE3552(3553)NM  
**Propeller Model:** HC-A2XK-1  
**Propeller T.C.:** P908  
**Blade Model(s):** 8433-7  
**Prop Diameter:** 76"

**Prop Setup:**

**Ref. Radius:**  
**Reverse Angle:**  
**Low Pitch Angle:**  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type | Item Number | Description      | Quantity | Qty Per | Comments |
|-----------|-------------|------------------|----------|---------|----------|
| BLADE     | 8433-7      | BLADE            | 2        | Prop    |          |
| SPINNER   | 835-30      | SPINNER ASSEMBLY | 1        | Prop    |          |

**IDS No.:** 2397      **Rev.:** -      **DM Date:** 12/18/2003

**Modifier:** JOHNSTON AIRCRAFT  
**Engine Model:** O-540-B1B5  
**Power:** 235 HP @ 2575 RPM  
**Placard/Restr:**

**Notes:**

**Startlock Angle:**  
**Feather/High Angle:**  
**Cwt Angle:**

**Non-HPI Governor:**

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**PIPER**

**Model:** PA-24 SERIES  
**Trade Name:** COMANCHE  
**Aircraft T.C./STC:** STC-SE3552 (3553)NM  
**Propeller Model:** HC-A2VK-1  
**Propeller T.C.:** P24EA  
**Blade Model(s):** V8433-7  
V8433N-7  
**Prop Diameter:** 76"

**Prop Setup:**

**Ref. Radius:**  
**Reverse Angle:**  
**Low Pitch Angle:**  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type | Item Number | Description      | Quantity | Qty Per | Comments |
|-----------|-------------|------------------|----------|---------|----------|
| BLADE     | V8433-7     | BLADE            | 2        | Prop    |          |
| BLADE     | V8433N-7    | BLADE            | 2        | Prop    |          |
| SPINNER   | 835-30      | SPINNER ASSEMBLY | 1        | Prop    |          |

**IDS No.:** 2398      **Rev.:** -      **DM Date:** 12/18/2003

**Modifier:** JOHNSTON AIRCRAFT  
**Engine Model:** O-540-B1B5  
**Power:** 235 HP @ 2575 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:**  
**Feather/High Angle:**  
**Cwt Angle:**

**Non-HPI Governor:**

**PIPER**

**Model:** PA-24-250  
**Trade Name:** COMANCHE  
**Aircraft T.C./STC:** 1A15  
**Propeller Model:** HC-82XK-1, HC-A2XK-1, HC-82XK-1D  
**Propeller T.C.:** P24EA  
**Blade Model(s):** 8433-7  
**Prop Diameter:** 77 7/16" TO 76"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 14.5+-0.2  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type                   | Item Number | Description                      | Quantity | Qty Per | Comments             |
|-----------------------------|-------------|----------------------------------|----------|---------|----------------------|
| BLADE                       | 8433-7      | BLADE                            | 2        | Prop    |                      |
| SPINNER                     | 835-30      | SPINNER ASSEMBLY                 | 1        | Prop    |                      |
| SPINNER                     | 835-6       | IDS Item                         | 1        | Prop    | Superseded by 835-30 |
| GOVERNOR                    | B4-2        | GOVERNOR ASSEMBLY, B-4( )        | 1        | A/C     |                      |
| COUNTERWEIGHT SLUG A-619-1  |             | SLUG, COUNTERWEIGHT              | 1        | Blade   |                      |
| COUNTERWEIGHT SLUG B-3840-6 |             | SCREW, 10-32, FILLISTER HEAD     | 2        | Blade   |                      |
| MTG BOLT/STUD               | A-1333-2    | IDS Item                         | 2        | Prop    | Primary              |
| MTG BOLT/STUD               | A-1333-3    | BOLT, MOUNTING, 1/2-20, HEX HEAD | 4        | Prop    |                      |
| MTG BOLT/STUD               | A-1333-6    | BOLT, MOUNTING, 1/2-20, HEX HEAD | 2        | Prop    | Secondary            |

**IDS No.:** 2265      **Rev.:** -      **DM Date:** 01/12/2004

**Modifier:**  
**Engine Model:** O-540-A1A,-A1(A,B,C,D)5;IO-540-C1B5  
**Power:** 250 HP @ 2575 RPM  
**Placard/Restr:**

**Notes:**  
**Startlock Angle:** NA  
**Feather/High Angle:** 31.0 MIN  
**Cwt Angle:** Positive

**Non-HPI Governor:** WOODWARD

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PIPER

IDS No.: 2266 Rev.: - DM Date: 01/12/2004

**Model:** PA-24-250  
**Trade Name:** COMANCHE  
**Aircraft T.C./STC:** 1A15  
**Propeller Model:** HC-82VK-1, HC-A2VK-1, HC-82VK-1D  
  
**Propeller T.C.:** P24EA  
**Blade Model(s):** V8433-7  
 V8433N-7  
  
**Prop Diameter:** 77 7/16" TO 76"

**Modifier:**  
**Engine Model:** O-540-A1A,-A1(A,B,C,D)5;IO-540-C1B5  
**Power:** 250 HP @ 2575 RPM  
**Placard/Restr:**

**Notes:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 14.5+0.2  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 31.0 MIN  
**Cwt Angle:** Positive

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:** WOODWARD

**Hartzell Approved Items:**

| <u>Item Type</u>            | <u>Item Number</u> | <u>Description</u>            | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>      |
|-----------------------------|--------------------|-------------------------------|-----------------|----------------|----------------------|
| BLADE                       | V8433-7            | BLADE                         | 2               | Prop           |                      |
| BLADE                       | V8433N-7           | BLADE                         | 2               | Prop           |                      |
| SPINNER                     | 835-30             | SPINNER ASSEMBLY              | 1               | Prop           |                      |
| SPINNER                     | 835-6              | IDS Item                      | 1               | Prop           | Superseded by 835-30 |
| GOVERNOR                    | B4-2               | GOVERNOR ASSEMBLY, B-4( )     | 1               | A/C            |                      |
| COUNTERWEIGHT SLUG A-619-1  |                    | SLUG, COUNTERWEIGHT           | 1               | Blade          |                      |
| COUNTERWEIGHT SLUG B-3840-6 |                    | SCREW, 10-32, FILLISTER HEAD  | 2               | Blade          |                      |
| MTG BOLT/STUD               | A-1333-2           | IDS Item                      | 2               | Prop           | Primary              |
| MTG BOLT/STUD               | A-1333-3           | BOLT,MOUNTING,1/2-20,HEX HEAD | 4               | Prop           |                      |
| MTG BOLT/STUD               | A-1333-6           | BOLT,MOUNTING,1/2-20,HEX HEAD | 2               | Prop           | Secondary            |

# HARTZELL

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**PIPER**

**Model:** PA-24-250  
**Trade Name:** COMANCHE  
**Aircraft T.C./STC:** 1A15  
**Propeller Model:** HC-A2MVK-1  
**Propeller T.C.:** P24EA  
**Blade Model(s):** MV8433N-7  
**Prop Diameter:** 77 7/16" TO 76"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 14.5+-0.2  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**IDS No.:** 775      **Rev.:** 2      **IC**      **Date:** 07/06/2015

**Modifier:**  
**Engine Model:** O-540-A1A,-A1(A,B,C,D)5;IO-540-C1B5  
**Power:** 250 HP @ 2575 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 31.0 MIN  
**Cwt Angle:** Positive

**Non-HPI Governor:** WOODWARD

**Hartzell Approved Items:**

| Item Type                   | Item Number   | Description                   | Quantity | Qty Per | Comments                 |
|-----------------------------|---------------|-------------------------------|----------|---------|--------------------------|
| PROPELLER                   | A2K10020      | HC-A2MVK-1/MV8433N-7          | 1        | A/C     |                          |
| BLADE                       | MV8433N-7     | PCP:BLADE UNIT, ALUMINUM      | 2        | Prop    |                          |
| SPINNER                     | 835-30        | SPINNER ASSEMBLY              | 1        | Prop    |                          |
| SPINNER                     | 835-6         | IDS Item                      | 1        | Prop    | Superceded by 835-30     |
| GOVERNOR                    | B4-2          | GOVERNOR ASSEMBLY, B-4( )     | 1        | A/C     |                          |
| COUNTERWEIGHT SLUG A-619-1  |               | SLUG, COUNTERWEIGHT           | 1        | Blade   |                          |
| COUNTERWEIGHT SLUG B-3840-6 |               | SCREW, 10-32, FILLISTER HEAD  | 2        | Blade   |                          |
| MTG BOLT/STUD               | A-1333-2      | IDS Item                      | 2        | Prop    | Primary                  |
| MTG BOLT/STUD               | A-1333-3      | BOLT,MOUNTING,1/2-20,HEX HEAD | 4        | Prop    |                          |
| MTG BOLT/STUD               | A-1333-6      | BOLT,MOUNTING,1/2-20,HEX HEAD | 2        | Prop    | Secondary                |
| OVERHAUL KIT                | HC-A2MVK-1-OH | O/H KIT                       | 1        | Prop    | For aftermarket use only |

**PIPER**

**Model:** PA-24-250  
**Trade Name:** COMANCHE  
**Aircraft T.C./STC:** STC-SA3550NM  
**Propeller Model:** HC-C2YK-1BF  
**Propeller T.C.:** P-920  
**Blade Model(s):** F8477D-5R  
**Prop Diameter:** 79"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 14.4 +-0.1  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**IDS No.:** 776      **Rev.:** -      **DM**      **Date:** 10/02/1997

**Modifier:** JOHNSTON AIRCRAFT SERVICE  
**Engine Model:** O-540-A4(A,B,C,D)5, IO-540-C4B5  
**Power:** 250 HP @ 2575 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 31.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type     | Item Number | Description               | Quantity | Qty Per | Comments |
|---------------|-------------|---------------------------|----------|---------|----------|
| BLADE         | F8477D-5R   | PCP:BLADE UNIT, ALUMINUM  | 2        | Prop    |          |
| SPINNER       | A-3519      | SPINNER ASSEMBLY          | 1        | Prop    |          |
| GOVERNOR      | F4-4A       | GOVERNOR ASSEMBLY, F-4( ) | 1        | A/C     |          |
| MTG BOLT/STUD | A-2067      | STUD, MOUNTING, 1/2-20    | 6        | Prop    |          |

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**PIPER**

**Model:** PA-24-250  
**Trade Name:** COMANCHE  
**Aircraft T.C./STC:** STC-00423LA  
**Propeller Model:** HC-C3YR-1RF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** F7590  
**Prop Diameter:** 77"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 14.2 +-0.2  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number    | Description                  | Quantity | Qty Per | Comments                 |
|---------------|----------------|------------------------------|----------|---------|--------------------------|
| PROPELLER     | C3R00027       | HC-C3YR-1RF/F7590/SM7        | 1        | A/C     |                          |
| PROPELLER     | C3R00027KD     | HC-C3YR-1RF/F7590/SM7        | 1        | A/C     |                          |
| BLADE         | F7590          | PCP:BLADE UNIT, ALUM [6,1,5] | 3        | Prop    |                          |
| SPINNER       | 835-52         | IDS Item                     | 1        | Prop    |                          |
| SPINNER       | 835-52P        | SPINNER ASSEMBLY             | 1        | Prop    |                          |
| SPINNER       | C-3535-1P      | SPINNER ASSEMBLY             | 1        | Prop    |                          |
| GOVERNOR      | F4-4           | IDS Item                     | 1        | A/C     |                          |
| GOVERNOR      | F4-4A          | GOVERNOR ASSEMBLY, F-4-()    | 1        | A/C     |                          |
| SPIN MTG KIT  | A-2476-7       | SPINNER - MTG KIT            | 1        | Prop    | For C-3535-1P only       |
| MTG BOLT/STUD | A-2067         | STUD, MOUNTING, 1/2-20       | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-C3YR-1RF-OH | O/H KIT                      | 1        | Prop    | For aftermarket use only |

**IDS No.:** 1406      **Rev.:** 2      **IC Date:** 07/16/2015

**Modifier:** JOHNSTON AIRCRAFT SERVICE  
**Engine Model:** O-540-A4(A,B,C,D)5, IO-540-C4B5  
**Power:** 250 HP @ 2575 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 31.5 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

**PIPER**

**Model:** PA-24-250  
**Trade Name:** COMANCHE  
**Aircraft T.C./STC:** STC-SA3451WE  
**Propeller Model:** HC-A3MVK-4  
**Propeller T.C.:** P6EA  
**Blade Model(s):** MV7636N  
**Prop Diameter:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** UNKNOWN  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:** UNKNOWN

**Hartzell Approved Items:**

| Item Type     | Item Number | Description                   | Quantity | Qty Per | Comments |
|---------------|-------------|-------------------------------|----------|---------|----------|
| BLADE         | MV7636N     | PCP:BLADE UNIT, ALUM [1,1,1]  | 3        | Prop    |          |
| MTG BOLT/STUD | A-1333-3    | BOLT,MOUNTING,1/2-20,HEX HEAD | 6        | Prop    |          |

**IDS No.:** 1938      **Rev.:** 1      **D Date:** 01/10/2011

**Modifier:** AIRCRAFT TECHNICAL SERVICE INC.  
**Engine Model:** IO-540-C1B5  
**Power:** 250 HP @ 2575 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** UNKNOWN  
**Cwt Angle:** NA

**Non-HPI Governor:** UNKNOWN



# HARTZELL

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PIPER

**Model:** PA-24-260  
**Trade Name:** COMANCHE  
**Aircraft T.C./STC:** 1A15  
**Propeller Model:** HC-C2YK-1B(F)  
**Propeller T.C.:** P-920

**Blade Model(s):** F8467-7R  
**Prop Diameter:** 77" TO 75"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 15.0 +-0.1  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:** PIPER

**IDS No.:** 778      **Rev.:** 1      **IC Date:** 07/07/2015

**Modifier:**  
**Engine Model:** O-540-E4A5; IO-540-D4A5

**Power:** 260 HP @ 2700 RPM

**Placard/Restr:** If diameter becomes less than 75 inches:  
avoid continuous operation between 2500  
and 2600 RPM above 25 in. MP.

### Notes:

**Startlock Angle:** NA  
**Feather/High Angle:** 33.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>        | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|---------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | C2K00080           | HC-C2YK-1BF/F8467-7R      | 1               | A/C            |                          |
| BLADE            | F8467-7R           | PCP:BLADE UNIT, ALUMINUM  | 2               | Prop           |                          |
| GOVERNOR         | F4-4               | IDS Item                  | 1               | A/C            |                          |
| GOVERNOR         | F4-4A              | GOVERNOR ASSEMBLY, F-4( ) | 1               | A/C            |                          |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20    | 6               | Prop           |                          |
| OVERHAUL KIT     | HC-C2YK-1BF-OH     | O/H KIT                   | 1               | Prop           | For aftermarket use only |

PIPER

**Model:** PA-24-260  
**Trade Name:** COMANCHE  
**Aircraft T.C./STC:** 1A15  
**Propeller Model:** HC-E2YR-1BF  
**Propeller T.C.:** P9EA  
**Blade Model(s):** F8467-7R  
**Prop Diameter:** 77" TO 75"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 15.0 +-0.1  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:** PIPER

**IDS No.:** 777      **Rev.:** 1      **IC Date:** 07/07/2015

**Modifier:**  
**Engine Model:** IO-540-N1A5

**Power:** 260 HP @ 2700 RPM

**Placard/Restr:**

### Notes:

**Startlock Angle:** NA  
**Feather/High Angle:** 33.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>        | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|---------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | E2R00046           | HC-E2YR-1BF/F8467-7R      | 1               | A/C            |                          |
| BLADE            | F8467-7R           | PCP:BLADE UNIT, ALUMINUM  | 2               | Prop           |                          |
| GOVERNOR         | F4-4               | IDS Item                  | 1               | A/C            | Narrow Deck Engine Only  |
| GOVERNOR         | F4-4A              | GOVERNOR ASSEMBLY, F-4( ) | 1               | A/C            | Narrow Deck Engine Only  |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20    | 6               | Prop           |                          |
| OVERHAUL KIT     | HC-E2YR-1BF-OH     | O/H KIT                   | 1               | Prop           | For aftermarket use only |

# HARTZELL

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PIPER

IDS No.: 779      Rev.: 2      IC      Date: 10/15/2020

**Model:** PA-24-260  
**Trade Name:** COMANCHE  
**Aircraft T.C./STC:** 1A15  
**Propeller Model:** HC-E2YR-1BF  
**Propeller T.C.:** P9EA  
**Blade Model(s):** F8467-7R  
**Prop Diameter:** 77" TO 75"

**Modifier:**  
**Engine Model:** IO-540-R1A5 (turbo)  
**Power:** 260 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.65 +-0.15  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 33.0 +-1.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:** PIPER

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>         | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|----------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | E2R00040           | HC-E2YR-1BF/F8467-7R       | 1               | A/C            |                          |
| BLADE            | F8467-7R           | PCP:BLADE UNIT, ALUMINUM   | 2               | Prop           |                          |
| GOVERNOR         | F4-4               | IDS Item                   | 1               | A/C            |                          |
| GOVERNOR         | F4-4A              | GOVERNOR ASSEMBLY, F-4-( ) | 1               | A/C            |                          |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20     | 6               | Prop           |                          |
| OVERHAUL KIT     | HC-E2YR-1BF-OH     | O/H KIT                    | 1               | Prop           | For aftermarket use only |

# HARTZELL

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PIPER

IDS No.: 1162 Rev.: 3 IC Date: 07/16/2015

**Model:** PA-24-260  
**Trade Name:** COMANCHE 260, 260B  
**Aircraft T.C./STC:** STC-SA288CH  
**Propeller Model:** HC-C3YR-1RF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** F7590  
 F7590\*1  
**Prop Diameter:** 77.0" TO 76.0"

**Modifier:** HARTZELL PROPELLER  
**Engine Model:** IO-540-D4A5, -E4A5  
**Power:** 260 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.8 +-0.2  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 30.5 +-1.0  
**Cwt Angle:**

### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| Item Type     | Item Number    | Description                  | Quantity | Qty Per | Comments                 |
|---------------|----------------|------------------------------|----------|---------|--------------------------|
| PROPELLER     | C3R00023       | HC-C3YR-1RF/F7590            | 1        | A/C     |                          |
| PROPELLER     | C3R00023KD     | HC-C3YR-1RF/F7590            | 1        | A/C     |                          |
| PROPELLER     | C3R00023SKDTP  | C3R00023/835-52P             | 1        | A/C     |                          |
| PROPELLER     | C3R00023STP    | C3R00023/835-52P             | 1        | A/C     |                          |
| BLADE         | F7590          | PCP:BLADE UNIT, ALUM [6,1,5] | 3        | Prop    |                          |
| BLADE         | F7590*1        | PCP:BLADE UNIT, ALUM [3,1,5] | 3        | Prop    |                          |
| SPINNER       | 103629         | SPINNER ASSEMBLY, COMPOSITE  | 1        | Prop    |                          |
| SPINNER       | 103629F1       | SPINNER ASSEMBLY, COMPOSITE  | 1        | Prop    |                          |
| SPINNER       | 103629F2       | SPINNER ASSEMBLY, COMPOSITE  | 1        | Prop    |                          |
| SPINNER       | 835-52P        | SPINNER ASSEMBLY             | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2067         | STUD, MOUNTING, 1/2-20       | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-C3YR-1RF-OH | O/H KIT                      | 1        | Prop    | For aftermarket use only |

# HARTZELL

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**PIPER**

**Model:** PA-24-260  
**Trade Name:** COMANCHE 260C  
**Aircraft T.C./STC:** STC-SA288CH  
**Propeller Model:** HC-E3YR-1RF  
**Propeller T.C.:** P33EA  
**Blade Model(s):** F7590  
**Prop Diameter:** 77" to 76"

**IDS No.:** 1810      **Rev.:** 2      **IC Date:** 07/16/2015

**Modifier:** HARTZELL PROPELLER  
**Engine Model:** IO-540-D4A5, -N1A5, -R1A5  
**Power:** 260 HP @ 2700 RPM  
**Placard/Restr:**

**Notes:** For Comanche 260C only (S/N 24-4783 AND 24-4804 - 24-5034)

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.8 +-0.2  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 30.5 +-1.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type     | Item Number    | Description                  | Quantity | Qty Per | Comments                 |
|---------------|----------------|------------------------------|----------|---------|--------------------------|
| PROPELLER     | E3R00019       | HC-E3YR-1RF/F7590/SM23       | 1        | A/C     |                          |
| PROPELLER     | E3R00019KD     | HC-E3YR-1RF/F7590/SM23       | 1        | A/C     |                          |
| PROPELLER     | E3R00019SKDTP  | E3R00019/SM23/C-4582-P       | 1        | A/C     |                          |
| PROPELLER     | E3R00019STP    | E3R00019/SM23/C-4582-P       | 1        | A/C     |                          |
| BLADE         | F7590          | PCP:BLADE UNIT, ALUM [6,1,5] | 3        | Prop    |                          |
| SPINNER       | C-4582-P       | SPINNER ASSEMBLY             | 1        | Prop    |                          |
| GOVERNOR      | F4-4           | IDS Item                     | 1        | A/C     |                          |
| GOVERNOR      | F4-4A          | GOVERNOR ASSEMBLY, F-4-( )   | 1        | A/C     |                          |
| SPIN MTG KIT  | A-2476-23      | SPINNER - MTG KIT            | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2067         | STUD, MOUNTING, 1/2-20       | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-E3YR-1RF-OH | O/H KIT                      | 1        | Prop    | For aftermarket use only |

**PIPER**

**Model:** PA-24-260  
**Trade Name:** COMANCHE  
**Aircraft T.C./STC:** SA3551NM  
**Propeller Model:** HC-C2YK-1BF  
**Propeller T.C.:** P-920  
**Blade Model(s):** F8477D-5R  
**Prop Diameter:** 79"

**IDS No.:** 780      **Rev.:** 1      **IC Date:** 07/07/2015

**Modifier:** JOHNSTON AIRCRAFT SERVICE  
**Engine Model:** O-540-E4A5, IO-540-D4A5  
**Power:** 260 HP @ 2700 RPM  
**Placard/Restr:**

**Notes:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 14.4 +-0.1  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 31.0 +-1.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type     | Item Number    | Description              | Quantity | Qty Per | Comments                      |
|---------------|----------------|--------------------------|----------|---------|-------------------------------|
| PROPELLER     | C2K00185       | HC-C2YK-1BF/F8477D-5R    | 1        | A/C     |                               |
| BLADE         | F8477D-5R      | PCP:BLADE UNIT, ALUMINUM | 2        | Prop    |                               |
| SPINNER       | A-3519         | SPINNER ASSEMBLY         | 1        | Prop    | Starter Ring Gear Mntd-No SMK |
| MTG BOLT/STUD | A-2067         | STUD, MOUNTING, 1/2-20   | 6        | Prop    |                               |
| OVERHAUL KIT  | HC-C2YK-1BF-OH | O/H KIT                  | 1        | Prop    | For aftermarket use only      |

# HARTZELL

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**PIPER**

**Model:** PA-24-400  
**Trade Name:** COMANCHE  
**Aircraft T.C./STC:** 1A15  
**Propeller Model:** HC-A3VK-4  
**Propeller T.C.:** P6EA  
**Blade Model(s):** V8433-7  
 V8433N-7  
**Prop Diameter:** 77 5/8" TO 75 5/8"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 14.0 +-0.1  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:** PIPER

**Hartzell Approved Items:**

| Item Type     | Item Number | Description                   | Quantity | Qty Per | Comments |
|---------------|-------------|-------------------------------|----------|---------|----------|
| BLADE         | V8433-7     | BLADE                         | 3        | Prop    |          |
| BLADE         | V8433N-7    | BLADE                         | 3        | Prop    |          |
| GOVERNOR      | F4-1        | IDS Item                      | 1        | A/C     |          |
| MTG BOLT/STUD | A-1333-3    | BOLT,MOUNTING,1/2-20,HEX HEAD | 6        | Prop    |          |

**IDS No.:** 2267      **Rev.:** -      **DM Date:** 11/20/2003

**Modifier:**  
**Engine Model:** IO-720-A1A  
**Power:** 400 HP @ 2650 RPM  
**Placard/Restr:** Do not exceed 24 in. MP below 2000 RPM  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 36.0 +-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:**

**PIPER**

**Model:** PA-24-400  
**Trade Name:** COMANCHE  
**Aircraft T.C./STC:** 1A15  
**Propeller Model:** HC-A3MVK-4  
**Propeller T.C.:** P6EA  
**Blade Model(s):** MV8433N-7  
**Prop Diameter:** 77 5/8" TO 75 5/8"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 14.0 +-0.1  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:** PIPER

**Hartzell Approved Items:**

| Item Type     | Item Number   | Description                   | Quantity | Qty Per | Comments                 |
|---------------|---------------|-------------------------------|----------|---------|--------------------------|
| PROPELLER     | A3K10216      | HC-A3MVK-4/MV8433N-7          | 1        | A/C     |                          |
| BLADE         | MV8433N-7     | PCP:BLADE UNIT, ALUMINUM      | 3        | Prop    |                          |
| GOVERNOR      | F4-1          | IDS Item                      | 1        | A/C     |                          |
| MTG BOLT/STUD | A-1333-3      | BOLT,MOUNTING,1/2-20,HEX HEAD | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-A3MVK-4-OH | O/H KIT                       | 1        | Prop    | For aftermarket use only |

**IDS No.:** 782      **Rev.:** 2      **IC Date:** 07/07/2015

**Modifier:**  
**Engine Model:** IO-720-A1A  
**Power:** 400 HP @ 2650 RPM  
**Placard/Restr:** Do not exceed 24 in. MP below 2000 RPM  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 36.0 +-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:**

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**PIPER**

**Model:** PA-24S  
**Trade Name:** COMANCHE  
**Aircraft T.C./STC:** STC-SA511WE  
**Propeller Model:** HC-82XK-1, HC-A2XK-1  
**Propeller T.C.:** P24EA  
**Blade Model(s):** 8433-7  
**Prop Diameter:** 76.6"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:**  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type                   | Item Number | Description                  | Quantity | Qty Per | Comments |
|-----------------------------|-------------|------------------------------|----------|---------|----------|
| BLADE                       | 8433-7      | BLADE                        | 2        | Prop    |          |
| SPINNER                     | 835-30      | SPINNER ASSEMBLY             | 1        | Prop    |          |
| COUNTERWEIGHT SLUG A-619-1  |             | SLUG, COUNTERWEIGHT          | 1        | Blade   |          |
| COUNTERWEIGHT SLUG B-3840-6 |             | SCREW, 10-32, FILLISTER HEAD | 2        | Blade   |          |

**IDS No.:** 2268      **Rev.:** -      **DM Date:** 11/20/2003

**Modifier:** JOHNSTON AIRCRAFT SERVICE  
**Engine Model:** O-540-B1B5  
**Power:** 235 HP @ 2575 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:**  
**Feather/High Angle:**  
**Cwt Angle:** Positive

**Non-HPI Governor:**

**PIPER**

**Model:** PA-24S  
**Trade Name:** COMANCHE  
**Aircraft T.C./STC:** STC-SA511WE  
**Propeller Model:** HC-82VK-1, HC-A2VK-1  
**Propeller T.C.:** P24EA  
**Blade Model(s):** V8433-7  
V8433N-7  
**Prop Diameter:** 76.6"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:**  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type                   | Item Number | Description                  | Quantity | Qty Per | Comments |
|-----------------------------|-------------|------------------------------|----------|---------|----------|
| BLADE                       | V8433-7     | BLADE                        | 2        | Prop    |          |
| BLADE                       | V8433N-7    | BLADE                        | 2        | Prop    |          |
| SPINNER                     | 835-30      | SPINNER ASSEMBLY             | 1        | Prop    |          |
| COUNTERWEIGHT SLUG A-619-1  |             | SLUG, COUNTERWEIGHT          | 1        | Blade   |          |
| COUNTERWEIGHT SLUG B-3840-6 |             | SCREW, 10-32, FILLISTER HEAD | 2        | Blade   |          |

**IDS No.:** 2269      **Rev.:** -      **DM Date:** 11/20/2003

**Modifier:** JOHNSTON AIRCRAFT SERVICE  
**Engine Model:** O-540-B1B5  
**Power:** 235 HP @ 2575 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:**  
**Feather/High Angle:**  
**Cwt Angle:** Positive

**Non-HPI Governor:**



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PIPER

**Model:** PA-25-260  
**Trade Name:** PAWNEE  
**Aircraft T.C./STC:** 2A8, 2A10  
**Propeller Model:** HC-C2YK-1BF  
**Propeller T.C.:** P-920  
**Blade Model(s):** F8477  
 F8477-1  
**Prop Diameter:** 84" TO 83"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 11.8 +-0.1  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:** NONE

**Hartzell Approved Items:**

| Item Type     | Item Number    | Description                  | Quantity | Qty Per | Comments                     |
|---------------|----------------|------------------------------|----------|---------|------------------------------|
| PROPELLER     | C2K00150       | HC-C2YK-1BF/F8477            | 1        | A/C     |                              |
| BLADE         | F8477          | PCP:BLADE UNIT, ALUM [1,1,1] | 2        | Prop    |                              |
| BLADE         | F8477-1        | IDS Item                     | 2        | Prop    |                              |
| GOVERNOR      | F4-4A          | GOVERNOR ASSEMBLY, F-4(-)    | 1        | A/C     | "NARROW DECK" O-540-G1A ONLY |
| MTG BOLT/STUD | A-2067         | STUD, MOUNTING, 1/2-20       | 6        | Prop    |                              |
| OVERHAUL KIT  | HC-C2YK-1BF-OH | O/H KIT                      | 1        | Prop    | For aftermarket use only     |

**IDS No.:** 784      **Rev.:** 1      **IC Date:** 07/07/2015

**Modifier:**  
**Engine Model:** O-540-G1A5  
**Power:** 260 HP @ 2700 RPM  
**Placard/Restr:**

**Notes:** Current T.C. holder is Latino American De Aviacion (LAVIA) S.A. Piper is previous T.C. holder.

**Startlock Angle:** NA  
**Feather/High Angle:** 32.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

PIPER

**Model:** PA-28  
**Trade Name:** CHEROKEE  
**Aircraft T.C./STC:** STC-SA222SW  
**Propeller Model:** HC-82VL-6F, HC-A2VL-6F  
**Propeller T.C.:** P24EA  
**Blade Model(s):** V7636D-4  
 V7636N-4  
**Prop Diameter:** 72.2"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.0 +-0.2  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type | Item Number | Description      | Quantity | Qty Per | Comments |
|-----------|-------------|------------------|----------|---------|----------|
| BLADE     | V7636D-4    | BLADE            | 2        | Prop    |          |
| BLADE     | V7636N-4    | BLADE            | 2        | Prop    |          |
| SPINNER   | 835-30      | SPINNER ASSEMBLY | 1        | Prop    |          |

**IDS No.:** 2271      **Rev.:** -      **DM Date:** 01/12/2004

**Modifier:** HUTCHINSON A/C  
**Engine Model:** O-320-A2B  
**Power:** 150 HP @ 2700 RPM  
**Placard/Restr:**

**Notes:**

**Startlock Angle:**  
**Feather/High Angle:** 26.5 +-1.5  
**Cwt Angle:**

**Non-HPI Governor:**



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PIPER

**Model:** PA-28  
**Trade Name:** CHEROKEE  
**Aircraft T.C./STC:** STC-SA222SW  
**Propeller Model:** HC-A2MVL-6F  
**Propeller T.C.:** P24EA  
**Blade Model(s):** MV7636N-4  
**Prop Diameter:** 72.2"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.0 +-0.2  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 788      **Rev.:** -      **DM Date:** 01/12/2004

**Modifier:** HUTCHINSON A/C  
**Engine Model:** O-320-A2B  
**Power:** 150 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:**  
**Feather/High Angle:** 26.5 +-1.5  
**Cwt Angle:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>       | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|--------------------------|-----------------|----------------|-----------------|
| BLADE            | MV7636N-4          | PCP:BLADE UNIT, ALUMINUM | 2               | Prop           |                 |
| SPINNER          | 835-30             | SPINNER ASSEMBLY         | 1               | Prop           |                 |

PIPER

**Model:** PA-28-140  
**Trade Name:** CHEROKEE  
**Aircraft T.C./STC:** STC-SA2052SE  
**Propeller Model:** HC-82VL-6F, HC-A2VL-6F  
**Propeller T.C.:** P24EA  
**Blade Model(s):** V8433N-12  
**Prop Diameter:** 72.2"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:**  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 2270      **Rev.:** -      **DM Date:** 11/20/2003

**Modifier:** PROPELLERS INC.  
**Engine Model:** O-320-E2A  
**Power:** 150 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:**  
**Cwt Angle:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u> | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|--------------------|-----------------|----------------|-----------------|
| BLADE            | V8433N-12          | BLADE              | 2               | Prop           |                 |

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PIPER

**Model:** PA-28-140  
**Trade Name:** CHEROKEE  
**Aircraft T.C./STC:** STC-SA2052SE  
**Propeller Model:** HC-A2MVL-6F  
**Propeller T.C.:** P24EA  
**Blade Model(s):** MV8433N-12  
**Prop Diameter:** 72.2"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:**  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>       | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|--------------------------|-----------------|----------------|-----------------|
| BLADE            | MV8433N-12         | PCP:BLADE UNIT, ALUMINUM | 2               | Prop           |                 |

**IDS No.:** 786      **Rev.:** -      **DM Date:** 05/16/1998

**Modifier:** PROPELLERS INC.  
**Engine Model:** O-320-E2A  
**Power:** 150 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:**  
**Cwt Angle:**

**Non-HPI Governor:**

PIPER

**Model:** PA-28-140, 150, 160  
**Trade Name:** CHEROKEE  
**Aircraft T.C./STC:** STC-SA793CE  
**Propeller Model:** HC-C2YK-1BF  
**Propeller T.C.:** P-920

**Blade Model(s):** F7666A-2  
**Prop Diameter:** 74"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 14.0 +-0.1  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>       | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|--------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | C2K00045           | HC-C2YK-1BF/F7666A-2     | 1               | A/C            |                          |
| BLADE            | F7666A-2           | PCP:BLADE UNIT, ALUMINUM | 2               | Prop           |                          |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20   | 6               | Prop           |                          |
| OVERHAUL KIT     | HC-C2YK-1BF-OH     | O/H KIT                  | 1               | Prop           | For aftermarket use only |

**IDS No.:** 791      **Rev.:** 1      **IC Date:** 07/07/2015

**Modifier:** ROBERT WILLIAMS (AVCON)  
**Engine Model:** O-360-A1A  
**Power:** 180 HP @ 2700 RPM  
**Placard/Restr:** Avoid continuous operation between 2000 and 2250 RPM

**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 29.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

# HARTZELL

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**PIPER**

**Model:** PA-28-180  
**Trade Name:** CHEROKEE  
**Aircraft T.C./STC:** SA2213WE  
**Propeller Model:** HC-C2YK-1BF  
**Propeller T.C.:** P-920

**Blade Model(s):** F7666A  
**Prop Diameter:** 76"

**Prop Setup:**

**Ref. Radius:** 30"  
**Reverse Angle:**  
**Low Pitch Angle:** 13.0 +/- 0.2  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number | Description                  | Quantity | Qty Per | Comments |
|---------------|-------------|------------------------------|----------|---------|----------|
| PROPELLER     | C2K00032    | HC-C2YK-1BF/F7666A           | 1        | A/C     |          |
| BLADE         | F7666A      | PCP:BLADE UNIT, ALUM [1,1,1] | 2        | Prop    |          |
| SPINNER       | 835-33      | SPINNER ASSEMBLY             | 1        | Prop    |          |
| SPINNER       | 835-33P     | SPINNER ASSEMBLY             | 1        | Prop    |          |
| MTG BOLT/STUD | A-2067      | STUD, MOUNTING, 1/2-20       | 6        | Prop    |          |

**IDS No.:** 790      **Rev.:** 1      **IC Date:** 10/01/2021

**Modifier:** Pacific Propeller International  
**Engine Model:** O-360-A1A  
**Power:** 180 HP @ 2700 RPM  
**Placard/Restr:** Avoid continuous operation between 2000 and 2250 RPM.

**Notes:**

**Startlock Angle:**  
**Feather/High Angle:** 28.0 +/- 0.5  
**Cwt Angle:**

**Non-HPI Governor:**

**PIPER**

**Model:** PA-28-201T  
**Trade Name:** TURBO DAKOTA  
**Aircraft T.C./STC:** 2A13  
**Propeller Model:** BHC-C2YF-1( )F  
**Propeller T.C.:** P-920  
**Blade Model(s):** F8459A-8R  
**Prop Diameter:** 76.0" TO 75.0"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 14.4 +/-0.2  
**Stud Protrusion** 1.120 +/-0.030

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number     | Description                  | Quantity | Qty Per | Comments                   |
|---------------|-----------------|------------------------------|----------|---------|----------------------------|
| PROPELLER     | C2F00050        | BHC-C2YF-1BF/F8459A-8R/SM4   | 1        | A/C     |                            |
| BLADE         | F8459A-8R       | PCP:BLADE UNIT, ALUM [1,1,1] | 2        | Prop    |                            |
| SPINNER       | C-3568          | SPINNER ASSEMBLY             | 1        | Prop    |                            |
| GOVERNOR      | E5              | GOVERNOR ASSEMBLY, E-5-( )   | 1        | A/C     |                            |
| SPIN MTG KIT  | A-2476-4        | SPINNER - MTG KIT            | 1        | Prop    |                            |
| MTG BOLT/STUD | A-2429-3        | STUD, MOUNTING, 1/2-20       | 6        | Prop    | 1.120 +/-0.030 STUD HEIGHT |
| OVERHAUL KIT  | BHC-C2YF-1BF-OH | O/H KIT                      | 1        | Prop    | For aftermarket use only   |

**IDS No.:** 795      **Rev.:** 1      **IC Date:** 07/07/2015

**Modifier:**  
**Engine Model:** TSIO-360-FB  
**Power:** 200 HP @ 2575 RPM  
**Placard/Restr:**

**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 29.0 +/-1.0  
**Cwt Angle:**

**Non-HPI Governor:** WOODWARD G210681

# HARTZELL

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PIPER

IDS No.: 800 Rev.: 2 IC Date: 07/07/2015

**Model:** PA-28-235  
**Trade Name:** CHEROKEE PATHFINDER  
**Aircraft T.C./STC:** 2A13  
**Propeller Model:** HC-C2YK-1( )F  
**Propeller T.C.:** P-920  
**Blade Model(s):** F8468A-4  
**Prop Diameter:** 80.0" NO CUT OFF

**Modifier:**  
**Engine Model:** O-540-B4B5  
**Power:** 235 HP @ 2575 RPM  
**Placard/Restr:**  
**Notes:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.5 +-0.2  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 27.0 +-2.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:** PIPER

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>           | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>                |
|------------------|--------------------|------------------------------|-----------------|----------------|--------------------------------|
| PROPELLER        | C2K00102           | HC-C2YK-1BF/F8468A-4         | 1               | A/C            |                                |
| BLADE            | F8468A-4           | PCP:BLADE UNIT, ALUM [1,1,1] | 2               | Prop           |                                |
| GOVERNOR         | F4-13              | GOVERNOR ASSEMBLY, F-4( )    | 1               | A/C            | Sec'ndry,wide deck "A" S/N eng |
| GOVERNOR         | F4-13Z             | GOVERNOR ASSEMBLY, F-4( )    | 1               | A/C            | Primary, wide deck "A" S/N eng |
| GOVERNOR         | F4-3A              | GOVERNOR ASSEMBLY, F-4( )    | 1               | A/C            | Sec'ndry,nar deck non "A" sufx |
| GOVERNOR         | F4-3AZ             | GOVERNOR ASSEMBLY, F-4( )    | 1               | A/C            | Primary,nar deck non "A" eng s |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20       | 6               | Prop           |                                |
| OVERHAUL KIT     | HC-C2YK-1BF-OH     | O/H KIT                      | 1               | Prop           | For aftermarket use only       |

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PIPER

IDS No.: 1697 Rev.: 3 IC Date: 07/16/2015

**Model:** PA-28-235  
**Trade Name:** CHARGER/PATHFINDER  
**Aircraft T.C./STC:** SA01190LA  
**Propeller Model:** HC-C3YR-1RF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** F7693F  
 F7693F\*2  
**Prop Diameter:** 78" TO 77"

**Modifier:** HARTZELL PROPELLER  
**Engine Model:** O-540-B2B5, B4B5  
**Power:** 235 HP @ 2575 RPM  
**Placard/Restr:**  
**Notes:**

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.0 +-0.2  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 31.0 +-1.0  
**Cwt Angle:**

### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| Item Type     | Item Number    | Description                  | Quantity | Qty Per | Comments                                    |
|---------------|----------------|------------------------------|----------|---------|---|
| PROPELLER     | C3R00047       | HC-C3YR-1RF/F7693F[*2]/SM23  | 1        | A/C     |   |
| PROPELLER     | C3R00047KD     | HC-C3YR-1RF/F7693F[*2]/SM23  | 1        | A/C     |   |
| PROPELLER     | C3R00047SKDTP  | C3R00047/SM23/C-3535-1P      | 1        | A/C     |   |
| PROPELLER     | C3R00047STP    | C3R00047/SM23/C-3535-1P      | 1        | A/C     |   |
| BLADE         | F7693F         | PCP:BLADE UNIT, ALUM [1,1,1] | 3        | Prop    | Superceded by F7693F*2 on this installation |
| BLADE         | F7693F*2       | PCP:BLADE UNIT, ALUM [6,1,1] | 3        | Prop    |   |
| SPINNER       | C-3535-1       | SPINNER ASSEMBLY             | 1        | Prop    |   |
| SPINNER       | C-3535-1P      | SPINNER ASSEMBLY             | 1        | Prop    |   |
| SPIN MTG KIT  | A-2476-23      | SPINNER - MTG KIT            | 1        | Prop    |   |
| MTG BOLT/STUD | A-2067         | STUD, MOUNTING, 1/2-20       | 6        | Prop    |   |
| OVERHAUL KIT  | HC-C3YR-1RF-OH | O/H KIT                      | 1        | Prop    | For aftermarket use only                    |

# HARTZELL

## APPLICATION GUIDE

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PIPER

IDS No.: 801      Rev.: 1      IC      Date: 07/07/2015

**Model:** PA-28-236  
**Trade Name:** DAKOTA  
**Aircraft T.C./STC:** 2A13  
**Propeller Model:** HC-F2YR-1F  
**Propeller T.C.:** P27EA  
**Blade Model(s):** F8468A-4R  
**Prop Diameter:** 80.0" TO 78.0"

**Modifier:**  
**Engine Model:** O-540-J3A5D  
**Power:** 235 HP @ 2400 RPM  
**Placard/Restr:**  
**Notes:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 16.25 +-0.25  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 32.0 +-2.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>           | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|------------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | F2R00060           | HC-F2YR-1F/F8468A-4R/SM4     | 1               | A/C            |                          |
| BLADE            | F8468A-4R          | PCP:BLADE UNIT, ALUM [1,1,1] | 2               | Prop           |                          |
| SPINNER          | C-3568             | SPINNER ASSEMBLY             | 1               | Prop           |                          |
| SPINNER          | C-3568-P           | SPINNER ASSEMBLY             | 1               | Prop           |                          |
| GOVERNOR         | F4-21              | GOVERNOR ASSEMBLY, F-4-( )   | 1               | A/C            |                          |
| SPIN MTG KIT     | A-2476-4           | SPINNER - MTG KIT            | 1               | Prop           |                          |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20       | 6               | Prop           |                          |
| OVERHAUL KIT     | HC-F2YR-1F-OH      | O/H KIT                      | 1               | Prop           | For aftermarket use only |

# HARTZELL

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PIPER

IDS No.: 1713      Rev.: 3      IC      Date: 07/16/2015

**Model:** PA-28-236  
**Trade Name:** DAKOTA  
**Aircraft T.C./STC:** SA01191LA  
**Propeller Model:** HC-F3YR-1ARF  
**Propeller T.C.:** P31EA  
**Blade Model(s):** F7693F  
F7693F\*2  
**Prop Diameter:** 78" TO 76"

**Modifier:** HARTZELL PROPELLER  
**Engine Model:** O-540-J3A5D  
**Power:** 235 HP @ 2400 RPM  
**Placard/Restr:**  
**Notes:**

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 14.3 +-0.2  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 31.0 +-1.0  
**Cwt Angle:**

### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>           | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|------------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | F3R00030           | HC-F3YR-1ARF/F7693F[*2]/SM6  | 1               | A/C            |                          |
| PROPELLER        | F3R00030KD         | HC-F3YR-1ARF/F7693F[*2]/SM6  | 1               | A/C            |                          |
| PROPELLER        | F3R00030SKDTP      | F3R00030/SM6/C-3570-P        | 1               | A/C            |                          |
| PROPELLER        | F3R00030STP        | F3R00030/SM6/C-3570-P        | 1               | A/C            |                          |
| BLADE            | F7693F             | PCP:BLADE UNIT, ALUM [1,1,1] | 3               | Prop           | Superseded by F7693F*2   |
| BLADE            | F7693F*2           | PCP:BLADE UNIT, ALUM [6,1,1] | 3               | Prop           | Supersedes F7693F        |
| SPINNER          | C-3570             | SPINNER ASSEMBLY             | 1               | Prop           |                          |
| SPINNER          | C-3570-P           | SPINNER ASSEMBLY             | 1               | Prop           |                          |
| GOVERNOR         | F4-21              | GOVERNOR ASSEMBLY, F-4-( )   | 1               | A/C            |                          |
| SPIN MTG KIT     | A-2476-6           | SPINNER - MTG KIT            | 1               | Prop           |                          |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20       | 6               | Prop           |                          |
| OVERHAUL KIT     | HC-F3YR-1ARF-OH    | O/H KIT                      | 1               | Prop           | For aftermarket use only |

# HARTZELL

## APPLICATION GUIDE

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**PIPER**

**Model:** PA-28-180  
**Trade Name:** CHEROKEE  
**Aircraft T.C./STC:** SA556SW  
**Propeller Model:** HC-C2YK-1BF  
**Propeller T.C.:** P-920

**Blade Model(s):** F7666A-2R  
**Prop Diameter:** 76

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 14.0 +-0.2  
**Stud Protrusion:** NA

**Non-HPI Items:**

**Non-HPI Spinner:**

**IDS No.:** 2722      **Rev.:** 1      **IC Date:** 07/07/2015

**Modifier:** HUTCHINSON ACFT SVC  
**Engine Model:** O-360-A1A  
**Power:** 180 HP @ 2700 RPM  
**Placard/Restr:** Avoid continuous operation between 2000 and 2250 RPM

**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 29.0 +-2.0  
**Cwt Angle:** NA

**Non-HPI Governor:** WOODWARD

**Hartzell Approved Items:**

| Item Type     | Item Number    | Description              | Quantity | Qty Per | Comments                 |
|---------------|----------------|--------------------------|----------|---------|--------------------------|
| PROPELLER     | C2K00051       | HC-C2YK-1BF/F7666A-2R    | 1        | A/C     |                          |
| BLADE         | F7666A-2R      | PCP:BLADE UNIT, ALUMINUM | 2        | Prop    |                          |
| SPINNER       | 835-33         | SPINNER ASSEMBLY         | 1        | Prop    |                          |
| SPINNER       | 835-33P        | SPINNER ASSEMBLY         | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2067         | STUD, MOUNTING, 1/2-20   | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-C2YK-1BF-OH | O/H KIT                  | 1        | Prop    | For aftermarket use only |

**PIPER**

**Model:** PA-28R-180  
**Trade Name:** ARROW  
**Aircraft T.C./STC:** 2A13  
**Propeller Model:** HC-C2YK-1( )(F)  
**Propeller T.C.:** P-920

**Blade Model(s):** F7666A  
**Prop Diameter:** 76.0" TO 74.5"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.0 +-0.2  
**Stud Protrusion:**

**Non-HPI Items:**

**Non-HPI Spinner:** PIPER

**IDS No.:** 789      **Rev.:** 1      **IC Date:** 07/07/2015

**Modifier:**  
**Engine Model:** IO-360-B1E  
**Power:** 180 HP @ 2700 RPM  
**Placard/Restr:** Avoid continuous operation between 2000-2200 RPM

**Notes:** (OEM Ring Gear Mounted Spinner - No SMK)

**Startlock Angle:** NA  
**Feather/High Angle:** 29.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type     | Item Number    | Description                  | Quantity | Qty Per | Comments                 |
|---------------|----------------|------------------------------|----------|---------|--------------------------|
| PROPELLER     | C2K00041       | HC-C2YK-1BF/F7666A           | 1        | A/C     |                          |
| BLADE         | F7666A         | PCP:BLADE UNIT, ALUM [1,1,1] | 2        | Prop    |                          |
| GOVERNOR      | F2-2A          | GOVERNOR ASSEMBLY, F-2-( )   | 1        | A/C     |                          |
| GOVERNOR      | F2-7A          | GOVERNOR ASSEMBLY, F-2-( )   | 1        | A/C     |                          |
| GOVERNOR      | F2-7AZ         | GOVERNOR ASSEMBLY, F-2-( )   | 1        | A/C     |                          |
| MTG BOLT/STUD | A-2067         | STUD, MOUNTING, 1/2-20       | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-C2YK-1BF-OH | O/H KIT                      | 1        | Prop    | For aftermarket use only |



# HARTZELL

## APPLICATION GUIDE

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PIPER

**Model:** PA-28R-180  
**Trade Name:** ARROW  
**Aircraft T.C./STC:** STC-SA4528NM  
**Propeller Model:** HC-C3YR-1RF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** F7282  
**Prop Diameter:** 74.0" TO 73.0"

**IDS No.:** 1395      **Rev.:** 3      **IC Date:** 01/20/2015

**Modifier:** HARTZELL PROPELLER  
**Engine Model:** IO-360-B1E  
**Power:** 180 HP @ 2700 RPM  
**Placard/Restr:** Refer to STC and 8110-3 form  
**Notes:** 835-52P Spinner Assembly no longer supplied with STC-SA4528NM kit as of 7/21/2010

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 11.8 +-0.2  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 30.0 +-0.5  
**Cwt Angle:**

### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>          | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>                                    |
|------------------|--------------------|-----------------------------|-----------------|----------------|--|
| PROPELLER        | C3R00021SKDTP*2    | C3R00021/835-47P            | 1               | A/C            |  |
| PROPELLER        | C3R00021STP*2      | C3R00021/835-47P            | 1               | A/C            |  |
| BLADE            | F7282              | PCP:BLADE UNIT, ALUMINUM    | 3               | Prop           |  |
| SPINNER          | 103629             | SPINNER ASSEMBLY, COMPOSITE | 1               | Prop           |  |
| SPINNER          | 103629F1           | SPINNER ASSEMBLY, COMPOSITE | 1               | Prop           |  |
| SPINNER          | 103629F2           | SPINNER ASSEMBLY, COMPOSITE | 1               | Prop           |  |
| SPINNER          | 835-47             | SPINNER ASSEMBLY            | 1               | Prop           |  |
| SPINNER          | 835-47P            | SPINNER ASSEMBLY            | 1               | Prop           |  |
| SPINNER          | 835-52P            | SPINNER ASSEMBLY            | 1               | Prop           | No longer supplied with Top Prop kit as of 7/21/10 |
| GOVERNOR         | F2-7A              | GOVERNOR ASSEMBLY, F-2-( )  | 1               | A/C            |  |
| GOVERNOR         | F2-7AZ             | GOVERNOR ASSEMBLY, F-2-( )  | 1               | A/C            |  |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20      | 6               | Prop           |  |

# HARTZELL

## APPLICATION GUIDE

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PIPER

IDS No.: 792 Rev.: 1 IC Date: 07/07/2015

**Model:** PA-28R-200  
**Trade Name:** ARROW II  
**Aircraft T.C./STC:** 2A13  
**Propeller Model:** HC-C2YK-1() (F)  
**Propeller T.C.:** P-920

**Modifier:**  
**Engine Model:** IO-360-C1C  
**Power:** 200 HP @ 2700 RPM  
**Placard/Restr:** Avoid continuous operation between 2000 and 2350 RPM.

**Blade Model(s):** F7666A-2  
**Prop Diameter:** 74.0" TO 72.5"

**Notes:**

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 14.0 +-0.2  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 29.0 +-2.0  
**Cwt Angle:**

### Non-HPI Items:

**Non-HPI Spinner:** PIPER

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>        | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|---------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | C2K00047           | HC-C2YK-1BF/F7666A-2      | 1               | A/C            |                          |
| BLADE            | F7666A-2           | PCP:BLADE UNIT, ALUMINUM  | 2               | Prop           |                          |
| GOVERNOR         | F2-7A              | GOVERNOR ASSEMBLY, F-2-() | 1               | A/C            |                          |
| GOVERNOR         | F2-7AZ             | GOVERNOR ASSEMBLY, F-2-() | 1               | A/C            |                          |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20    | 6               | Prop           |                          |
| OVERHAUL KIT     | HC-C2YK-1BF-OH     | O/H KIT                   | 1               | Prop           | For aftermarket use only |

# HARTZELL

## APPLICATION GUIDE

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PIPER

IDS No.: 793 Rev.: 4 IC Date: 07/16/2015

**Model:** PA-28R-200,-201, PA-28RT-201

**Trade Name:** ARROW II, III, IV

**Aircraft T.C./STC:** STC-SA4528NM

**Propeller Model:** HC-C3YR-1RF

**Propeller T.C.:** P25EA

**Blade Model(s):** F7282  
F7282\*1

**Prop Diameter:** 74.0" TO 73.0"

### Prop Setup:

**Ref. Radius:** 30

**Reverse Angle:** NA

**Low Pitch Angle:** 12.5 +-0.1

**Stud Protrusion**

**Modifier:** HARTZELL PROPELLER

**Engine Model:** IO-360-C1C(6)

**Power:** 200 HP @ 2700 RPM

**Placard/Restr:** Refer to STC and 8110-3 form

**Notes:** 835-52P Spinner Assembly no longer supplied with STC-SA4528NM kit as of 7/21/2010

**Startlock Angle:** NA

**Feather/High Angle:** 30.0 +-0.5

**Cwt Angle:**

### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>          | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>                                    |
|------------------|--------------------|-----------------------------|-----------------|----------------|--|
| PROPELLER        | C3R00022           | HC-C3YR-1RF/F7282           | 1               | A/C            |  |
| PROPELLER        | C3R00022KD         | HC-C3YR-1RF/F7282           | 1               | A/C            |  |
| PROPELLER        | C3R00022SKDTP*1    | C3R00022/835-47P            | 1               | A/C            |  |
| PROPELLER        | C3R00022STP*1      | C3R00022/835-47P            | 1               | A/C            |  |
| BLADE            | F7282              | PCP:BLADE UNIT, ALUMINUM    | 3               | Prop           |  |
| BLADE            | F7282*1            | IDS Item                    | 3               | Prop           |  |
| SPINNER          | 103629             | SPINNER ASSEMBLY, COMPOSITE | 1               | Prop           |  |
| SPINNER          | 103629F1           | SPINNER ASSEMBLY, COMPOSITE | 1               | Prop           |  |
| SPINNER          | 103629F2           | SPINNER ASSEMBLY, COMPOSITE | 1               | Prop           |  |
| SPINNER          | 835-47             | SPINNER ASSEMBLY            | 1               | Prop           |  |
| SPINNER          | 835-47P            | SPINNER ASSEMBLY            | 1               | Prop           |  |
| SPINNER          | 835-52P            | SPINNER ASSEMBLY            | 1               | Prop           | No longer supplied with Top Prop kit as of 7/21/10 |
| GOVERNOR         | F2-7A              | GOVERNOR ASSEMBLY, F-2-( )  | 1               | A/C            |  |
| GOVERNOR         | F2-7AZ             | GOVERNOR ASSEMBLY, F-2-( )  | 1               | A/C            |  |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20      | 6               | Prop           |  |
| OVERHAUL KIT     | HC-C3YR-1RF-OH     | O/H KIT                     | 1               | Prop           | For aftermarket use only                           |

# HARTZELL

## APPLICATION GUIDE

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**PIPER**

**Model:** PA-28R-201T  
**Trade Name:** TURBO ARROW III  
**Aircraft T.C./STC:** 2A13  
**Propeller Model:** BHC-C2YF-1BF  
**Propeller T.C.:** P-920

**IDS No.:** 797      **Rev.:** 1      **IC Date:** 07/07/2015

**Modifier:**  
**Engine Model:** TSIO-360-F, -FB  
**Power:** 200 HP @ 2575 RPM  
**Placard/Restr:** Avoid continuous operation between 2000-2200 RPM with engine manifold pressure above 32" Hg. Avoid continuous ground operation in cross and tail winds of over 10 knots between 1700 and 2100 RPM.

**Blade Model(s):** F8459A-8R  
**Prop Diameter:** 76.0" TO 75.0"

**Notes:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 14.4 +-0.2  
**Stud Protrusion:** 1.120 +-0.030

**Startlock Angle:** NA  
**Feather/High Angle:** 29.0 +-1.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type     | Item Number     | Description                  | Quantity | Qty Per | Comments                 |
|---------------|-----------------|------------------------------|----------|---------|--------------------------|
| PROPELLER     | C2F00050        | BHC-C2YF-1BF/F8459A-8R/SM4   | 1        | A/C     |                          |
| BLADE         | F8459A-8R       | PCP:BLADE UNIT, ALUM [1,1,1] | 2        | Prop    |                          |
| SPINNER       | C-3568          | SPINNER ASSEMBLY             | 1        | Prop    |                          |
| GOVERNOR      | E5              | GOVERNOR ASSEMBLY, E-5-( )   | 1        | A/C     |                          |
| SPIN MTG KIT  | A-2476-4        | SPINNER - MTG KIT            | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2429-3        | STUD, MOUNTING, 1/2-20       | 6        | Prop    |                          |
| OVERHAUL KIT  | BHC-C2YF-1BF-OH | O/H KIT                      | 1        | Prop    | For aftermarket use only |

**PIPER**

**Model:** PA-28R-201  
**Trade Name:** ARROW III  
**Aircraft T.C./STC:** 2A13  
**Propeller Model:** HC-C2YK-1BF  
**Propeller T.C.:** P-920  
**Blade Model(s):** F7666A-2R  
**Prop Diameter:** 74" TO 72"

**IDS No.:** 794      **Rev.:** 1      **IC Date:** 07/07/2015

**Modifier:**  
**Engine Model:** IO-360-C1C6  
**Power:** 200 HP @ 2700 RPM  
**Placard/Restr:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 14.0 +-0.2  
**Stud Protrusion:**

**Startlock Angle:** NA  
**Feather/High Angle:** 29.0 +-2.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:** PIPER

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type     | Item Number    | Description              | Quantity | Qty Per | Comments                 |
|---------------|----------------|--------------------------|----------|---------|--------------------------|
| PROPELLER     | C2K00051       | HC-C2YK-1BF/F7666A-2R    | 1        | A/C     |                          |
| BLADE         | F7666A-2R      | PCP:BLADE UNIT, ALUMINUM | 2        | Prop    |                          |
| GOVERNOR      | F2-7           | IDS Item                 | 1        | A/C     |                          |
| MTG BOLT/STUD | A-2067         | STUD, MOUNTING, 1/2-20   | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-C2YK-1BF-OH | O/H KIT                  | 1        | Prop    | For aftermarket use only |

# HARTZELL

## APPLICATION GUIDE

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PIPER

IDS No.: 1507 Rev.: 3 IC Date: 07/16/2015

**Model:** PA-28R(T)-201T  
**Trade Name:** TURBO ARROW III (IV)  
**Aircraft T.C./STC:** SA01024CH  
**Propeller Model:** PHC-C3YF-1RF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** F7663-4T  
 F7663-4T\*1  
**Prop Diameter:** 74.0" TO 72.0"

**Modifier:** HARTZELL PROPELLER  
**Engine Model:** TSIO-360-F,FB  
**Power:** 200 HP @ 2575 RPM  
**Placard/Restr:**  
**Notes:** Top Prop

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.2 +-0.2  
**Stud Protrusion** 1.120 +-0.030

**Startlock Angle:** NA  
**Feather/High Angle:** 33.0 +-1.0  
**Cwt Angle:**

### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:** Woodward

### Hartzell Approved Items:

| Item Type     | Item Number     | Description                | Quantity | Qty Per | Comments                                   |
|---------------|-----------------|----------------------------|----------|---------|--|
| PROPELLER     | C3F00111        | PHC-C3YF-1RF/F7663-4T/SM7  | 1        | A/C     |  |
| PROPELLER     | C3F00111KD      | PHC-C3YF-1RF/F7663-4T/SM7  | 1        | A/C     |  |
| PROPELLER     | C3F00111SKDTP   | C3F00111/SM7/C-3570-P      | 1        | A/C     |  |
| PROPELLER     | C3F00111STP     | C3F00111/SM7/C-3570-P      | 1        | A/C     |  |
| BLADE         | F7663-4T        | PCP:BLADE UNIT, ALUMINUM   | 3        | Prop    |  |
| BLADE         | F7663-4T*1      | IDS Item                   | 3        | Prop    |  |
| SPINNER       | C-3570          | SPINNER ASSEMBLY           | 1        | Prop    |  |
| SPINNER       | C-3570-P        | SPINNER ASSEMBLY           | 1        | Prop    |  |
| GOVERNOR      | E5              | GOVERNOR ASSEMBLY, E-5-( ) | 1        | A/C     |  |
| SPIN MTG KIT  | A-2476-7        | SPINNER - MTG KIT          | 1        | Prop    |  |
| MTG BOLT/STUD | A-2429-3        | STUD, MOUNTING, 1/2-20     | 6        | Prop    | Use w/E-7154-2R Hub Only                   |
| MTG BOLT/STUD | A-2429-6        | STUD, MOUNTING, 1/2-20     | 6        | Prop    | Use with E-7154-12R & E-7154-42R hubs only |
| OVERHAUL KIT  | PHC-C3YF-1RF*1  | O/H KIT W/O SLIMSERTS      | 1        | Prop    | For aftermarket use only                   |
| OVERHAUL KIT  | PHC-C3YF-1RF-OH | O/H KIT                    | 1        | Prop    | For aftermarket use only                   |

# HARTZELL

## APPLICATION GUIDE

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PIPER

IDS No.: 2751      Rev.: 3      IC      Date: 07/29/2021

**Model:** PA-28R-180  
**Trade Name:** ARROW  
**Aircraft T.C./STC:** SA02555CH  
**Propeller Model:** HC-C2YR-1BFP  
**Propeller T.C.:** P-920  
**Blade Model(s):** F7497\*1  
**Prop Diameter:** 74" to 72.5"

**Modifier:** PROFESSIONAL PILOT  
**Engine Model:** IO-360-B1E  
**Power:** 180 HP @ 2700 RPM  
**Placard/Restr:** None  
**Notes:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.0 +/- 0.2  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 29.0 +/- 2.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>             | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|--------------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | C2R10720           | HC-C2YR-1BFP/F7497[*1]         | 1               | A/C            |                          |
| BLADE            | F7497*1            | PCP:BLADE UNIT, ALUM [6,16,11] | 2               | Prop           |                          |
| SPINNER          | 103585             | SPINNER ASSEMBLY, COMPOSITE    | 1               | Prop           | Primed for Paint         |
| SPINNER          | 103585F1           | SPINNER ASSEMBLY, COMPOSITE    | 1               | Prop           | Matterhorn White         |
| SPINNER          | 835-33             | SPINNER ASSEMBLY               | 1               | Prop           |                          |
| SPINNER          | 835-33P            | SPINNER ASSEMBLY               | 1               | Prop           |                          |
| SPINNER          | 835-54             | SPINNER ASSEMBLY, "CNC"        | 1               | Prop           |                          |
| SPINNER          | 835-54P            | SPINNER ASSEMBLY, "CNC"        | 1               | Prop           |                          |
| GOVERNOR         | S-1-24             | GOVERNOR ASSEMBLY, S-1-24      | 1               | A/C            |                          |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20         | 6               | Prop           |                          |
| OVERHAUL KIT     | HC-C2YR-1BF-OH     | O/H KIT                        | 1               | Prop           | For aftermarket use only |

# HARTZELL

## APPLICATION GUIDE

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PIPER

**Model:** PA-28R-200  
**Trade Name:** ARROW  
**Aircraft T.C./STC:** SA02555CH  
**Propeller Model:** HC-C2YR-1BFP  
**Propeller T.C.:** P-920

**IDS No.:** 2776      **Rev.:** 4      **IC Date:** 07/29/2021

**Modifier:** PROFESSIONAL PILOTS  
**Engine Model:** IO-360-C1C(6)  
**Power:** 200 HP @ 2700 RPM  
**Placard/Restr:** Continuous operation is prohibited above 24" manifold pressure between 2350 and 2550 RPM when installed on Lycoming IO-360-C1C

**Blade Model(s):** F7497\*1  
**Prop Diameter:** 74" to 72"

**Notes:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 14.0 +/- 0.2  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 29.0 +/- 2.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>             | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|--------------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | C2R10709           | HC-C2YR-1BFP/F7497[*1]         | 1               | A/C            |                          |
| BLADE            | F7497*1            | PCP:BLADE UNIT, ALUM [6,16,11] | 2               | Prop           |                          |
| SPINNER          | 103585             | SPINNER ASSEMBLY, COMPOSITE    | 1               | Prop           | Primed for Paint         |
| SPINNER          | 103585F1           | SPINNER ASSEMBLY, COMPOSITE    | 1               | Prop           | Matterhorn White         |
| SPINNER          | 835-33             | SPINNER ASSEMBLY               | 1               | Prop           |                          |
| SPINNER          | 835-33P            | SPINNER ASSEMBLY               | 1               | Prop           |                          |
| SPINNER          | 835-54             | SPINNER ASSEMBLY, "CNC"        | 1               | Prop           |                          |
| SPINNER          | 835-54P            | SPINNER ASSEMBLY, "CNC"        | 1               | Prop           |                          |
| GOVERNOR         | S-1-24             | GOVERNOR ASSEMBLY, S-1-24      | 1               | A/C            |                          |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20         | 6               | Prop           |                          |
| OVERHAUL KIT     | HC-C2YR-1BF-OH     | O/H KIT                        | 1               | Prop           | For aftermarket use only |

# HARTZELL

## APPLICATION GUIDE

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PIPER

IDS No.: 798      Rev.: 1      IC      Date: 07/07/2015

**Model:** PA-28RT-201T  
**Trade Name:** TURBO ARROW IV  
**Aircraft T.C./STC:** 2A13  
**Propeller Model:** BHC-C2YF-1( )F  
**Propeller T.C.:** P-920  
**Blade Model(s):** F8459A-8R  
**Prop Diameter:** 76.0" TO 75.0"

**Modifier:**  
**Engine Model:** TSIO-360-FB  
**Power:** 200 HP @ 2575 RPM  
**Placard/Restr:**  
**Notes:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 14.4 +-0.2  
**Stud Protrusion** 1.120 +-0.030

**Startlock Angle:** NA  
**Feather/High Angle:** 29.0 +-1.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>           | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|------------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | C2F00051           | BHC-C2YF-1BF/F8459A-8R       | 1               | A/C            |                          |
| BLADE            | F8459A-8R          | PCP:BLADE UNIT, ALUM [1,1,1] | 2               | Prop           |                          |
| SPINNER          | C-2298-2           | IDS Item                     | 1               | Prop           | Hz                       |
| SPINNER          | C-3568             | SPINNER ASSEMBLY             | 1               | Prop           | tc                       |
| GOVERNOR         | E5                 | GOVERNOR ASSEMBLY, E-5-( )   | 1               | A/C            |                          |
| MTG BOLT/STUD    | A-2429-3           | STUD, MOUNTING, 1/2-20       | 6               | Prop           |                          |
| OVERHAUL KIT     | BHC-C2YF-1BF-OH    | O/H KIT                      | 1               | Prop           | For aftermarket use only |



# HARTZELL

## APPLICATION GUIDE 159

**PIPER**

**Model:** PA-28RT-201T  
**Trade Name:** TURBO ARROW IV  
**Aircraft T.C./STC:** 2A13  
**Propeller Model:** PHC-C3YF-1( )F  
**Propeller T.C.:** P25EA  
**Blade Model(s):** F7663-2R  
**Prop Diameter:** 76.0" TO 72.0"

**IDS No.:** 799      **Rev.:** 2      **IC Date:** 07/16/2015

**Modifier:**  
**Engine Model:** TSIO-360-FB  
**Power:** 200 HP @ 2575 RPM  
**Placard/Restr:**  
**Notes:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.2 +-0.2  
**Stud Protrusion** 1.120 +-0.030

**Startlock Angle:** NA  
**Feather/High Angle:** 33.0 +-1.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>         | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>                            |
|------------------|--------------------|----------------------------|-----------------|----------------|--|
| PROPELLER        | C3F00110           | PHC-C3YF-1RF/F7663-2R/SM7  | 1               | A/C            |  |
| PROPELLER        | C3F00110KD         | PHC-C3YF-1RF/F7663-2R/SM7  | 1               | A/C            |  |
| BLADE            | F7663-2R           | PCP:BLADE UNIT, ALUMINUM   | 3               | Prop           |  |
| SPINNER          | C-3570             | SPINNER ASSEMBLY           | 1               | Prop           |  |
| GOVERNOR         | E5                 | GOVERNOR ASSEMBLY, E-5-( ) | 1               | A/C            |  |
| SPIN MTG KIT     | A-2476-7           | SPINNER - MTG KIT          | 1               | Prop           |  |
| MTG BOLT/STUD    | A-2429-3           | STUD, MOUNTING, 1/2-20     | 6               | Prop           | Use w/E-7154-2R Hub Only                   |
| MTG BOLT/STUD    | A-2429-6           | STUD, MOUNTING, 1/2-20     | 6               | Prop           | Use with E-7154-12R & E-7154-42R hubs only |
| OVERHAUL KIT     | PHC-C3YF-1RF*1     | O/H KIT W/O SLIMSERTS      | 1               | Prop           | For aftermarket use only                   |
| OVERHAUL KIT     | PHC-C3YF-1RF-OH    | O/H KIT                    | 1               | Prop           | For aftermarket use only                   |

**PIPER**

**Model:** PA-28RT-201  
**Trade Name:** ARROW IV  
**Aircraft T.C./STC:** 2A13  
**Propeller Model:** HC-C2YK-1( )F  
**Propeller T.C.:** P-920  
**Blade Model(s):** F7666A-2R  
**Prop Diameter:** 74.0" TO 72.0"

**IDS No.:** 796      **Rev.:** -      **DM Date:** 03/22/1995

**Modifier:**  
**Engine Model:** IO-360-C1C6  
**Power:** 200 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:** SN 28R-7918001 to28R-7918267

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 14.0 +-0.2  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 29.0 +-2.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:** PIPER

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>         | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|----------------------------|-----------------|----------------|-----------------|
| BLADE            | F7666A-2R          | PCP:BLADE UNIT, ALUMINUM   | 2               | Prop           |                 |
| GOVERNOR         | F2-7A              | GOVERNOR ASSEMBLY, F-2-( ) | 1               | A/C            |                 |
| GOVERNOR         | F2-7AZ             | GOVERNOR ASSEMBLY, F-2-( ) | 1               | A/C            |                 |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20     | 6               | Prop           |                 |

# HARTZELL

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**PIPER**

**Model:** PA-30  
**Trade Name:** TWIN COMANCHE  
**Aircraft T.C./STC:** A1EA  
**Propeller Model:** HC-E2YL-2,-2A,-2B(S)(F),-2C,-2D  
**Propeller T.C.:** P9EA  
**Blade Model(s):** F7663-4  
**Prop Diameter:** 72" TO 70"

**IDS No.:** 802      **Rev.:** 1      **IC Date:** 07/07/2015

**Modifier:**  
**Engine Model:** IO-320-B1A  
**Power:** 160 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.0 +-0.2  
**Stud Protrusion**

**Startlock Angle:** 17.5 +-1.5  
**Feather/High Angle:** 78.0 +-0.5  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:** PIPER

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type     | Item Number     | Description                    | Quantity | Qty Per | Comments                 |
|---------------|-----------------|--------------------------------|----------|---------|--------------------------|
| PROPELLER     | E2L00083        | HC-E2YL-2BSF/F7663-4/SM8       | 2        | A/C     |                          |
| BLADE         | F7663-4         | PCP:BLADE UNIT, ALUMINUM       | 2        | Prop    |                          |
| GOVERNOR      | F6-3A           | GOVERNOR ASSEMBLY, F-6- ( )    | 2        | A/C     |                          |
| SPIN MTG KIT  | A-2476-8        | SPINNER - MTG KIT              | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2247-1        | STUD, MOUNTING,7/16-20,DRILLED | 2        | Prop    |                          |
| MTG BOLT/STUD | B-6489-25       | BOLT,7/16-20,HEX HEAD          | 4        | Prop    |                          |
| OVERHAUL KIT  | HC-E2YL-2BSF-OH | O/H KIT                        | 1        | Prop    | For aftermarket use only |

**PIPER**

**Model:** PA-30 C/R (left side)  
**Trade Name:** TWIN COMANCHE  
**Aircraft T.C./STC:** A1EA  
**Propeller Model:** HC-E2YL-2(B, BS)(F)  
**Propeller T.C.:** P9EA  
**Blade Model(s):** F7663-4  
**Prop Diameter:** 72"

**IDS No.:** 803      **Rev.:** -      **DM Date:** 12/19/2005

**Modifier:**  
**Engine Model:** IO-320-B1A  
**Power:** 160 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:** A1EA contains invalid prop models

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.0 +-0.2  
**Stud Protrusion**

**Startlock Angle:** 17.5 +-1.5  
**Feather/High Angle:** 78.0+-0.5  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:** PIPER

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type     | Item Number | Description                    | Quantity | Qty Per | Comments |
|---------------|-------------|--------------------------------|----------|---------|----------|
| BLADE         | F7663-4     | PCP:BLADE UNIT, ALUMINUM       | 2        | Prop    |          |
| GOVERNOR      | F6          | IDS Item                       | 1        | A/C     |          |
| GOVERNOR      | F6-3A       | GOVERNOR ASSEMBLY, F-6- ( )    | 1        | A/C     |          |
| GOVERNOR      | F6-3S       | IDS Item                       | 1        | A/C     |          |
| MTG BOLT/STUD | A-2247-1    | STUD, MOUNTING,7/16-20,DRILLED | 2        | Prop    |          |
| MTG BOLT/STUD | B-6489-25   | BOLT,7/16-20,HEX HEAD          | 4        | Prop    |          |

# HARTZELL

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PIPER

**Model:** PA-30 C/R (right side)  
**Trade Name:** TWIN COMANCHE  
**Aircraft T.C./STC:** A1EA  
**Propeller Model:** HC-E2YL-2(BL, BLS)(F)  
**Propeller T.C.:** P9EA  
**Blade Model(s):** FJ7663-4  
**Prop Diameter:** 72"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.0 +-0.2  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:** PIPER

**IDS No.:** 1773      **Rev.:** -      **DM Date:** 12/19/2005

**Modifier:**  
**Engine Model:** LIO-320-B1A  
**Power:** 160 HP @ 2700 RPM  
**Placard/Restr:**

**Notes:** A1EA contains invalid prop models. Refer to Piper S.L. 552 for optional C/R kit

**Startlock Angle:** 17.5 +-1.5  
**Feather/High Angle:** 78.0 +-0.5  
**Cwt Angle:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| Item Type     | Item Number | Description                    | Quantity | Qty Per | Comments |
|---------------|-------------|--------------------------------|----------|---------|----------|
| BLADE         | FJ7663-4    | PCP:BLADE UNIT, ALUMINUM       | 2        | Prop    |          |
| GOVERNOR      | F6-3AL      | GOVERNOR ASSEMBLY, F-6-( )     | 1        | Prop    |          |
| MTG BOLT/STUD | A-2247-1    | STUD, MOUNTING,7/16-20,DRILLED | 2        | Prop    |          |
| MTG BOLT/STUD | B-6489-25   | BOLT,7/16-20,HEX HEAD          | 4        | Prop    |          |

PIPER

**Model:** PA-30  
**Trade Name:** TWIN COMANCHE  
**Aircraft T.C./STC:** STC-SA214CH  
**Propeller Model:** HC-E2YL-2BSF  
**Propeller T.C.:** P9EA  
**Blade Model(s):** F7663D-4  
**Prop Diameter:** 72"-70"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.0 +-0.2  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 1211      **Rev.:** 2      **IC Date:** 05/13/2021

**Modifier:** KNOTS 2 U INC.  
**Engine Model:** IO-320-B1A  
**Power:** 160 HP @ 2700 RPM  
**Placard/Restr:**

**Notes:**

**Startlock Angle:** 17.5 +-1.5  
**Feather/High Angle:** 78.0 +-0.5  
**Cwt Angle:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| Item Type     | Item Number     | Description                    | Quantity | Qty Per | Comments                 |
|---------------|-----------------|--------------------------------|----------|---------|--------------------------|
| PROPELLER     | E2L00090        | HC-E2YL-2BSF/F7663D-4/SM8      | 2        | A/C     |                          |
| BLADE         | F7663D-4        | PCP:BLADE UNIT, ALUMINUM       | 2        | Prop    |                          |
| SPINNER       | D-5749-P        | SPINNER ASSEMBLY               | 1        | Prop    |                          |
| SPIN MTG KIT  | A-2476-8        | SPINNER - MTG KIT              | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2247-1        | STUD, MOUNTING,7/16-20,DRILLED | 2        | Prop    |                          |
| MTG BOLT/STUD | B-6489-25       | BOLT,7/16-20,HEX HEAD          | 4        | Prop    |                          |
| OVERHAUL KIT  | HC-E2YL-2BSF-OH | O/H KIT                        | 1        | Prop    | For aftermarket use only |

# HARTZELL

## APPLICATION GUIDE

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PIPER

IDS No.: 805      Rev.: 2      IC      Date: 07/07/2015

**Model:** PA-30, PA39 (LEFT SIDE)  
**Trade Name:** TWIN COMANCHE  
**Aircraft T.C./STC:** STC-SA557GL  
**Propeller Model:** HC-E2YL-2BSF  
**Propeller T.C.:** P9EA  
**Blade Model(s):** F7663-6Q  
    F7663-6Q\*1  
**Prop Diameter:** 70"

**Modifier:** HARTZELL PROPELLER  
**Engine Model:** IO-320-(B,C)1A  
**Power:** 160 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.0 +-0.1  
**Stud Protrusion**

**Startlock Angle:** 17.5 +-1.5  
**Feather/High Angle:** 78.0 +-1.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>             | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|--------------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | E2L00095           | HC-E2YL-2BSF/F7663-6Q/SM8      | 1               | A/C            |                          |
| PROPELLER        | E2L00095STP        | E2L00095/SM8/D-5749-P/TWIN     | 1               | A/C            |                          |
| PROPELLER        | E2L00095STP*1      | E2L00095/SM8/D-5749-P          | 1               | A/C            |                          |
| BLADE            | F7663-6Q           | PCP:BLADE UNIT, ALUMINUM       | 2               | Prop           |                          |
| BLADE            | F7663-6Q*1         | IDS Item                       | 2               | Prop           |                          |
| SPINNER          | D-5749             | SPINNER ASSEMBLY               | 1               | Prop           |                          |
| SPINNER          | D-5749-P           | SPINNER ASSEMBLY               | 1               | Prop           |                          |
| GOVERNOR         | F6                 | IDS Item                       | 1               | A/C            | Left                     |
| GOVERNOR         | F6-3A              | GOVERNOR ASSEMBLY, F-6-( )     | 1               | A/C            | Left                     |
| GOVERNOR         | F6-3S              | IDS Item                       | 1               | A/C            | Left                     |
| SPIN MTG KIT     | A-2476-8           | SPINNER - MTG KIT              | 1               | Prop           |                          |
| MTG BOLT/STUD    | A-2247-1           | STUD, MOUNTING,7/16-20,DRILLED | 2               | Prop           |                          |
| MTG BOLT/STUD    | B-6489-25          | BOLT,7/16-20,HEX HEAD          | 4               | Prop           |                          |
| OVERHAUL KIT     | HC-E2YL-2BSF-OH    | O/H KIT                        | 1               | Prop           | For aftermarket use only |

# HARTZELL

## APPLICATION GUIDE

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PIPER

IDS No.: 2538 Rev.: 2 IC Date: 07/07/2015

**Model:** PA-30, PA-39 (RIGHT SIDE)

**Trade Name:** TWIN COMANCHE

**Aircraft T.C./STC:** STC-SA557GL

**Propeller Model:** HC-E2YL-2BLSF

**Propeller T.C.:** P9EA

**Blade Model(s):** FJ7663-6Q  
FJ7663-6Q\*1

**Prop Diameter:** 70"

**Prop Setup:**

**Ref. Radius:** 30

**Reverse Angle:** NA

**Low Pitch Angle:** 12.0 +-0.1

**Stud Protrusion**

**Modifier:** HARTZELL PROPELLER

**Engine Model:** LIO-320-(B,C)1A

**Power:** 160 HP @ 2700 RPM

**Placard/Restr:**

**Notes:**

**Startlock Angle:** 17.5 +-1.5

**Feather/High Angle:** 78.0 +-1.0

**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>             | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|--------------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | E2L00061           | HC-E2YL-2BLSF/FJ7663-6Q/SM8    | 1               | A/C            |                          |
| PROPELLER        | E2L00061STP        | E2L00061/SM8/D-5749-LP         | 1               | A/C            |                          |
| BLADE            | FJ7663-6Q          | PCP:BLADE UNIT, ALUMINUM       | 2               | Prop           |                          |
| BLADE            | FJ7663-6Q*1        | IDS ITEM, BLADE, [3,1,1]       | 2               | Prop           |                          |
| SPINNER          | D-5749-L           | SPINNER ASSEMBLY               | 1               | Prop           |                          |
| SPINNER          | D-5749-LP          | SPINNER ASSEMBLY               | 1               | Prop           |                          |
| GOVERNOR         | F6-3AL             | GOVERNOR ASSEMBLY, F-6-( )     | 1               | Prop           |                          |
| SPIN MTG KIT     | A-2476-8           | SPINNER - MTG KIT              | 1               | Prop           |                          |
| MTG BOLT/STUD    | A-2247-1           | STUD, MOUNTING,7/16-20,DRILLED | 2               | Prop           |                          |
| MTG BOLT/STUD    | B-6489-25          | BOLT,7/16-20,HEX HEAD          | 4               | Prop           |                          |
| OVERHAUL KIT     | HC-E2YL-2BLSF      | O/H KIT                        | 1               | Prop           | For aftermarket use only |

# HARTZELL

## APPLICATION GUIDE

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**PIPER**

**Model:** PA-30  
**Trade Name:** TWIN COMANCHE  
**Aircraft T.C./STC:** STC-SA1151SW  
**Propeller Model:** HC-C2YK-2CUF  
**Propeller T.C.:** P-920  
**Blade Model(s):** FC7666A-4\*1  
**Prop Diameter:** 72" TO 70"

**IDS No.:** 804      **Rev.:** 1      **IC Date:** 07/07/2015

**Modifier:** J.W. MILLER  
**Engine Model:** IO-360-C1C, -C1F  
**Power:** 200 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 15.0 +-0.1  
**Stud Protrusion**

**Startlock Angle:** 20.5 +-1.5  
**Feather/High Angle:** 80.5 +-1.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type     | Item Number     | Description                   | Quantity | Qty Per | Comments                 |
|---------------|-----------------|-------------------------------|----------|---------|--------------------------|
| PROPELLER     | C2K00479        | HC-C2YK-2CUF/FC7666A-4[*1]    | 2        | A/C     |                          |
| BLADE         | FC7666A-4*1     | PCP:BLADE UNIT, B-3202H-4 CWT | 2        | Prop    |                          |
| SPINNER       | 836-29          | SPINNER ASSEMBLY              | 1        | Prop    |                          |
| GOVERNOR      | F6-3A           | GOVERNOR ASSEMBLY, F-6-()     | 2        | A/C     |                          |
| COUNTERWEIGHT | B-3202H-4       | PCP:COUNTERWEIGHT             | 1        | Blade   | Blade Component          |
| MTG BOLT/STUD | A-2067          | STUD, MOUNTING, 1/2-20        | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-C2YK-2CUF-OH | O/H KIT                       | 1        | Prop    | For aftermarket use only |

**PIPER**

**Model:** PA-31  
**Trade Name:** NAVAJO  
**Aircraft T.C./STC:** A20SO  
**Propeller Model:** HC-E2YR-2BTF  
**Propeller T.C.:** P9EA  
**Blade Model(s):** FC8475-4  
 FC8475B-4  
**Prop Diameter:** 80" TO 78"

**IDS No.:** 807      **Rev.:** -      **DM Date:** 01/28/2002

**Modifier:**  
**Engine Model:** TIO-540-A1A, A1B, A2A, A2B  
**Power:** 310 HP @ 2575 RPM  
**Placard/Restr:**  
**Notes:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 14.5 +-0.1  
**Stud Protrusion**

**Startlock Angle:** 20.0 +-1.5  
**Feather/High Angle:** 81.0 +-1.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:** PIPER

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type     | Item Number | Description               | Quantity | Qty Per | Comments                 |
|---------------|-------------|---------------------------|----------|---------|--------------------------|
| PROPELLER     | E2R00125    | HC-E2YR-2BTF/FC8475-4     | 2        | A/C     |                          |
| BLADE         | FC8475-4    | PCP:BLADE UNIT, ALUMINUM  | 2        | Prop    |                          |
| BLADE         | FC8475B-4   | PCP:BLADE UNIT, ALUMINUM  | 2        | Prop    |                          |
| GOVERNOR      | F6-11A      | GOVERNOR ASSEMBLY, F-6-() | 2        | A/C     |                          |
| COUNTERWEIGHT | B-3202H-4   | PCP:COUNTERWEIGHT         | 1        | Blade   | Blade Component          |
| DE-ICER       | 4H1188-3    | DE-ICE BOOT               | 1        | Blade   | Supercedes 7931-4E1188-3 |
| MTG BOLT/STUD | A-2067      | STUD, MOUNTING, 1/2-20    | 6        | Prop    |                          |

# HARTZELL

## APPLICATION GUIDE

159

PIPER

IDS No.: 1570      Rev.: 1      IC      Date: 07/15/2015

**Model:** PA-31  
**Trade Name:** NAVAJO  
**Aircraft T.C./STC:** A20SO  
**Propeller Model:** HC-E3YR-2(A)(T)F  
**Propeller T.C.:** P33EA  
**Blade Model(s):** FC8468-6R  
 FC8468B-6R\*1  
**Prop Diameter:** 80" TO 78"

**Modifier:**  
**Engine Model:** TIO-540-A2C  
**Power:** 310 HP @ 2575 RPM  
**Placard/Restr:**  
**Notes:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.2 +-0.1  
**Stud Protrusion**

**Startlock Angle:** 18.7 +-1.5  
**Feather/High Angle:** 82.0 +-1.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:** PIPER

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>             | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|--------------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | E3R00191           | HC-E3YR-2ATF/FC8468-6R/SM11    | 2               | A/C            |                          |
| PROPELLER        | E3R00191KD         | HC-E3YR-2ATF/FC8468-6R/SM11    | 2               | A/C            |                          |
| BLADE            | FC8468-6R          | PCP:BLADE,UNIT, ALUM B-3202H-2 | 3               | Prop           |                          |
| BLADE            | FC8468B-6R*1       | PCP:BLADE UNIT,4H1188-3 BOOT   | 3               | Prop           |                          |
| GOVERNOR         | F6-24              | GOVERNOR ASSEMBLY, F-6-()      | 1               | Prop           |                          |
| SPIN MTG KIT     | A-2476-11          | SPINNER - MTG KIT              | 1               | Prop           |                          |
| COUNTERWEIGHT    | B-3202H-2          | PCP:COUNTERWEIGHT              | 1               | Blade          | Blade Component          |
| DE-ICER          | 4H1188-3           | DE-ICE BOOT                    | 1               | Blade          | Supercedes 7931-4E1188-3 |
| DE-ICE KIT PR    | 7931-77-845-1A     | IDS ITEM - DE-ICE KIT          | 1               | Prop           |                          |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20         | 6               | Prop           |                          |
| OVERHAUL KIT     | HC-E3YR-2ATF-OH    | O/H KIT                        | 1               | Prop           | For aftermarket use only |

# HARTZELL

## APPLICATION GUIDE

159

PIPER

IDS No.: 821 Rev.: 3 IC Date: 07/15/2015

**Model:** PA-31-T2  
**Trade Name:** CHEYENNE IIXL  
**Aircraft T.C./STC:** A8EA  
**Propeller Model:** HC-B3TN-3B  
**Propeller T.C.:** P15EA  
**Blade Model(s):** T10178B-8R\*1  
 T10178NB-8R\*1  
**Prop Diameter:** 93.5" TO 93"

**Modifier:**  
**Engine Model:** PT6A-135  
**Power:** 620 HP @ 1900 RPM  
**Placard/Restr:**  
**Notes:**

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** -11.0 +-0.5  
**Low Pitch Angle:** 20.2 +-0.1  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 88.2 +-0.5  
**Cwt Angle:** Positive

### Non-HPI Items:

**Non-HPI Spinner:** PIPER

**Non-HPI Governor:**

### Hartzell Approved Items:

| Item Type                      | Item Number   | Description                        | Quantity | Qty Per | Comments                                       |
|--------------------------------|---------------|------------------------------------|----------|---------|--|
| PROPELLER                      | B3N10211      | HC-B3TN-3B/T10178NB-8R[*1]/DEI     | 2        | A/C     |  |
| BLADE                          | T10178B-8R*1  | IDS*ITEM, BLADE, 4E1188-5 BOOT     | 3        | Prop    |  |
| BLADE                          | T10178NB-8R*1 | PCP: BLADE UNIT, AL, 4H1188-5 BOOT | 3        | Prop    |  |
| SPIN MTG KIT                   | B-3384-4H     | BOLT, 1/4-28, HEX HEAD             | 12       | Prop    |  |
| SPIN MTG KIT                   | B-3808-4      | NUT,HEX,SELF-LOCKING               | 24       | Prop    |  |
| SPIN MTG KIT                   | B-3851-0432   | WASHER                             | 24       | Prop    |  |
| SP MT KIT DE-ICE               | A-2070-7      | SCREW, 1/4-28, BUTTON HEAD         | 12       | Prop    |  |
| SP MT KIT DE-ICE               | B-3808-4      | NUT,HEX,SELF-LOCKING               | 12       | Prop    |  |
| SP MT KIT DE-ICE               | B-3867-0432   | IDS Item                           | 12       | Prop    |  |
| COUNTERWEIGHT SLUG A-3039      |               | SLUG, COUNTERWEIGHT                | 1        | Blade   |  |
| COUNTERWEIGHT SLUG A-890-6     |               | PCP:SLUG, COUNTERWEIGHT            | 1        | Blade   | Primary  |
| COUNTERWEIGHT SLUG A-890-8     |               | PCP:SLUG, COUNTERWEIGHT            | 1        | Blade   | Alternate                                      |
| COUNTERWEIGHT SLUG A-890-9     |               | PCP:SLUG, COUNTERWEIGHT            | 1        | Blade   | Alternate                                      |
| COUNTERWEIGHT SLUG B-3384-21H  |               | BOLT, 1/4-28, HEX HEAD             | 2        | Blade   |  |
| COUNTERWEIGHT SLUG B-3851-0432 |               | WASHER                             | 2        | Blade   | Optional                                       |
| COUNTERWEIGHT SLUG B-3851-0463 |               | WASHER                             | 2        | Blade   | Optional                                       |
| DE-ICER                        | 4H1188-5      | DE-ICE BOOT                        | 1        | Blade   | Supersedes 7931-4E1188-5                       |
| DE-ICE KIT PR                  | 7931-65-040-1 | DE-ICE KIT (ONE PROP)              | 1        | Prop    |  |
| MTG BOLT/STUD                  | B-3339        | BOLT, MOUNTING, 9/16-18, 12 POINT  | 8        | Prop    |  |
| OVERHAUL KIT                   | HC-B3TN-3B-OH | O/H KIT                            | 1        | Prop    | For aftermarket use only(ALSO REPLACES A-2741) |



# HARTZELL

## APPLICATION GUIDE 159

PIPER

**Model:** PA-31-T1  
**Trade Name:** CHEYENNE I/IA  
**Aircraft T.C./STC:** STC-SA1787NM  
**Propeller Model:** HC-B3TN-3B  
**Propeller T.C.:** P15EA  
**Blade Model(s):** T10178-10Q  
T10178N-10Q  
**Prop Diameter:** 91.5"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:**  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

### Hartzell Approved Items:

**IDS No.:** 822      **Rev.:** 1      **D**      **Date:** 01/10/2011

**Modifier:** AERO AIR  
**Engine Model:** PT6A-11  
**Power:** 500 HP @ 2200 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:**  
**Cwt Angle:** Unknown

**Non-HPI Governor:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>                | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|-----------------------------------|-----------------|----------------|-----------------|
| BLADE            | T10178-10Q         | IDS*ITEM, BLADE                   | 3               | Prop           |                 |
| BLADE            | T10178N-10Q        | PCP:BLADE UNIT, ALUMINUM          | 3               | Prop           |                 |
| MTG BOLT/STUD    | B-3339             | BOLT, MOUNTING, 9/16-18, 12 POINT | 8               | Prop           |                 |

# HARTZELL

## APPLICATION GUIDE

159

PIPER

IDS No.: 825 Rev.: 1 D Date: 01/10/2011

**Model:** PA-31-T2  
**Trade Name:** CHEYENNE IIXL  
**Aircraft T.C./STC:** STC-SA4743NM  
**Propeller Model:** HC-B3TN-3B  
**Propeller T.C.:** P15EA  
**Blade Model(s):** T10178-10Q  
                           T10178B-10Q  
                           T10178N-10Q  
                           T10178NB-10Q

**Modifier:** AERO AIR  
**Engine Model:** PT6A-135  
**Power:** 620 HP @ 1900 RPM  
**Placard/Restr:**  
**Notes:**

**Prop Diameter:** 91"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** -11.0 +-0.5  
**Low Pitch Angle:** 20.2 +-0.1  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 88.2 +-0.5  
**Cwt Angle:** Unknown

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u>               | <u>Item Number</u> | <u>Description</u>                | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>               |
|--------------------------------|--------------------|-----------------------------------|-----------------|----------------|-------------------------------|
| BLADE                          | T10178-10Q         | IDS*ITEM, BLADE                   | 3               | Prop           |                               |
| BLADE                          | T10178B-10Q        | IDS*ITEM, BLADE, 4E1188-5 BOOT    | 3               | Prop           |                               |
| BLADE                          | T10178N-10Q        | PCP:BLADE UNIT, ALUMINUM          | 3               | Prop           |                               |
| BLADE                          | T10178NB-10Q       | PCP:BLADE UNIT, ALUMINUM          | 3               | Prop           |                               |
| COUNTERWEIGHT SLUG A-3039      |                    | SLUG, COUNTERWEIGHT               | 1               | Blade          |                               |
| COUNTERWEIGHT SLUG A-3384-34H  |                    | IDS Item                          | 2               | Blade          |                               |
| COUNTERWEIGHT SLUG A-890-10    |                    | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          | Primary Option (w/A890-6)     |
| COUNTERWEIGHT SLUG A-890-14    |                    | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          | Secondary Option (w/A-890-8)  |
| COUNTERWEIGHT SLUG A-890-6     |                    | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          | Primary Option (w/A-890-10)   |
| COUNTERWEIGHT SLUG A-890-8     |                    | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          | Secondary Option (w/A-890-14) |
| COUNTERWEIGHT SLUG B-3851-0432 |                    | WASHER                            | 2               | Blade          | Optional                      |
| COUNTERWEIGHT SLUG B-3851-0463 |                    | WASHER                            | 2               | Blade          | Optional                      |
| DE-ICER                        | 4H1188-5           | DE-ICE BOOT                       | 1               | Blade          | Supersedes 7931-4E1188-5      |
| MTG BOLT/STUD                  | B-3339             | BOLT, MOUNTING, 9/16-18, 12 POINT | 8               | Prop           |                               |

# HARTZELL

## APPLICATION GUIDE 159

PIPER

**Model:** PA-31-300  
**Trade Name:** NAVAJO  
**Aircraft T.C./STC:** A20SO  
**Propeller Model:** HC-E2YR-2B(T)  
**Propeller T.C.:**  
**Blade Model(s):** FC8475A-4  
**Prop Diameter:** 80" TO 78"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.5 +-0.1  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:** PIPER

**IDS No.:** 806      **Rev.:** -      **DM Date:** 10/01/1992

**Modifier:**  
**Engine Model:** IO-540-M1A5  
**Power:** 300 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** 18.0 +-1.5  
**Feather/High Angle:** 81.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>         | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|----------------------------|-----------------|----------------|-----------------|
| BLADE            | FC8475A-4          | PCP:BLADE UNIT, ALUMINUM   | 2               | Prop           |                 |
| GOVERNOR         | F6-15A             | GOVERNOR ASSEMBLY, F-6-( ) | 2               | A/C            |                 |
| COUNTERWEIGHT    | B-3202H-4          | PCP:COUNTERWEIGHT          | 1               | Blade          | Blade Component |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20     | 6               | Prop           |                 |

# HARTZELL

## APPLICATION GUIDE

159

PIPER

IDS No.: 808 Rev.: 1 IC Date: 07/15/2015

**Model:** PA-31-310  
**Trade Name:** NAVAJO  
**Aircraft T.C./STC:** A20SO  
**Propeller Model:** HC-E3YR-2(A)(T)(F)  
**Propeller T.C.:** P33EA  
**Blade Model(s):** FC8468-6R  
 FC8468B-6R\*1  
**Prop Diameter:** 80" TO 78"

**Modifier:**  
**Engine Model:** TIO-540-A2A, -A2B  
**Power:** 310 HP @ 2575 RPM  
**Placard/Restr:**  
**Notes:**

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.0 +-0.1  
**Stud Protrusion**

**Startlock Angle:** 18.5 +-1.5  
**Feather/High Angle:** 82.0 +-1.0  
**Cwt Angle:**

### Non-HPI Items:

**Non-HPI Spinner:** PIPER

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>             | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|--------------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | E3R00185           | HC-E3YR-2ATF/FC8468-6R/SM11    | 2               | A/C            |                          |
| PROPELLER        | E3R00185KD         | HC-E3YR-2ATF/FC8468-6R/SM11    | 0               |                |                          |
| PROPELLER        | E3R00211           | HC-E3YR-2ATF/FC8468B-6R*1/SM11 | 2               | A/C            |                          |
| PROPELLER        | E3R00211KD         | HC-E3YR-2ATF/FC8468B-6R*1/SM11 | 2               | A/C            |                          |
| BLADE            | FC8468-6R          | PCP:BLADE,UNIT, ALUM B-3202H-2 | 3               | Prop           |                          |
| BLADE            | FC8468B-6R*1       | PCP:BLADE UNIT,4H1188-3 BOOT   | 3               | Prop           |                          |
| GOVERNOR         | F6-24              | GOVERNOR ASSEMBLY, F-6- ( )    | 2               | A/C            |                          |
| SPIN MTG KIT     | A-2476-11          | SPINNER - MTG KIT              | 1               | Prop           |                          |
| COUNTERWEIGHT    | B-3202H-2          | PCP:COUNTERWEIGHT              | 1               | Blade          | Blade Component          |
| DE-ICER          | 4H1188-3           | DE-ICE BOOT                    | 1               | Blade          | Supercedes 7931-4E1188-3 |
| DE-ICE KIT PR    | 7931-77-845-1A     | IDS ITEM - DE-ICE KIT          | 1               | Prop           |                          |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20         | 6               | Prop           |                          |
| OVERHAUL KIT     | HC-E3YR-2ATF-OH    | O/H KIT                        | 1               | Prop           | For aftermarket use only |

# HARTZELL

## APPLICATION GUIDE

159

PIPER

IDS No.: 810 Rev.: 1 IC Date: 07/15/2015

**Model:** PA-31-325 (left side)  
**Trade Name:** NAVAJO C/R  
**Aircraft T.C./STC:** A20SO  
**Propeller Model:** HC-E3YR-2A(T)F  
**Propeller T.C.:** P33EA  
**Blade Model(s):** FC8468-6R  
 FC8468B-6R\*1  
**Prop Diameter:** 80" TO 78"

**Modifier:**  
**Engine Model:** TIO-540-F2BD  
**Power:** 325 HP @ 2575 RPM  
**Placard/Restr:**  
**Notes:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.2 +-0.1  
**Stud Protrusion**

**Startlock Angle:** 18.7 +-1.5  
**Feather/High Angle:** 82.0 +-1.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:** PIPER

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>             | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|--------------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | E3R00191           | HC-E3YR-2ATF/FC8468-6R/SM11    | 1               | A/C            |                          |
| PROPELLER        | E3R00191KD         | HC-E3YR-2ATF/FC8468-6R/SM11    | 1               | A/C            |                          |
| PROPELLER        | E3R00212           | HC-E3YR-2ATF/FC8468B-6R[*1]    | 1               | A/C            |                          |
| BLADE            | FC8468-6R          | PCP:BLADE,UNIT, ALUM B-3202H-2 | 3               | Prop           |                          |
| BLADE            | FC8468B-6R*1       | PCP:BLADE UNIT,4H1188-3 BOOT   | 3               | Prop           |                          |
| GOVERNOR         | F6-24              | GOVERNOR ASSEMBLY, F-6- ( )    | 1               | A/C            |                          |
| GOVERNOR         | F6-24Z             | GOVERNOR ASSEMBLY, F-6- ( )    | 1               | A/C            |                          |
| SPIN MTG KIT     | A-2476-11          | SPINNER - MTG KIT              | 1               | Prop           |                          |
| COUNTERWEIGHT    | B-3202H-2          | PCP:COUNTERWEIGHT              | 1               | Blade          | Blade Component          |
| DE-ICER          | 4H1188-3           | DE-ICE BOOT                    | 1               | Blade          | Supersedes 7931-4E1188-3 |
| DE-ICE KIT PR    | 7931-77-845-1A     | IDS ITEM - DE-ICE KIT          | 1               | Prop           |                          |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20         | 6               | Prop           |                          |
| OVERHAUL KIT     | HC-E3YR-2ATF-OH    | O/H KIT                        | 1               | Prop           | For aftermarket use only |

# HARTZELL

## APPLICATION GUIDE

159

PIPER

IDS No.: 811 Rev.: 2 IC Date: 07/21/2016

**Model:** PA-31-325 (right side)  
**Trade Name:** NAVAJO C/R  
**Aircraft T.C./STC:** A20SO  
**Propeller Model:** HC-E3YR-2AL(T)F  
**Propeller T.C.:** P33EA  
**Blade Model(s):** FJC8468-6R  
 FJC8468B-6R  
**Prop Diameter:** 80" TO 78"

**Modifier:**  
**Engine Model:** LTIO-540-F2BD (right)  
**Power:** 325 HP @ 2575 RPM  
**Placard/Restr:**  
**Notes:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.2 +-0.1  
**Stud Protrusion**

**Startlock Angle:** 18.7 +-1.5  
**Feather/High Angle:** 82.0 +-1.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:** PIPER

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type     | Item Number    | Description                    | Quantity | Qty Per | Comments                 |
|---------------|----------------|--------------------------------|----------|---------|--------------------------|
| PROPELLER     | E3R00121       | HC-E3YR-2ALTF/FJC8468-6R/SM11  | 1        | A/C     |                          |
| PROPELLER     | E3R00121KD     | HC-E3YR-2ALTF/FJC8468-6R/SM11  | 1        | A/C     |                          |
| PROPELLER     | E3R00143       | HC-E3YR-2ALTF/FJC8468B-6R/SM11 | 1        | A/C     |                          |
| BLADE         | FJC8468-6R     | PCP:BLADE UNIT, ALUMINUM       | 3        | Prop    |                          |
| BLADE         | FJC8468B-6R    | PCP:BLADE UNIT, ALUMINUM       | 3        | Prop    |                          |
| GOVERNOR      | F6-24L         | GOVERNOR ASSEMBLY, F-6-( )     | 1        | A/C     |                          |
| GOVERNOR      | F6-24LZ        | GOVERNOR ASSEMBLY, F-6-( )     | 1        | A/C     |                          |
| GOVERNOR      | F8-24L         | GOVERNOR ASSEMBLY, F-8-( )     | 1        | A/C     | 14 Volt                  |
| GOVERNOR      | F8-24LZ        | GOVERNOR ASSEMBLY, F-8-( )     | 1        | A/C     | 14 Volt                  |
| GOVERNOR      | F8-48L         | GOVERNOR ASSEMBLY, F-8-( )     | 1        | A/C     | 28 Volt                  |
| GOVERNOR      | F8-48LZ        | GOVERNOR ASSEMBLY, F-8-( )     | 1        | A/C     | 28 Volt                  |
| SPIN MTG KIT  | A-2476-11      | SPINNER - MTG KIT              | 1        | Prop    |                          |
| COUNTERWEIGHT | B-3202H-2      | PCP:COUNTERWEIGHT              | 1        | Blade   | Blade Component          |
| DE-ICER       | 4H1601-3       | DE-ICE BOOT                    | 1        | Blade   | Supersedes 7931-4E1601-3 |
| DE-ICE KIT PR | 7931-77-845-1B | IDS ITEM - DE-ICE KIT          | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2067         | STUD, MOUNTING, 1/2-20         | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-E3YR-2ALTF  | O/H KIT                        | 1        | Prop    | For aftermarket use only |

# HARTZELL

## APPLICATION GUIDE

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**PIPER**

IDS No.: 1116 Rev.: 2 IC Date: 04/03/2019

**Model:** PA-31-325, -350 (left side)  
**Trade Name:** NAVAJO CHIEFTAIN (PANTHER)  
**Aircraft T.C./STC:** STC-SA970S0/1151SO  
**Propeller Model:** HC-C4YR-2  
**Propeller T.C.:** P52GL  
**Blade Model(s):** FC7663D-6Q  
 FC7663DB-6Q  
 FC7663DB-6Q\*1

**Modifier:** COLEMILL  
**Engine Model:** TIO-540-J2BD  
**Power:** 350 HP @ 2575 RPM  
**Placard/Restr:**  
**Notes:** STC SA1151SO also applies

**Prop Diameter:** 73.75"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 14.2 +-0.1  
**Stud Protrusion**

**Startlock Angle:** 19.7 +-1.5  
**Feather/High Angle:** 83.5 +-0.5  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type     | Item Number   | Description                    | Quantity | Qty Per | Comments                  |
|---------------|---------------|--------------------------------|----------|---------|---------------------------|
| PROPELLER     | C4R00025      | HC-C4YR-2/FC7663D-6Q/SM20      | 1        | A/C     |                           |
| PROPELLER     | C4R00035      | HC-C4YR-2/FC7663DB-6Q/SM20     | 1        | A/C     |                           |
| PROPELLER     | C4R00039      | HC-C4YR-2/FC7663DB-6Q[*1]/SM20 | 1        | A/C     |                           |
| BLADE         | FC7663D-6Q    | PCP:BLADE UNIT, ALUMINUM       | 4        | Prop    |                           |
| BLADE         | FC7663DB-6Q   | PCP:BLADE UNIT, ALUM 4H1601-7  | 4        | Prop    |                           |
| BLADE         | FC7663DB-6Q*1 | PCP:BLADE UNIT,ALUM, 4H1601-14 | 4        | Prop    |                           |
| SPINNER       | D-4511        | SPINNER ASSEMBLY               | 1        | Prop    |                           |
| SPINNER       | D-4511-P      | SPINNER ASSEMBLY               | 1        | A/C     |                           |
| SPIN MTG KIT  | A-2476-20     | SPINNER - MTG KIT              | 1        | Prop    |                           |
| COUNTERWEIGHT | B-3202H-5     | PCP:COUNTERWEIGHT              | 1        | Blade   | Blade Component           |
| DE-ICER       | 4H1601-14     | DE-ICE BOOT                    | 1        | Blade   | Supersedes 7931-4E1601-14 |
| DE-ICER       | 4H1601-7      | DE-ICE BOOT                    | 1        | Blade   | Supersedes 7931-4E1601-7  |
| DE-ICE KIT PR | 7931-65-225   | DE-ICE KIT,4H1967-1 (ONE PROP) | 1        | Prop    |                           |
| DE-ICE KIT PR | 7931-65-225*1 | DE-ICE KIT,4H1967-3(ONE PROP)  | 1        | Prop    |                           |
| MTG BOLT/STUD | A-2067        | STUD, MOUNTING, 1/2-20         | 6        | Prop    |                           |
| OVERHAUL KIT  | HC-C4YR-2-OH  | O/H KIT                        | 1        | Prop    | For aftermarket use only  |





# HARTZELL

## APPLICATION GUIDE

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PIPER

IDS No.: 814 Rev.: 2 IC Date: 08/03/2018

**Model:** PA-31-350 (left side)  
**Trade Name:** NAVAJO CHIEFTAIN, T-1020  
**Aircraft T.C./STC:** A20SO  
**Propeller Model:** HC-E3YR-2A(T)(F)  
**Propeller T.C.:** P33EA  
**Blade Model(s):** FC8468-6R  
 FC8468B-6R\*1  
**Prop Diameter:** 80.0" TO 78.0"

**Modifier:**  
**Engine Model:** TIO-540-J2B, -J2BD  
**Power:** 350 HP @ 2575 RPM  
**Placard/Restr:**

**Notes:** Aircraft has C/R engines. This prop is for the left side.

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.4 +-0.1  
**Stud Protrusion**

**Startlock Angle:** 18.9 +-1.5  
**Feather/High Angle:** 82.0 +-1.0  
**Cwt Angle:**

### Non-HPI Items:

**Non-HPI Spinner:** PIPER

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>             | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|--------------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | E3R00190           | HC-E3YR-2ATF/FC8468-6R/SM11    | 1               | A/C            |                          |
| PROPELLER        | E3R00190KD         | HC-E3YR-2ATF/FC8468-6R/SM11    | 1               | A/C            |                          |
| PROPELLER        | E3R00213           | HC-E3YR-2ATF/FC8468B-6R*1/SM11 | 0               |                |                          |
| PROPELLER        | E3R00213KD         | HC-E3YR-2ATF/FC8468B-6R*1/SM11 | 1               | A/C            |                          |
| BLADE            | FC8468-6R          | PCP:BLADE,UNIT, ALUM B-3202H-2 | 3               | Prop           |                          |
| BLADE            | FC8468B-6R*1       | PCP:BLADE UNIT,4H1188-3 BOOT   | 3               | Prop           |                          |
| GOVERNOR         | F6-24Z             | GOVERNOR ASSEMBLY, F-6- ( )    | 1               | A/C            |                          |
| SPIN MTG KIT     | A-2476-11          | SPINNER - MTG KIT              | 1               | Prop           |                          |
| COUNTERWEIGHT    | B-3202H-2          | PCP:COUNTERWEIGHT              | 1               | Blade          | Blade Component          |
| DE-ICER          | 4H1188-3           | DE-ICE BOOT                    | 1               | Blade          | Supercedes 7931-4E1188-3 |
| DE-ICE KIT PR    | 7931-77-845-1A     | IDS ITEM - DE-ICE KIT          | 1               | Prop           |                          |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20         | 6               | Prop           |                          |
| OVERHAUL KIT     | HC-E3YR-2ATF-OH    | O/H KIT                        | 1               | Prop           | For aftermarket use only |

# HARTZELL

## APPLICATION GUIDE

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PIPER

IDS No.: 815 Rev.: 2 IC Date: 08/03/2018

**Model:** PA-31-350 (right side)  
**Trade Name:** NAVAJO CHIEFTAIN, T-1020  
**Aircraft T.C./STC:** A20SO  
**Propeller Model:** HC-E3YR-2AL(T)(F)  
**Propeller T.C.:** P33EA  
**Blade Model(s):** FJC8468-6R  
 FJC8468B-6R  
**Prop Diameter:** 80.0" TO 78.0"

**Modifier:**  
**Engine Model:** LTIO-540-J2B, -J2BD  
**Power:** 350 HP @ 2575 RPM  
**Placard/Restr:**

**Notes:** Aircraft has C/R engines. This prop is for the right side.

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.4 +-0.1  
**Stud Protrusion**

**Startlock Angle:** 18.9 +-1.5  
**Feather/High Angle:** 82.0 +-1.0  
**Cwt Angle:**

### Non-HPI Items:

**Non-HPI Spinner:** PIPER

**Non-HPI Governor:**

### Hartzell Approved Items:

| Item Type     | Item Number    | Description                    | Quantity | Qty Per | Comments                 |
|---------------|----------------|--------------------------------|----------|---------|--------------------------|
| PROPELLER     | E3R00120       | HC-E3YR-2ALTF/FJC8468-6R/SM11  | 1        | A/C     |                          |
| PROPELLER     | E3R00120KD     | HC-E3YR-2ALTF/FJC8468-6R/SM11  | 1        | A/C     |                          |
| PROPELLER     | E3R00144       | HC-E3YR-2ALTF/FJC8468B-6R/SM11 | 1        | A/C     |                          |
| PROPELLER     | E3R00144KD     | HC-E3YR-2ALTF/FJC8468B-6R/SM11 | 1        | A/C     |                          |
| BLADE         | FJC8468-6R     | PCP:BLADE UNIT, ALUMINUM       | 3        | Prop    |                          |
| BLADE         | FJC8468B-6R    | PCP:BLADE UNIT, ALUMINUM       | 3        | Prop    |                          |
| GOVERNOR      | F6-24LZ        | GOVERNOR ASSEMBLY, F-6- ( )    | 1        | A/C     |                          |
| SPIN MTG KIT  | A-2476-11      | SPINNER - MTG KIT              | 1        | Prop    |                          |
| COUNTERWEIGHT | B-3202H-2      | PCP:COUNTERWEIGHT              | 1        | Blade   | Blade Component          |
| DE-ICER       | 4H1601-3       | DE-ICE BOOT                    | 1        | Blade   | Supersedes 7931-4E1601-3 |
| DE-ICE KIT PR | 7931-77-845-1B | IDS ITEM - DE-ICE KIT          | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2067         | STUD, MOUNTING, 1/2-20         | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-E3YR-2ALTF  | O/H KIT                        | 1        | Prop    | For aftermarket use only |

# HARTZELL

## APPLICATION GUIDE

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PIPER

IDS No.: 818 Rev.: 1 IC Date: 10/29/2021

**Model:** PA-31-350 (left side)  
**Trade Name:** NAVAJO  
**Aircraft T.C./STC:** STC-SA3642NM  
**Propeller Model:** HC-E3YR-2ATF  
**Propeller T.C.:** P33EA  
**Blade Model(s):** FC8468B-8Q  
**Prop Diameter:** 78"

**Modifier:** CAPE SMITH AIR  
**Engine Model:** TIO-540-J2BD  
**Power:** 350 HP @ 2575 RPM  
**Placard/Restr:**

**Notes:** See IDS #1951 for LH prop

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.4 +-0.1  
**Stud Protrusion**

**Startlock Angle:** 18.9 +-1.5  
**Feather/High Angle:** 82.0 +-1.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:** PIPER

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>         | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|----------------------------|-----------------|----------------|--------------------------|
| BLADE            | FC8468B-8Q         | PCP:BLADE UNIT, ALUMINUM   | 3               | Prop           |                          |
| GOVERNOR         | F6-24              | GOVERNOR ASSEMBLY, F-6-( ) | 0               |                |                          |
| GOVERNOR         | F6-24L             | GOVERNOR ASSEMBLY, F-6-( ) | 0               |                |                          |
| GOVERNOR         | F8-24L             | GOVERNOR ASSEMBLY, F-8-( ) | 0               |                |                          |
| GOVERNOR         | F8-48L             | GOVERNOR ASSEMBLY, F-8-( ) | 0               |                |                          |
| SPIN MTG KIT     | A-2476-11          | SPINNER - MTG KIT          | 1               | Prop           |                          |
| COUNTERWEIGHT    | B-3202H-2          | PCP:COUNTERWEIGHT          | 1               | Blade          | Blade Component          |
| DE-ICER          | 4H1188-3           | DE-ICE BOOT                | 1               | Blade          | Supercedes 7931-4E1188-3 |
| DE-ICE KIT PR    | 7931-77-845-1A     | IDS ITEM - DE-ICE KIT      | 1               | Prop           |                          |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20     | 6               | Prop           |                          |
| SYNCHROPHASER    | A-4470             | SYNCHROPHASER KIT          | 1               | A/C            |                          |

# HARTZELL

## APPLICATION GUIDE

159

PIPER

IDS No.: 1951 Rev.: 1 IC Date: 10/29/2021

**Model:** PA-31-350 (right side)  
**Trade Name:** NAVAJO  
**Aircraft T.C./STC:** STC-SA3642NM  
**Propeller Model:** HC-E3YR-2ALTF  
**Propeller T.C.:** P33EA  
**Blade Model(s):** FJC8468B-8Q  
**Prop Diameter:** 78"

**Modifier:** CAPE SMITH AIR  
**Engine Model:** LTIO-540-J2BD  
**Power:** 350 HP @ 2575 RPM  
**Placard/Restr:**

**Notes:** See IDS #818 for RH prop

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.4 +-0.1  
**Stud Protrusion**

**Startlock Angle:** 18.9 +-1.5  
**Feather/High Angle:** 82.0 +-1.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:** PIPER

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>         | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|----------------------------|-----------------|----------------|--------------------------|
| BLADE            | FJC8468B-8Q        | PCP:BLADE UNIT, ALUMINUM   | 3               | Prop           |                          |
| GOVERNOR         | F6-24              | GOVERNOR ASSEMBLY, F-6-( ) | 1               | Prop           |                          |
| GOVERNOR         | F6-24L             | GOVERNOR ASSEMBLY, F-6-( ) | 1               | Prop           |                          |
| GOVERNOR         | F8-24L             | GOVERNOR ASSEMBLY, F-8-( ) | 1               | Prop           |                          |
| GOVERNOR         | F8-48L             | GOVERNOR ASSEMBLY, F-8-( ) | 1               | Prop           |                          |
| SPIN MTG KIT     | A-2476-11          | SPINNER - MTG KIT          | 1               | Prop           |                          |
| COUNTERWEIGHT    | B-3202H-2          | PCP:COUNTERWEIGHT          | 1               | Blade          | Blade Component          |
| DE-ICER          | 4H1601-3           | DE-ICE BOOT                | 1               | Blade          | Supersedes 7931-4E1601-3 |
| DE-ICE KIT PR    | 7931-77-845-1B     | IDS ITEM - DE-ICE KIT      | 1               | Prop           |                          |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20     | 6               | Prop           |                          |
| SYNCHROPHASER    | A-4470             | SYNCHROPHASER KIT          | 1               | A/C            |                          |

# HARTZELL

## APPLICATION GUIDE 159

**PIPER**

IDS No.: 819      Rev.: 1      IC      Date: 02/10/2021

**Model:** PA-31P  
**Trade Name:** PRESSURIZED NAVAJO  
**Aircraft T.C./STC:** A8EA  
**Propeller Model:** HC-C3YN-2L(A)UF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** FJC9684-3R  
    FJC9684B-3R  
**Prop Diameter:** 93" NO CUT OFF

**Modifier:**  
**Engine Model:** TIGO-541-E  
**Power:** 425 HP @ 2133 RPM  
**Placard/Restr:**

**Notes:** Propeller de-ice is boots only spare for field replacement (Boots with restrainer tie straps, no other hardware).

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 17.2 +-0.1  
**Stud Protrusion** 1.580 +-0.030

**Startlock Angle:** 22.7 +-1.5  
**Feather/High Angle:** 85.7 +-1.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:** PIPER

**Non-HPI Governor:** WOODWARD

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>            | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|-------------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | C3N00100           | HC-C3YN-2LUF/FJC9684-3R       | 2               | A/C            |                          |
| PROPELLER        | C3N00150           | HC-C3YN-2LUF/FJC9684B-3R/SM13 | 2               | A/C            |                          |
| BLADE            | FJC9684-3R         | PCP:BLADE UNIT, ALUMINUM      | 3               | Prop           |                          |
| BLADE            | FJC9684B-3R        | PCP:BLADE UNIT, ALUMINUM      | 3               | Prop           |                          |
| SPIN MTG KIT     | A-2476-13          | SPINNER - MTG KIT             | 1               | Prop           |                          |
| COUNTERWEIGHT    | B-3202H-1          | PCP:COUNTERWEIGHT             | 1               | Blade          | Blade Component          |
| DE-ICER          | 4H1601-3           | DE-ICE BOOT                   | 1               | Blade          | Supersedes 7931-4E1601-3 |
| DE-ICE KIT PR    | 7931-77-940        | IDS ITEM - DE-ICE KIT         | 1               | A/C            |                          |
| MTG BOLT/STUD    | A-3254             | STUD, MOUNTING, 9/16-18       | 8               | Prop           |                          |

# HARTZELL

## APPLICATION GUIDE

159

PIPER

**Model:** PA-31P  
**Trade Name:** COMANCHERO 500  
**Aircraft T.C./STC:** STC SA4268SW  
**Propeller Model:** HC-B3TN-3B  
**Propeller T.C.:** P15EA  
**Blade Model(s):** T10173ANB-6Q  
**Prop Diameter:** 95.5"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** -10.0 +-0.5  
**Low Pitch Angle:** 20.0 +-0.1

**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 823      **Rev.:** 1      **D**      **Date:** 01/10/2011

**Modifier:** SCHAFFER AIRCRAFT CORP.

**Engine Model:** PT6A-135

**Power:** 620 HP @ 1900 RPM

**Placard/Restr:**

**Notes:**

**Startlock Angle:** NA

**Feather/High Angle:** 87.5 +-0.5

**Cwt Angle:** Positive

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u>               | <u>Item Number</u> | <u>Description</u>                | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|--------------------------------|--------------------|-----------------------------------|-----------------|----------------|--------------------------|
| BLADE                          | T10173ANB-6Q       | PCP:BLADE UNIT, ALUMINUM          | 3               | Prop           |                          |
| SPINNER                        | D-4258             | BULKHEAD UNIT                     | 1               | Prop           |                          |
| COUNTERWEIGHT SLUG A-3039      |                    | SLUG, COUNTERWEIGHT               | 1               | Blade          |                          |
| COUNTERWEIGHT SLUG A-890-8     |                    | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          |                          |
| COUNTERWEIGHT SLUG B-3384-18H  |                    | BOLT, 1/4-28, HEX HEAD            | 2               | Blade          |                          |
| COUNTERWEIGHT SLUG B-3851-0432 |                    | WASHER                            | 2               | Blade          | Optional                 |
| COUNTERWEIGHT SLUG B-3851-0463 |                    | WASHER                            | 2               | Blade          | Optional                 |
| DE-ICER                        | 4H1188-5           | DE-ICE BOOT                       | 1               | Blade          | Supersedes 7931-4E1188-5 |
| DE-ICE KIT PR                  | 7931-65-040-1      | DE-ICE KIT (ONE PROP)             | 1               | Prop           |                          |
| MTG BOLT/STUD                  | B-3339             | BOLT, MOUNTING, 9/16-18, 12 POINT | 8               | Prop           |                          |

# HARTZELL

## APPLICATION GUIDE 159

**PIPER**

IDS No.: 813      Rev.: 2      IC      Date: 04/07/2015

**Model:** PA-31P-350 (left side)  
**Trade Name:** MOJAVE  
**Aircraft T.C./STC:** A8EA  
**Propeller Model:** HC-I3YR-2UF  
**Propeller T.C.:** P33EA  
**Blade Model(s):** FC7854  
 FC7854K  
**Prop Diameter:** 80" NO CUT OFF

**Modifier:**  
**Engine Model:** TIO-540-V2AD (left)  
**Power:** 350 HP @ 2600 RPM  
**Placard/Restr:**  
**Notes:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.5 +-0.1  
**Stud Protrusion**

**Startlock Angle:** 18.0 +-1.5  
**Feather/High Angle:** 80.0 +-0.5  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>            | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>           |
|------------------|--------------------|-------------------------------|-----------------|----------------|---------------------------|
| PROPELLER        | I3R00015           | HC-I3YR-2UF/FC7854            | 1               | A/C            |                           |
| PROPELLER        | I3R00016           | HC-I3YR-2UF/FC7854K           | 1               | A/C            |                           |
| BLADE            | FC7854             | PCP:BLADE UNIT, ALUMINUM      | 3               | Prop           |                           |
| BLADE            | FC7854K            | PCP:BLADE UNIT, ALUMINUM      | 3               | Prop           |                           |
| SPINNER          | D-4841             | SPINNER ASSEMBLY              | 1               | Prop           |                           |
| GOVERNOR         | V1                 | GOVERNOR ASSEMBLY, V-(1,2)-() | 1               | A/C            |                           |
| GOVERNOR         | V1-L               | GOVERNOR ASSEMBLY, V-(1,2)-() | 1               | A/C            |                           |
| GOVERNOR         | V2-L               | GOVERNOR ASSEMBLY, V-(1,2)-() | 1               | A/C            | Synchrophasing            |
| SPIN MTG KIT     | A-2476-9           | SPINNER - MTG KIT             | 1               | Prop           |                           |
| COUNTERWEIGHT    | B-3202H-7          | PCP:COUNTERWEIGHT             | 1               | Blade          | Blade Component           |
| DE-ICER          | 4H2271-10          | DE-ICE BOOT                   | 1               | Blade          | Supersedes 7931-4E2271-10 |
| DE-ICE KIT PR    | 7931-67-370-1      | DE-ICE KIT (ONE PROP)         | 1               | Prop           |                           |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20        | 6               | Prop           |                           |

# HARTZELL

## APPLICATION GUIDE

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PIPER

IDS No.: 816      Rev.: 3      IC      Date: 01/13/2016

**Model:** PA-31P-350 (right side)  
**Trade Name:** MOJAVE  
**Aircraft T.C./STC:** A8EA  
**Propeller Model:** HC-I3YR-2LUF  
**Propeller T.C.:** P33EA  
**Blade Model(s):** FJC7854  
                                 FJC7854K  
**Prop Diameter:** 80" NO CUT OFF

**Modifier:**  
**Engine Model:** LTIO-540-V2AD (right)  
**Power:** 350 HP @ 2600 RPM  
**Placard/Restr:**  
**Notes:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.5 +-0.1  
**Stud Protrusion**

**Startlock Angle:** 18.0 +-1.5  
**Feather/High Angle:** 80.0 +-0.5  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>            | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>           |
|------------------|--------------------|-------------------------------|-----------------|----------------|---------------------------|
| PROPELLER        | I3R00045           | HC-I3YR-2LUF/FJC7854          | 1               | A/C            |                           |
| PROPELLER        | I3R00045KD         | HC-I3YR-2LUF/FJC7854          | 1               | A/C            |                           |
| PROPELLER        | I3R00046           | HC-I3YR-2LUF/FJC7854K         | 1               | A/C            |                           |
| BLADE            | FJC7854            | PCP:BLADE UNIT, ALUMINUM      | 3               | Prop           |                           |
| BLADE            | FJC7854K           | PCP:BLADE UNIT, ALUMINUM      | 3               | Prop           |                           |
| SPINNER          | D-4841             | SPINNER ASSEMBLY              | 1               | Prop           |                           |
| GOVERNOR         | V1                 | GOVERNOR ASSEMBLY, V-(1,2)-() | 0               |                |                           |
| GOVERNOR         | V1-L               | GOVERNOR ASSEMBLY, V-(1,2)-() | 1               | A/C            |                           |
| GOVERNOR         | V2-L               | GOVERNOR ASSEMBLY, V-(1,2)-() | 1               | A/C            | Synchrophasing            |
| SPIN MTG KIT     | A-2476-9           | SPINNER - MTG KIT             | 1               | Prop           |                           |
| COUNTERWEIGHT    | B-3202H-7L         | PCP:COUNTERWEIGHT             | 1               | Blade          | Blade Component           |
| DE-ICER          | 4H2200-10          | DE-ICE BOOT                   | 1               | Blade          | Supersedes 7931-4E2200-10 |
| DE-ICE KIT PR    | 7931-67-370-1      | DE-ICE KIT (ONE PROP)         | 1               | Prop           |                           |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20        | 6               | Prop           |                           |



# HARTZELL

## APPLICATION GUIDE

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**PIPER**

IDS No.: 820 Rev.: 2 IC Date: 07/15/2015

**Model:** PA-31T, PA-31T1, PA-31T3

**Trade Name:** CHEYENNE

**Aircraft T.C./STC:** A8EA

**Propeller Model:** HC-B3TN-3B

**Propeller T.C.:** P15EA

**Blade Model(s):** T10173-8  
T10173B-8  
T10173K-8  
T10173N-8  
T10173NB-8  
T10173NK-8

**Prop Diameter:** 93.5" TO 93.0"

**Prop Setup:**

**Ref. Radius:** 30

**Reverse Angle:** -11.0 +/-0.5

**Low Pitch Angle:** 20.2 +/-0.1

**Stud Protrusion**

**Modifier:**

**Engine Model:** PT6A-28, -11

**Power:** 620 HP @ 2200 RPM

**Placard/Restr:**

**Notes:** Engine Ratings Note: PT6A-11 (500hp)

**Startlock Angle:** NA

**Feather/High Angle:** 87.0 +/-0.5

**Cwt Angle:** Positive

**Non-HPI Items:**

**Non-HPI Spinner:** HARTZELL BULKHEAD,  
PIPER DOME

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type                      | Item Number   | Description                       | Quantity | Qty Per | Comments                                       |
|--------------------------------|---------------|-----------------------------------|----------|---------|--|
| PROPELLER                      | B3N10182      | HC-B3TN-3B/T10173NB-8/BULK/DEI    | 2        | A/C     |  |
| PROPELLER                      | B3N10182KD    | HC-B3TN-3B/T10173NB-8/BULK/DEI    | 2        | A/C     |  |
| BLADE                          | T10173-8      | BLADE                             | 3        | Prop    |  |
| BLADE                          | T10173B-8     | BLADE, 4E1188-5 BOOT              | 3        | Prop    |  |
| BLADE                          | T10173K-8     | BLADE, 4E2200-10 BOOT             | 3        | Prop    |  |
| BLADE                          | T10173N-8     | PCP:BLADE UNIT, ALUM [1,1,1]      | 3        | Prop    |  |
| BLADE                          | T10173NB-8    | PCP:BLADE UNIT, ALUM, 4H1188-5    | 3        | Prop    |  |
| BLADE                          | T10173NK-8    | PCP:BLADE UNIT, ALUM 4H2200-10    | 3        | Prop    |  |
| SPINNER                        | D-4258        | BULKHEAD UNIT                     | 1        | Prop    |  |
| SPIN MTG KIT                   | B-3384-4H     | BOLT, 1/4-28, HEX HEAD            | 12       | Prop    |  |
| SPIN MTG KIT                   | B-3808-4      | NUT,HEX,SELF-LOCKING              | 12       | Prop    |  |
| SPIN MTG KIT                   | B-3851-0432   | WASHER                            | 24       | Prop    |  |
| SP MT KIT DE-ICE               | A-2070-7      | SCREW, 1/4-28, BUTTON HEAD        | 12       | Prop    | For "K" boot, 65-055-1 kit                     |
| SP MT KIT DE-ICE               | A-2070-7      | SCREW, 1/4-28, BUTTON HEAD        | 12       | Prop    | For "B" de-icer, 65-040-1 kit                  |
| SP MT KIT DE-ICE               | B-3808-4      | NUT,HEX,SELF-LOCKING              | 12       | Prop    | For "K" boot, 65-055-1 kit                     |
| SP MT KIT DE-ICE               | B-3808-4      | NUT,HEX,SELF-LOCKING              | 12       | Prop    | For "B" de-icer, 65-040-1 kit                  |
| SP MT KIT DE-ICE               | B-3837-0432   | WASHER, CORROSION RESISTANT       | 12       | Prop    | For "K" boot, 65-055-1 kit                     |
| SP MT KIT DE-ICE               | B-3837-0432   | WASHER, CORROSION RESISTANT       | 12       | Prop    | For "B" de-icer, 65-040-1 kit                  |
| SP MT KIT DE-ICE               | B-7077-52     | BELLEVILLE SPRING WASHER          | 12       | Prop    | For "K" boot, 65-055-1 kit                     |
| COUNTERWEIGHT SLUG A-3039      |               | SLUG, COUNTERWEIGHT               | 1        | Blade   |  |
| COUNTERWEIGHT SLUG A-890-8     |               | PCP:SLUG, COUNTERWEIGHT           | 1        | Blade   |  |
| COUNTERWEIGHT SLUG B-3384-18H  |               | BOLT, 1/4-28, HEX HEAD            | 2        | Blade   |  |
| COUNTERWEIGHT SLUG B-3851-0432 |               | WASHER                            | 2        | Blade   | Optional                                       |
| COUNTERWEIGHT SLUG B-3851-0463 |               | WASHER                            | 2        | Blade   | Optional                                       |
| DE-ICER                        | 4H1188-5      | DE-ICE BOOT                       | 1        | Blade   | Supersedes 7931-4E1188-5                       |
| DE-ICER                        | 4H2200-10     | DE-ICE BOOT                       | 1        | Blade   | Supersedes 7931-4E2200-10                      |
| DE-ICE KIT PR                  | 7931-65-040-1 | DE-ICE KIT (ONE PROP)             | 1        | Prop    |  |
| DE-ICE KIT PR                  | 7931-67-055-1 | DE-ICE KIT (ONE PROP)             | 1        | Prop    | "K" de-ice                                     |
| MTG BOLT/STUD                  | B-3339        | BOLT, MOUNTING, 9/16-18, 12 POINT | 8        | Prop    |  |
| OVERHAUL KIT                   | HC-B3TN-3B-OH | O/H KIT                           | 1        | Prop    | For aftermarket use only(ALSO REPLACES A-2741) |

# HARTZELL

## APPLICATION GUIDE

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**PIPER**

IDS No.: 824      Rev.: 2      D      Date: 06/04/2013

**Model:** PA-31T  
**Trade Name:**  
**Aircraft T.C./STC:** STC-SA4335SW  
**Propeller Model:** HC-B3TN-3C  
**Propeller T.C.:** P15EA  
**Blade Model(s):** T10178B-8R\*1  
                           T10178NB-8R\*1  
                           T10178NK-8R

**Modifier:** STANDARD AERO INC.  
**Engine Model:** PT6A-135(A)  
**Power:** 750 HP @ 1900 RPM  
**Placard/Restr:**  
**Notes:** OEM de-ice per customer request

**Prop Diameter:** 93.5"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** -10.0 +-0.5  
**Low Pitch Angle:** 20.2 +-0.1

**Startlock Angle:** NA  
**Feather/High Angle:** 87.5 +-0.5  
**Cwt Angle:** Positive

**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u>               | <u>Item Number</u> | <u>Description</u>                 | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>           |
|--------------------------------|--------------------|------------------------------------|-----------------|----------------|---------------------------|
| PROPELLER                      | B3N10298           | HC-B3TN-3C/T10178NB-8R[*1]/DEI     | 2               | A/C            |                           |
| PROPELLER                      | B3N10299           | HC-B3TN-3C/T10178NB-8R[*1]         | 2               | A/C            |                           |
| PROPELLER                      | B3N10301           | HC-B3TN-3C/T10178NK-8R/DE-ICE      | 2               | A/C            |                           |
| BLADE                          | T10178B-8R*1       | IDS*ITEM, BLADE, 4E1188-5 BOOT     | 3               | Prop           |                           |
| BLADE                          | T10178NB-8R*1      | PCP: BLADE UNIT, AL, 4H1188-5 BOOT | 3               | Prop           |                           |
| BLADE                          | T10178NK-8R        | PCP:BLADE UNIT, ALUMINUM           | 3               | Prop           |                           |
| SPINNER                        | D-4258             | BULKHEAD UNIT                      | 1               | Prop           |                           |
| SP MT KIT DE-ICE               | A-2070-7           | SCREW, 1/4-28, BUTTON HEAD         | 12              | Prop           |                           |
| SP MT KIT DE-ICE               | B-3808-4           | NUT,HEX,SELF-LOCKING               | 12              | Prop           |                           |
| SP MT KIT DE-ICE               | B-3837-0432        | WASHER, CORROSION RESISTANT        | 12              | Prop           |                           |
| SP MT KIT DE-ICE               | B-7077-52          | BELLEVILLE SPRING WASHER           | 12              | Prop           |                           |
| COUNTERWEIGHT SLUG A-3039      |                    | SLUG, COUNTERWEIGHT                | 1               | Blade          |                           |
| COUNTERWEIGHT SLUG A-890-6     |                    | PCP:SLUG, COUNTERWEIGHT            | 1               | Blade          | Primary                   |
| COUNTERWEIGHT SLUG A-890-8     |                    | PCP:SLUG, COUNTERWEIGHT            | 1               | Blade          | Alternate                 |
| COUNTERWEIGHT SLUG A-890-9     |                    | PCP:SLUG, COUNTERWEIGHT            | 1               | Blade          | Alternate                 |
| COUNTERWEIGHT SLUG B-3384-21H  |                    | BOLT, 1/4-28, HEX HEAD             | 2               | Blade          |                           |
| COUNTERWEIGHT SLUG B-3851-0432 |                    | WASHER                             | 2               | Blade          | Optional                  |
| COUNTERWEIGHT SLUG B-3851-0463 |                    | WASHER                             | 2               | Blade          | Optional                  |
| DE-ICER                        | 4H1188-5           | DE-ICE BOOT                        | 1               | Blade          | Supersedes 7931-4E1188-5  |
| DE-ICER                        | 4H2200-10          | DE-ICE BOOT                        | 1               | Blade          | Supersedes 7931-4E2200-10 |
| DE-ICE KIT PR                  | 7931-65-040-1      | DE-ICE KIT (ONE PROP)              | 1               | Prop           |                           |
| DE-ICE KIT PR                  | 7931-67-055-1      | DE-ICE KIT (ONE PROP)              | 1               | Prop           |                           |
| MTG BOLT/STUD                  | B-3339             | BOLT, MOUNTING, 9/16-18, 12 POINT  | 8               | Prop           |                           |

# HARTZELL

## APPLICATION GUIDE 159

**PIPER**

**Model:** PA-31T, PA-31T1, PA-31T2  
**Trade Name:** CHEYENNE  
**Aircraft T.C./STC:** STC-SA00863SE  
**Propeller Model:** HC-E4N-3N  
**Propeller T.C.:** P10NE

**IDS No.:** 1784      **Rev.:** 3      **IC Date:** 01/22/2016

**Modifier:** Blackhawk Modifications, Inc.  
**Engine Model:** PT6A-135(A)  
**Power:** 620 HP @ 1900 RPM  
**Placard/Restr:** "Stabilized ground operation is prohibited between 500 and 1070 RPM. The propeller may be operated feathered at or below 500 RPM."

**Blade Model(s):** D8990S  
 D8990SB  
 D8990SB\*1  
**Prop Diameter:** 90.0" to 89.0"

**Notes:** Engine ratings: 620 HP (PA-31T and PA-31T2); 500 HP (PA-31T1)

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** -10.0 +/-0.5  
**Low Pitch Angle:** 20.5 +/-0.1  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 85.8 +/-0.5  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:** WOODWARD

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>             | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>   |
|------------------|--------------------|--------------------------------|-----------------|----------------|---|
| PROPELLER        | E4N00133S          | HC-E4N-3N/D8990SB/D-5710-4P    | 2               | A/C            | Prop with blades painted gray on camber   |
| PROPELLER        | E4N00133SKD        | HC-E4N-3N/D8990SB/D-5710-4P    | 2               | A/C            | Prop with blades painted gray on camber   |
| PROPELLER        | E4N00137S          | HC-E4N-3N/D8990SB[*1/D-5710-4P | 2               | A/C            | Prop with blades painted black on camber  |
| BLADE            | D8990S             | PCP:BLADE UNIT, ALUMINUM       | 0               |                | De-Ice boot must be installed on blade for the prop to conform to the aircraft Type Certificate |
| BLADE            | D8990SB            | PCP:BLADE UNIT, ALUM [1,1,1]   | 4               | Prop           | Blade painted gray on camber, black on face   |
| BLADE            | D8990SB*1          | PCP:BLADE UNIT, ALUM [3,1,1]   | 4               | Prop           | Blade painted black on camber and face  |
| SPINNER          | D-5710-4           | SPINNER ASSEMBLY               | 1               | Prop           |   |
| SPINNER          | D-5710-4P          | SPINNER ASSEMBLY               | 1               | Prop           |   |
| SPIN MTG KIT     | A-2070-7           | SCREW, 1/4-28, BUTTON HEAD     | 8               | Prop           |   |
| COUNTERWEIGHT    | C-472-3            | PCP:COUNTERWEIGHT              | 1               | Blade          |   |
| DE-ICER          | 4H1601-10          | DE-ICE BOOT                    | 1               | Blade          |   |
| DE-ICE KIT PR    | 7931-5E2729-1      | DE-ICE KIT (ONE PROP)          | 1               | Prop           |   |
| MTG BOLT/STUD    | B-3339-1           | BOLT,MOUNTING,9/16-18,12 POINT | 8               | Prop           |   |
| MISC ACCES       | A-3044             | BLOCK, BETA FEEDBACK- ASSEMBLY | 1               | Prop           |   |
| OVERHAUL KIT     | HC-E4N-3N-OH       | O/H KIT                        | 1               | Prop           | For aftermarket use only  |

# HARTZELL

## APPLICATION GUIDE 159

**PIPER**

**Model:** PA-31T, PA-31T1  
**Trade Name:** CHEYENNE  
**Aircraft T.C./STC:** STC-SA01248SE  
**Propeller Model:** HC-E4N-3N  
**Propeller T.C.:** P10NE

**Blade Model(s):** D8990S  
 D8990SB  
 D8990SB\*1  
**Prop Diameter:** 90.0" to 89.0"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** -10.0 +-0.5  
**Low Pitch Angle:** 20.5 +-0.1  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**IDS No.:** 2836      **Rev.:** 3      **IC Date:** 01/22/2016  
**Modifier:** Blackhawk Modifications, Inc.  
**Engine Model:** PT6A-11, -28  
**Power:** 620 HP @ 2200 RPM  
**Placard/Restr:** "Stabilized ground operation is prohibited between 500 and 1070 RPM. The propeller may be operated feathered at or below 500 RPM."  
**Notes:** PT6A-11 (500 HP) used on PA-31T1;  
 PT6A-28 (620 HP) used on PA31T

**Startlock Angle:** NA  
**Feather/High Angle:** 85.8 +-0.5  
**Cwt Angle:**

**Non-HPI Governor:** WOODWARD

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>             | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>   |
|------------------|--------------------|--------------------------------|-----------------|----------------|---|
| PROPELLER        | E4N00133S          | HC-E4N-3N/D8990SB/D-5710-4P    | 2               | A/C            |   |
| PROPELLER        | E4N00133SKD        | HC-E4N-3N/D8990SB/D-5710-4P    | 2               | A/C            | Prop with blades painted gray on camber   |
| PROPELLER        | E4N00137S          | HC-E4N-3N/D8990SB[*1/D-5710-4P | 2               | A/C            |   |
| BLADE            | D8990S             | PCP:BLADE UNIT, ALUMINUM       | 0               |                | De-Ice boot must be installed on blade for the prop to conform to the aircraft Type Certificate |
| BLADE            | D8990SB            | PCP:BLADE UNIT, ALUM [1,1,1]   | 4               | Prop           |   |
| BLADE            | D8990SB*1          | PCP:BLADE UNIT, ALUM [3,1,1]   | 4               | Prop           |   |
| SPINNER          | D-5710-4           | SPINNER ASSEMBLY               | 1               | Prop           |   |
| SPINNER          | D-5710-4P          | SPINNER ASSEMBLY               | 1               | Prop           |   |
| SPIN MTG KIT     | A-2070-7           | SCREW, 1/4-28, BUTTON HEAD     | 8               | Prop           |   |
| COUNTERWEIGHT    | C-472-3            | PCP:COUNTERWEIGHT              | 1               | Blade          |   |
| DE-ICER          | 4H1601-10          | DE-ICE BOOT                    | 1               | Blade          | Supersedes 7931-4E1601-10   |
| DE-ICE KIT PR    | 7931-5E2729-1      | DE-ICE KIT (ONE PROP)          | 1               | Prop           |   |
| MTG BOLT/STUD    | B-3339-1           | BOLT,MOUNTING,9/16-18,12 POINT | 8               | Prop           |   |
| MISC ACCES       | A-3044             | BLOCK, BETA FEEDBACK- ASSEMBLY | 1               | Prop           |   |
| OVERHAUL KIT     | HC-E4N-3N-OH       | O/H KIT                        | 1               | Prop           | For aftermarket use only  |

# HARTZELL

## APPLICATION GUIDE

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PIPER

IDS No.: 827      Rev.: 1      IC      Date: 07/07/2015

**Model:** PA-32-260  
**Trade Name:** CHEROKEE SIX 260  
**Aircraft T.C./STC:** A3SO  
**Propeller Model:** HC-C2YK-1( )F  
**Propeller T.C.:** P-920  
**Blade Model(s):** F8477-2  
**Prop Diameter:** 82" TO 80.5"

**Modifier:**  
**Engine Model:** O-540-E4B5  
**Power:** 260 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.0 +-0.2  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 32.0 +-2.0  
**Cwt Angle:**

### Non-HPI Items:

**Non-HPI Spinner:** PIPER

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>           | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>                 |
|------------------|--------------------|------------------------------|-----------------|----------------|---------------------------------|
| PROPELLER        | C2K00160           | HC-C2YK-1BF/F8477-2          | 1               | A/C            |                                 |
| BLADE            | F8477-2            | PCP:BLADE UNIT, ALUM [1,1,1] | 2               | Prop           |                                 |
| GOVERNOR         | F4-11              | GOVERNOR ASSEMBLY, F-4-( )   | 1               | A/C            | Wide deck "A" engine S/N suffix |
| GOVERNOR         | F4-4               | IDS Item                     | 1               | A/C            |                                 |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20       | 6               | Prop           |                                 |
| OVERHAUL KIT     | HC-C2YK-1BF-OH     | O/H KIT                      | 1               | Prop           | For aftermarket use only        |

# HARTZELL

## APPLICATION GUIDE

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PIPER

IDS No.: 1593      Rev.: 3      IC      Date: 07/16/2015

**Model:** PA-32-260  
**Trade Name:** CHEROKEE SIX 260  
**Aircraft T.C./STC:** STC-SA1105CH  
**Propeller Model:** HC-C3YR-1RF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** F7693F  
                           F7693F\*1  
                           F7693F\*2  
**Prop Diameter:** 78" TO 77"

**Modifier:** HARTZELL PROPELLER  
**Engine Model:** O-540-E4B5  
**Power:** 260 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 10.7 +-0.2  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 31.0 +-1.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <b>Item Type</b> | <b>Item Number</b> | <b>Description</b>           | <b>Quantity</b> | <b>Qty Per</b> | <b>Comments</b>          |
|------------------|--------------------|------------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | C3R00031           | HC-C3YR-1RF/F7693F[*2]/SM23  | 1               | A/C            |                          |
| PROPELLER        | C3R00031KD         | HC-C3YR-1RF/F7693F[*2]/SM23  | 1               | A/C            |                          |
| PROPELLER        | C3R00031SKDTP      | C3R00031/SM23/C-3535-1P      | 1               | A/C            |                          |
| PROPELLER        | C3R00031STP        | C3R00031/SM23/C-3535-1P      | 1               | A/C            |                          |
| BLADE            | F7693F             | PCP:BLADE UNIT, ALUM [1,1,1] | 3               | Prop           | Superseded by F7693F*2   |
| BLADE            | F7693F*1           | PCP:BLADE UNIT, ALUM [3,1,1] | 3               | Prop           |                          |
| BLADE            | F7693F*2           | PCP:BLADE UNIT, ALUM [6,1,1] | 3               | Prop           | Supersedes F7693F        |
| SPINNER          | C-3535-1           | SPINNER ASSEMBLY             | 1               | Prop           |                          |
| SPINNER          | C-3535-1P          | SPINNER ASSEMBLY             | 1               | Prop           |                          |
| SPIN MTG KIT     | A-2476-23          | SPINNER - MTG KIT            | 1               | Prop           |                          |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20       | 6               | Prop           |                          |
| OVERHAUL KIT     | HC-C3YR-1RF-OH     | O/H KIT                      | 1               | Prop           | For aftermarket use only |

# HARTZELL

## APPLICATION GUIDE

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**PIPER**

**Model:** PA-32-300, PA-32S-300  
**Trade Name:** CHEROKEE SIX 300  
**Aircraft T.C./STC:** A3SO

**Propeller Model:** HC-C2YK-1BF  
**Propeller T.C.:** P-920  
**Blade Model(s):** F8475D-4  
**Prop Diameter:** 80.0" TO 78.5"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.5 +-0.2  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:** PIPER

**Hartzell Approved Items:**

| Item Type     | Item Number    | Description                  | Quantity | Qty Per | Comments                       |
|---------------|----------------|------------------------------|----------|---------|--------------------------------|
| PROPELLER     | C2K00130       | HC-C2YK-1BF/F8475D-4         | 1        | A/C     |                                |
| BLADE         | F8475D-4       | PCP:BLADE UNIT, ALUM [1,1,1] | 2        | Prop    |                                |
| GOVERNOR      | F4-11          | GOVERNOR ASSEMBLY, F-4-( )   | 1        | A/C     | Wide deck "A" engine S/N sufx  |
| GOVERNOR      | F4-11Z         | GOVERNOR ASSEMBLY, F-4-( )   | 1        | A/C     | Wide deck "A" engine S/N sufx  |
| GOVERNOR      | F4-4A          | GOVERNOR ASSEMBLY, F-4-( )   | 1        | A/C     | Nar deck non A engine S/N sufx |
| GOVERNOR      | F4-4AZ         | GOVERNOR ASSEMBLY, F-4-( )   | 1        | A/C     | Nar deck non A engine S/N sufx |
| MTG BOLT/STUD | A-2067         | STUD, MOUNTING, 1/2-20       | 6        | Prop    |                                |
| OVERHAUL KIT  | HC-C2YK-1BF-OH | O/H KIT                      | 1        | Prop    | For aftermarket use only       |

**IDS No.:** 829      **Rev.:** 1      **IC Date:** 07/07/2015

**Modifier:**  
**Engine Model:** IO-540-K1A5, -K1G5 (-K1A5 ONLY, -32S-300)

**Power:** 300 HP @ 2700 RPM

**Placard/Restr:**

**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 34.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

**PIPER**

**Model:** PA-32-300, PA-32S-300  
**Trade Name:** CHEROKEE SIX 300  
**Aircraft T.C./STC:** A3SO

**Propeller Model:** HC-C2YK-1( )F  
**Propeller T.C.:** P-920  
**Blade Model(s):** F8475R  
**Prop Diameter:** 84" TO 82.3"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.4 +-0.2  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:** PIPER

**Hartzell Approved Items:**

| Item Type     | Item Number | Description                | Quantity | Qty Per | Comments                      |
|---------------|-------------|----------------------------|----------|---------|-------------------------------|
| BLADE         | F8475R      | PCP:BLADE UNIT, ALUMINUM   | 2        | Prop    |                               |
| GOVERNOR      | F4-11       | GOVERNOR ASSEMBLY, F-4-( ) | 1        | A/C     | Wide deck "A" engine S/N sufx |
| GOVERNOR      | F4-4        | IDS Item                   | 1        | A/C     |                               |
| MTG BOLT/STUD | A-2067      | STUD, MOUNTING, 1/2-20     | 6        | Prop    |                               |

**IDS No.:** 828      **Rev.:** -      **DM Date:** 10/01/1992

**Modifier:**  
**Engine Model:** IO-540-K1A5, -K1G5  
**Power:** 300 HP @ 2700 RPM

**Placard/Restr:**

**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 29.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

# HARTZELL

## APPLICATION GUIDE

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PIPER

**Model:** PA-32-300, PA-32S-300  
**Trade Name:** CHEROKEE SIX 300  
**Aircraft T.C./STC:** A3SO

**Propeller Model:** HC-C2YK-1BF  
**Propeller T.C.:** P-920  
**Blade Model(s):** F8475R  
**Prop Diameter:** 84.0" TO 82.3"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.4 +-0.2  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:** PIPER

**Hartzell Approved Items:**

| Item Type     | Item Number | Description                | Quantity | Qty Per | Comments                      |
|---------------|-------------|----------------------------|----------|---------|-------------------------------|
| BLADE         | F8475R      | PCP:BLADE UNIT, ALUMINUM   | 2        | Prop    |                               |
| GOVERNOR      | F4-11       | GOVERNOR ASSEMBLY, F-4-(-) | 1        | A/C     | Wide deck "A" engine S/N sufx |
| GOVERNOR      | F4-4        | IDS Item                   | 1        | A/C     |                               |
| MTG BOLT/STUD | A-2067      | STUD, MOUNTING, 1/2-20     | 6        | Prop    |                               |

**IDS No.:** 1318      **Rev.:** -      **DM Date:** 03/17/1996

**Modifier:**  
**Engine Model:** IO-540-K1A5, -K1G5 (-K1A5 ONLY, -32S-300)

**Power:** 300 HP @ 2700 RPM  
**Placard/Restr:**

**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 29.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

PIPER

**Model:** PA-32R-301, PA-32-301FT  
**Trade Name:** SARATOGA II HP, PIPER 6X  
**Aircraft T.C./STC:** STC SA02256CH  
**Propeller Model:** HC-I3YR-1RF  
**Propeller T.C.:** P33EA  
**Blade Model(s):** F7693F  
 F7693F\*2  
**Prop Diameter:** 78

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** 12.4 +-0.2  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number    | Description                  | Quantity | Qty Per | Comments                 |
|---------------|----------------|------------------------------|----------|---------|--------------------------|
| PROPELLER     | I3R00114       | HC-I3YR-1RF/F7693F[*2]/SM25  | 1        | A/C     |                          |
| PROPELLER     | I3R00114KD     | HC-I3YR-1RF/F7693F[*2]/SM25  | 1        | A/C     |                          |
| BLADE         | F7693F         | PCP:BLADE UNIT, ALUM [1,1,1] | 3        | Prop    | Superseded by F7693F*2   |
| BLADE         | F7693F*2       | PCP:BLADE UNIT, ALUM [6,1,1] | 3        | Prop    |                          |
| SPINNER       | C-3575-1P      | SPINNER ASSEMBLY             | 1        | Prop    |                          |
| SPINNER       | C-3575-2P      | SPINNER ASSEMBLY             | 1        | Prop    |                          |
| GOVERNOR      | V5-4           | GOVERNOR ASSEMBLY, V-5-(-)   | 1        | A/C     |                          |
| SPIN MTG KIT  | A-2476-25      | SPINNER - MTG KIT            | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2067         | STUD, MOUNTING, 1/2-20       | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-I3YR-1RF-OH | O/H KIT                      | 1        | Prop    | For aftermarket use only |

**IDS No.:** 2620      **Rev.:** 3      **IC Date:** 07/16/2015

**Modifier:** PROFESSIONAL PILOTS INC.  
**Engine Model:** IO-540-K1G5(D)

**Power:** 300 HP @ 2700 RPM  
**Placard/Restr:**

**Notes:**

**Startlock Angle:**  
**Feather/High Angle:** 32.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**



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**PIPER**

**Model:** PA-32-301  
**Trade Name:** SARATOGA  
**Aircraft T.C./STC:** A3SO  
**Propeller Model:** HC-C3YR-1( )F  
**Propeller T.C.:** P25EA  
**Blade Model(s):** F7663R  
**Prop Diameter:** 78" TO 76"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.4 +-0.2  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number | Description                  | Quantity | Qty Per | Comments |
|---------------|-------------|------------------------------|----------|---------|----------|
| BLADE         | F7663R      | PCP:BLADE UNIT, ALUM [1,1,1] | 3        | Prop    |          |
| SPINNER       | 835-47      | SPINNER ASSEMBLY             | 1        | Prop    |          |
| GOVERNOR      | F4-11B      | GOVERNOR ASSEMBLY, F-4( )    | 1        | A/C     |          |
| MTG BOLT/STUD | A-2067      | STUD, MOUNTING, 1/2-20       | 6        | Prop    |          |

**IDS No.:** 834      **Rev.:** -      **DM Date:** 01/26/2005

**Modifier:**  
**Engine Model:** IO-540-K1G5  
**Power:** 300 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 32.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

**PIPER**

**Model:** PA-32-301  
**Trade Name:** SARATOGA  
**Aircraft T.C./STC:** A3SO  
**Propeller Model:** HC-C2YR-1( )F  
**Propeller T.C.:** P-920  
**Blade Model(s):** F8475D-4  
**Prop Diameter:** 80.0" TO 78.5"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.5 +-0.2  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:** PIPER

**Hartzell Approved Items:**

| Item Type     | Item Number    | Description                  | Quantity | Qty Per | Comments                 |
|---------------|----------------|------------------------------|----------|---------|--------------------------|
| PROPELLER     | C2R00060       | HC-C2YR-1BF/F8475D-4         | 1        | A/C     |                          |
| BLADE         | F8475D-4       | PCP:BLADE UNIT, ALUM [1,1,1] | 2        | Prop    |                          |
| GOVERNOR      | F4-11B         | GOVERNOR ASSEMBLY, F-4( )    | 1        | A/C     | Primary                  |
| GOVERNOR      | F4-11BZ        | GOVERNOR ASSEMBLY, F-4( )    | 1        | A/C     | Secondary                |
| MTG BOLT/STUD | A-2067         | STUD, MOUNTING, 1/2-20       | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-C2YR-1BF-OH | O/H KIT                      | 1        | Prop    | For aftermarket use only |

**IDS No.:** 833      **Rev.:** 1      **IC Date:** 07/07/2015

**Modifier:**  
**Engine Model:** IO-540-K1G5  
**Power:** 300 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:** "K" Flange approved.

**Startlock Angle:** NA  
**Feather/High Angle:** 34.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

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PIPER

IDS No.: 838      Rev.: -      DM Date: 10/01/1992

**Model:** PA-32-301T  
**Trade Name:** TURBO SARATOGA  
**Aircraft T.C./STC:** A3SO  
**Propeller Model:** HC-E2YR-1( )F  
**Propeller T.C.:** P9EA  
**Blade Model(s):** F8477-4  
**Prop Diameter:** 80" TO 78.5"

**Modifier:**  
**Engine Model:** TIO-540-S1AD  
**Power:** 300 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 15.6 +-0.2  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 34.0 +-1.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>           | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|------------------------------|-----------------|----------------|-----------------|
| BLADE            | F8477-4            | PCP:BLADE UNIT, ALUM [1,1,1] | 2               | Prop           |                 |
| SPINNER          | A-2298-2           | SPINNER ASSEMBLY             | 1               | Prop           |                 |
| GOVERNOR         | F4-11B             | GOVERNOR ASSEMBLY, F-4-( )   | 1               | A/C            |                 |
| GOVERNOR         | F4-11BZ            | GOVERNOR ASSEMBLY, F-4-( )   | 1               | A/C            |                 |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20       | 6               | Prop           |                 |

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PIPER

**Model:** PA-32(R,S,RT)-300/PA-32(-,R)-301

**Trade Name:** CHEROKEE SIX, LANCE,  
SARATOGA

**Aircraft T.C./STC:** STC SA02256CH

**Propeller Model:** HC-C3YR-1RF

**Propeller T.C.:** P25EA

**Blade Model(s):** F7693F  
F7693F\*1  
F7693F\*2

**Prop Diameter:** 78"

**Prop Setup:**

**Ref. Radius:** 30

**Reverse Angle:**

**Low Pitch Angle:** 12.4 +-0.2

**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

**IDS No.:** 2451

**Rev.:** 4

**IC Date:** 07/16/2015

**Modifier:** PROFESSIONAL PILOTS, INC

**Engine Model:** IO-540-K1A5(D), -K1G5(D)

**Power:** 300 HP @ 2700 RPM

**Placard/Restr:**

**Notes:** A-2476-23 to be used with C-3535-1(P)  
Spinner only.

**Startlock Angle:**

**Feather/High Angle:** 32.0 +-1.0

**Cwt Angle:**

**Non-HPI Governor:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>           | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>               |
|------------------|--------------------|------------------------------|-----------------|----------------|-------------------------------|
| PROPELLER        | C3R01300           | HC-C3YR-1RF/F7693F[*2]/SM23  | 1               | A/C            | Uses C-3535-1(P) Spinner Assy |
| PROPELLER        | C3R01300KD         | HC-C3YR-1RF/F7693F[*2]/SM23  | 1               | A/C            | Uses C-3535-1(P) Spinner Assy |
| PROPELLER        | C3R01302           | HC-C3YR-1RF/F7693F[*1]/SM23  | 1               | A/C            | Uses C-3535-1(P) Spinner Assy |
| PROPELLER        | C3R01305           | HC-C3YR-1RF/F7693F[*2]       | 1               | A/C            | Uses 835-47(P) spinner        |
| PROPELLER        | C3R01305KD         | HC-C3YR-1RF/F7693F[*2]       | 1               | A/C            | Uses 835-47(P) spinner        |
| BLADE            | F7693F             | PCP:BLADE UNIT, ALUM [1,1,1] | 3               | Prop           | Superseded by F7693F*2        |
| BLADE            | F7693F*1           | PCP:BLADE UNIT, ALUM [3,1,1] | 3               | Prop           |                               |
| BLADE            | F7693F*2           | PCP:BLADE UNIT, ALUM [6,1,1] | 3               | Prop           | Supersedes F7693F             |
| SPINNER          | 835-47             | SPINNER ASSEMBLY             | 1               | A/C            |                               |
| SPINNER          | 835-47P            | SPINNER ASSEMBLY             | 1               | A/C            |                               |
| SPINNER          | C-3535-1           | SPINNER ASSEMBLY             | 1               | A/C            |                               |
| SPINNER          | C-3535-1P          | SPINNER ASSEMBLY             | 1               | A/C            |                               |
| GOVERNOR         | F4-11B             | GOVERNOR ASSEMBLY, F-4-( )   | 1               | Prop           |                               |
| GOVERNOR         | F4-11BZ            | GOVERNOR ASSEMBLY, F-4-( )   | 1               | Prop           |                               |
| SPIN MTG KIT     | A-2476-23          | SPINNER - MTG KIT            | 1               | Prop           | Use with C-3535-1(P) only     |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20       | 6               | Prop           |                               |
| OVERHAUL KIT     | HC-C3YR-1RF-OH     | O/H KIT                      | 1               | Prop           | For aftermarket use only      |

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PIPER

**Model:** PA-32-301XTC  
**Trade Name:** 6XT  
**Aircraft T.C./STC:** A3SO  
**Propeller Model:** HC-I3YR-1RF  
**Propeller T.C.:** P33EA  
  
**Blade Model(s):** F7663DR  
**Prop Diameter:** 78.0"

**IDS No.:** 1976      **Rev.:** 1      **IC Date:** 07/16/2015

**Modifier:**  
**Engine Model:** TIO-540-AH1A  
**Power:** 300 HP @ 2500 RPM  
**Placard/Restr:** Do not operate above 26.0 Hg MAP below 2100 RPM  
  
**Notes:** Place decal "PS 50077-97" outboard of blade decals and overspray with CM129 Protective Spray

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 15.2 +-0.2  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 34.0 +-0.5  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>         | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|----------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | I3R00111           | HC-I3YR-1RF/F7663DR/SM25   | 1               | A/C            |                          |
| BLADE            | F7663DR            | PCP:BLADE UNIT, ALUMINUM   | 3               | Prop           |                          |
| SPINNER          | C-3575-1P          | SPINNER ASSEMBLY           | 1               | Prop           |                          |
| GOVERNOR         | V5-6               | GOVERNOR ASSEMBLY, V-5-( ) | 1               | A/C            |                          |
| SPIN MTG KIT     | A-2476-25          | SPINNER - MTG KIT          | 1               | Prop           |                          |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20     | 6               | Prop           |                          |
| OVERHAUL KIT     | HC-I3YR-1RF-OH     | O/H KIT                    | 1               | Prop           | For aftermarket use only |

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PIPER

IDS No.: 839 Rev.: 1 IC Date: 07/16/2015

**Model:** PA-32-301T  
**Trade Name:** TURBO SARATOGA  
**Aircraft T.C./STC:** A3SO  
**Propeller Model:** HC-E3YR-1( R)F  
**Propeller T.C.:** P33EA  
**Blade Model(s):** F7673DR  
 F7673DR\*1  
**Prop Diameter:** 78.0" TO 76.0"

**Modifier:**  
**Engine Model:** TIO-540-S1AD  
**Power:** 300 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.2 +-0.2  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 34.5 +-1.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type     | Item Number    | Description               | Quantity | Qty Per | Comments                 |
|---------------|----------------|---------------------------|----------|---------|--------------------------|
| PROPELLER     | E3R00008       | HC-E3YR-1RF/F7673DR/SM25  | 1        | A/C     |                          |
| PROPELLER     | E3R00008KD     | HC-E3YR-1RF/F7673DR/SM25  | 1        | A/C     |                          |
| BLADE         | F7673DR        | PCP:BLADE UNIT, ALUMINUM  | 3        | Prop    |                          |
| BLADE         | F7673DR*1      | IDS Item                  | 3        | Prop    |                          |
| SPINNER       | C-3575         | SPINNER ASSEMBLY          | 1        | Prop    |                          |
| SPINNER       | C-3575-1       | SPINNER ASSEMBLY          | 1        | Prop    | w/ De-ice                |
| GOVERNOR      | F4-11B         | GOVERNOR ASSEMBLY, F-4( ) | 1        | A/C     |                          |
| GOVERNOR      | F4-11BZ        | GOVERNOR ASSEMBLY, F-4( ) | 1        | A/C     |                          |
| SPIN MTG KIT  | A-2476-25      | SPINNER - MTG KIT         | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2067         | STUD, MOUNTING, 1/2-20    | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-E3YR-1RF-OH | O/H KIT                   | 1        | Prop    | For aftermarket use only |

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**PIPER**

**Model:** PA-32R-301T  
**Trade Name:** TURBO SARATOGA SP  
**Aircraft T.C./STC:** A3SO  
**Propeller Model:** HC-E3YR-1( )F  
**Propeller T.C.:** P33EA  
**Blade Model(s):** F7673DR  
**Prop Diameter:** 78.0" TO 76.0"

**IDS No.:** 840      **Rev.:** -      **DM Date:** 01/26/2005

**Modifier:**  
**Engine Model:** TIO-540-S1AD  
**Power:** 300 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.2 +-0.2  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 34.5 +-1.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type     | Item Number | Description               | Quantity | Qty Per | Comments |
|---------------|-------------|---------------------------|----------|---------|----------|
| BLADE         | F7673DR     | PCP:BLADE UNIT, ALUMINUM  | 3        | Prop    |          |
| SPINNER       | C-3575      | SPINNER ASSEMBLY          | 1        | Prop    |          |
| SPINNER       | C-3575-P    | SPINNER ASSEMBLY          | 1        | Prop    |          |
| GOVERNOR      | F4-11B      | GOVERNOR ASSEMBLY, F-4( ) | 1        | A/C     |          |
| GOVERNOR      | F4-11BZ     | GOVERNOR ASSEMBLY, F-4( ) | 1        | A/C     |          |
| SPIN MTG KIT  | A-2476-25   | SPINNER - MTG KIT         | 1        | Prop    |          |
| MTG BOLT/STUD | A-2067      | STUD, MOUNTING, 1/2-20    | 6        | Prop    |          |

**PIPER**

**Model:** PA-32-301FT  
**Trade Name:** 6X  
**Aircraft T.C./STC:** A3SO  
**Propeller Model:** HC-I3YR-1RF  
**Propeller T.C.:** P33EA  
  
**Blade Model(s):** F7663DR  
**Prop Diameter:** 78.0" TO 77.0"

**IDS No.:** 1975      **Rev.:** 1      **IC Date:** 07/16/2015

**Modifier:**  
**Engine Model:** IO-540-K1G5  
**Power:** 300 HP @ 2700 RPM  
**Placard/Restr:** Do not exceed 23 inches of manifold pressure below 2100 RPM.  
**Notes:** Place decal "PS 50077-89" outboard of blade decals and overspray with CM129 Protective Spray

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.4 +-0.2  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 32.0 +-1.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type     | Item Number    | Description               | Quantity | Qty Per | Comments                 |
|---------------|----------------|---------------------------|----------|---------|--------------------------|
| PROPELLER     | I3R00110       | HC-I3YR-1RF/F7663DR/SM25  | 1        | A/C     |                          |
| BLADE         | F7663DR        | PCP:BLADE UNIT, ALUMINUM  | 3        | Prop    |                          |
| SPINNER       | C-3575-1P      | SPINNER ASSEMBLY          | 1        | Prop    |                          |
| GOVERNOR      | V5-4           | GOVERNOR ASSEMBLY, V-5( ) | 1        | A/C     |                          |
| SPIN MTG KIT  | A-2476-25      | SPINNER - MTG KIT         | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2067         | STUD, MOUNTING, 1/2-20    | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-I3YR-1RF-OH | O/H KIT                   | 1        | Prop    | For aftermarket use only |

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**PIPER**

**Model:** PA-32R-300, PA-32RT-300

**Trade Name:** LANCE, LANCE II

**Aircraft T.C./STC:** A3SO

**Propeller Model:** HC-C2YK-1BF

**Propeller T.C.:** P-920

**Blade Model(s):** F8475D-4

**Prop Diameter:** 80.0" TO 78.5"

**Prop Setup:**

**Ref. Radius:** 30

**Reverse Angle:** NA

**Low Pitch Angle:** 13.5 +-0.2

**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:** PIPER

**IDS No.:** 830

**Rev.:** 1

**IC Date:** 07/07/2015

**Modifier:**

**Engine Model:** IO-540-K1A5D, -K1G5D (-K1A5D ONLY, -32R-300)

**Power:** 300 HP @ 2700 RPM

**Placard/Restr:**

**Notes:**

**Startlock Angle:** NA

**Feather/High Angle:** 34.0 +-1.0

**Cwt Angle:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type     | Item Number    | Description                  | Quantity | Qty Per | Comments                 |
|---------------|----------------|------------------------------|----------|---------|--------------------------|
| PROPELLER     | C2K00130       | HC-C2YK-1BF/F8475D-4         | 1        | A/C     |                          |
| BLADE         | F8475D-4       | PCP:BLADE UNIT, ALUM [1,1,1] | 2        | Prop    |                          |
| GOVERNOR      | F4-11B         | GOVERNOR ASSEMBLY, F-4-( )   | 1        | A/C     |                          |
| GOVERNOR      | F4-11BZ        | GOVERNOR ASSEMBLY, F-4-( )   | 1        | A/C     |                          |
| MTG BOLT/STUD | A-2067         | STUD, MOUNTING, 1/2-20       | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-C2YK-1BF-OH | O/H KIT                      | 1        | Prop    | For aftermarket use only |

**PIPER**

**Model:** PA-32RT-300T

**Trade Name:** TURBO LANCE II

**Aircraft T.C./STC:** A3SO

**Propeller Model:** HC-E2YR-1( )F

**Propeller T.C.:** P9EA

**Blade Model(s):** F8477-4

**Prop Diameter:** 80" TO 78.5"

**Prop Setup:**

**Ref. Radius:** 30

**Reverse Angle:** NA

**Low Pitch Angle:** 15.6 +-0.2

**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**IDS No.:** 831

**Rev.:** 2

**IC Date:** 07/07/2015

**Modifier:**

**Engine Model:** TIO-540-S1AD

**Power:** 300 HP @ 2700 RPM

**Placard/Restr:**

**Notes:**

**Startlock Angle:** NA

**Feather/High Angle:** 34.0 +-1.0

**Cwt Angle:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type     | Item Number    | Description                  | Quantity | Qty Per | Comments                 |
|---------------|----------------|------------------------------|----------|---------|--------------------------|
| PROPELLER     | E2R00060       | HC-E2YR-1BF/F8477-4          | 1        | A/C     |                          |
| BLADE         | F8477-4        | PCP:BLADE UNIT, ALUM [1,1,1] | 2        | Prop    |                          |
| SPINNER       | A-2298-2       | SPINNER ASSEMBLY             | 1        | Prop    |                          |
| GOVERNOR      | F4-11B         | GOVERNOR ASSEMBLY, F-4-( )   | 1        | A/C     |                          |
| SPIN MTG KIT  | A-2476-19      | SPINNER - MTG KIT            | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2067         | STUD, MOUNTING, 1/2-20       | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-E2YR-1BF-OH | O/H KIT                      | 1        | Prop    | For aftermarket use only |

# HARTZELL

## APPLICATION GUIDE

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PIPER

IDS No.: 835 Rev.: - DM Date: 01/26/2005

Model: PA-32R-301  
Trade Name: SARATOGA SP  
Aircraft T.C./STC: A3SO  
Propeller Model: HC-C3YR-1( )F  
Propeller T.C.: P25EA  
Blade Model(s): F7663R  
Prop Diameter: 78" TO 76"

Modifier:  
Engine Model: IO-540-K1G5D  
Power: 300 HP @ 2700 RPM  
Placard/Restr:  
Notes:

### Prop Setup:

Ref. Radius: 30  
Reverse Angle: NA  
Low Pitch Angle: 12.4 +-0.2  
Stud Protrusion

Startlock Angle: NA  
Feather/High Angle: 32.0 +-1.0  
Cwt Angle:

### Non-HPI Items:

Non-HPI Spinner:

Non-HPI Governor:

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>           | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|------------------------------|-----------------|----------------|-----------------|
| BLADE            | F7663R             | PCP:BLADE UNIT, ALUM [1,1,1] | 3               | Prop           |                 |
| SPINNER          | 835-47             | SPINNER ASSEMBLY             | 1               | Prop           |                 |
| GOVERNOR         | F4-11B             | GOVERNOR ASSEMBLY, F-4( )    | 1               | A/C            |                 |
| GOVERNOR         | F4-11BZ            | GOVERNOR ASSEMBLY, F-4( )    | 1               | A/C            |                 |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20       | 6               | Prop           |                 |



# HARTZELL

## APPLICATION GUIDE

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PIPER

IDS No.: 837      Rev.: 2      IC      Date: 01/18/2016

**Model:** PA-32R-301  
**Trade Name:** SARATOGA II HP  
**Aircraft T.C./STC:** A3SO  
**Propeller Model:** HC-I3YR-1RF  
**Propeller T.C.:** P33EA  
  
**Blade Model(s):** F7663DR  
 F7663DRB  
**Prop Diameter:** 78.0" TO 77.0"

**Modifier:**  
**Engine Model:** IO-540-K1G5  
**Power:** 300 HP @ 2700 RPM  
**Placard/Restr:** Do not exceed 23 inches of manifold pressure below 2100 RPM.  
  
**Notes:** For Anti-Ice Props, place decal "PS50077-110" on blade camber near hub and overspray with CM129 Protective Spray. For Non Anti-Ice Props, place decal "PS 50077-89" on blade camber near hub and overspray with CM129 Protective Spray; \*Hub clamping bolts which hold TKS brackets in place, must be installed with the head of the bolt on the engine side of hub on smooth forged hubs.

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.4 +-0.2  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 32.0 +-1.0  
**Cwt Angle:** NA

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>             | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|--------------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | I3R00100           | HC-I3YR-1RF/F7663DRB/SM25/BULK | 1               | A/C            |                          |
| PROPELLER        | I3R00100KD         | HC-I3YR-1RF/F7663DRB/SM25/BULK | 1               | A/C            |                          |
| PROPELLER        | I3R00101           | HC-I3YR-1RF/F7663DRB/SM25      | 1               | A/C            |                          |
| PROPELLER        | I3R00110           | HC-I3YR-1RF/F7663DR/SM25       | 1               | A/C            |                          |
| PROPELLER        | I3R00110KD         | HC-I3YR-1RF/F7663DR/SM25       | 1               | A/C            |                          |
| BLADE            | F7663DR            | PCP:BLADE UNIT, ALUMINUM       | 3               | Prop           |                          |
| BLADE            | F7663DRB           | PCP:BLADE UNIT, ALUMINUM       | 3               | Prop           |                          |
| SPINNER          | C-3575-1P          | SPINNER ASSEMBLY               | 1               | Prop           |                          |
| SPINNER          | C-3575-2           | SPINNER ASSEMBLY               | 1               | Prop           |                          |
| SPINNER          | C-3575-2P          | SPINNER ASSEMBLY               | 1               | Prop           |                          |
| GOVERNOR         | V5-4               | GOVERNOR ASSEMBLY, V-5-( )     | 1               | A/C            |                          |
| SPIN MTG KIT     | A-2476-25          | SPINNER - MTG KIT              | 1               | Prop           |                          |
| DE-ICER          | C-2131-12          | BOOT, ANTI-ICING               | 1               | Blade          |                          |
| DE-ICE KIT PR    | 7931-12751-38      | ANTI-ICE KIT (ONE PROP)        | 1               | Prop           |                          |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20         | 6               | Prop           |                          |
| MISC ACCES       | C-3532-16PKIT      | POLISHED DOME / MTG HDW        | 1               | Prop           |                          |
| OVERHAUL KIT     | HC-I3YR-1RF-OH     | O/H KIT                        | 1               | Prop           | For aftermarket use only |

# HARTZELL

## APPLICATION GUIDE

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**PIPER**

**Model:** PA-32R-301  
**Trade Name:** SARATOGA SP  
**Aircraft T.C./STC:** A3SO  
**Propeller Model:** HC-C2YR-1()  
**Propeller T.C.:**  
**Blade Model(s):** F8475D-4  
**Prop Diameter:** 80.0" TO 78.5"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.5 +-0.2  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number | Description                  | Quantity | Qty Per | Comments |
|---------------|-------------|------------------------------|----------|---------|----------|
| BLADE         | F8475D-4    | PCP:BLADE UNIT, ALUM [1,1,1] | 2        | Prop    |          |
| SPINNER       | A-2298-2    | SPINNER ASSEMBLY             | 1        | Prop    |          |
| GOVERNOR      | F4-11B      | GOVERNOR ASSEMBLY, F-4-()    | 1        | A/C     |          |
| GOVERNOR      | F4-11BZ     | GOVERNOR ASSEMBLY, F-4-()    | 1        | A/C     |          |
| MTG BOLT/STUD | A-2067      | STUD, MOUNTING, 1/2-20       | 6        | Prop    |          |

**IDS No.:** 836      **Rev.:** -      **DM Date:** 10/01/1992

**Modifier:**  
**Engine Model:** IO-540-K1G5D  
**Power:** 300 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:** "K" Flange approved.

**Startlock Angle:** NA  
**Feather/High Angle:** 34.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

**PIPER**

**Model:** PA-32R-301T  
**Trade Name:** TURBO SARATOGA SP  
**Aircraft T.C./STC:** A3SO  
**Propeller Model:** HC-E2YR-1()F  
**Propeller T.C.:** P9EA  
**Blade Model(s):** F8477-4  
**Prop Diameter:** 80" TO 78.5"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 15.6 +-0.2  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number | Description                  | Quantity | Qty Per | Comments |
|---------------|-------------|------------------------------|----------|---------|----------|
| BLADE         | F8477-4     | PCP:BLADE UNIT, ALUM [1,1,1] | 2        | Prop    |          |
| SPINNER       | A-2298-2    | SPINNER ASSEMBLY             | 1        | Prop    |          |
| GOVERNOR      | F4-11B      | GOVERNOR ASSEMBLY, F-4-()    | 1        | A/C     |          |
| GOVERNOR      | F4-11BZ     | GOVERNOR ASSEMBLY, F-4-()    | 1        | A/C     |          |
| MTG BOLT/STUD | A-2067      | STUD, MOUNTING, 1/2-20       | 6        | Prop    |          |

**IDS No.:** 841      **Rev.:** -      **DM Date:** 10/01/1992

**Modifier:**  
**Engine Model:** TIO-540-S1AD  
**Power:** 300 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 34.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

# HARTZELL

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PIPER

IDS No.: 1248      Rev.: 2      IC      Date: 04/28/2021

**Model:** PA-32R-301T  
**Trade Name:** SARATOGA II TC  
**Aircraft T.C./STC:** A3SO  
**Propeller Model:** HC-I3YR-1RF  
**Propeller T.C.:** P33EA  
  
**Blade Model(s):** F7663DR  
 F7663DRB  
**Prop Diameter:** 78.0"

**Modifier:**  
**Engine Model:** TIO-540-AH1A  
**Power:** 300 HP @ 2500 RPM  
**Placard/Restr:** Do not operate above 26 inches manifold pressure below 2100 RPM.  
  
**Notes:** For Anti-Ice Props, place decal "PS50077-111" outboard of blade decals and overspray with CM129 Protective Spray. For Non Anti-Iced Props, place decal "PS 50077-97" outboard of blade decals and overspray with CM129 Protective Spray; \*Hub clamping bolts which hold TKS brackets in place, must be installed with the head of the bolt on the engine side of hub on smooth forged hubs.

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 15.2 +-0.2  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 34.0 +-0.5  
**Cwt Angle:** NA

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>             | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|--------------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | I3R00103           | HC-I3YR-1RF/F7663DRB/SM25/BULK | 1               | A/C            |                          |
| PROPELLER        | I3R00103KD         | HC-I3YR-1RF/F7663DRB/SM25/BULK | 1               | A/C            |                          |
| PROPELLER        | I3R00104           | HC-I3YR-1RF/F7663DRB/SM25      | 1               | A/C            |                          |
| PROPELLER        | I3R00104KD         | HC-I3YR-1RF/F7663DRB/SM25      | 1               | A/C            |                          |
| PROPELLER        | I3R00111           | HC-I3YR-1RF/F7663DR/SM25       | 1               | A/C            |                          |
| PROPELLER        | I3R00111KD         | HC-I3YR-1RF/F7663DR/SM25       | 1               | A/C            |                          |
| BLADE            | F7663DR            | PCP:BLADE UNIT, ALUMINUM       | 3               | Prop           |                          |
| BLADE            | F7663DRB           | PCP:BLADE UNIT, ALUMINUM       | 3               | Prop           |                          |
| SPINNER          | C-3575-1           | SPINNER ASSEMBLY               | 1               | Prop           |                          |
| SPINNER          | C-3575-1P          | SPINNER ASSEMBLY               | 1               | Prop           |                          |
| SPINNER          | C-3575-2           | SPINNER ASSEMBLY               | 1               | Prop           |                          |
| SPINNER          | C-3575-2P          | SPINNER ASSEMBLY               | 1               | Prop           |                          |
| GOVERNOR         | V5-6               | GOVERNOR ASSEMBLY, V-5-( )     | 1               | A/C            |                          |
| SPIN MTG KIT     | A-2476-25          | SPINNER - MTG KIT              | 1               | Prop           |                          |
| DE-ICER          | C-2131-12          | BOOT, ANTI-ICING               | 1               | Blade          |                          |
| DE-ICE KIT PR    | 7931-12751-38      | ANTI-ICE KIT (ONE PROP)        | 1               | Prop           |                          |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20         | 6               | Prop           |                          |
| MISC ACCES       | C-3532-16PKIT      | POLISHED DOME / MTG HDW        | 1               | Prop           |                          |
| OVERHAUL KIT     | HC-I3YR-1RF-OH     | O/H KIT                        | 1               | Prop           | For aftermarket use only |

# HARTZELL

## APPLICATION GUIDE

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**PIPER**

**IDS No.:** 1164      **Rev.:** 5      **IC Date:** 02/11/2016

**Model:** PA-32-300, -32R(T)-300  
**Trade Name:** LANCE, LANCE II  
**Aircraft T.C./STC:** STC-SA1791GL

**Modifier:** HARTZELL PROPELLER  
**Engine Model:** IO-540-K1A4, -K1G5 (PA-32R-300, IO-540-K1A5D, -K1G5D; PA-32RT-300, IO-540-K1G5D)

**Propeller Model:** HC-C3YR-1RF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** F7663R  
                           F7663R\*1  
                           F7663R\*2  
                           F7663R\*3

**Power:** 300 HP @ 2700 RPM

**Placard/Restr:**

**Notes:**

**Prop Diameter:** 78" TO 76"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.4 +-0.2  
**Stud Protrusion**

**Startlock Angle:** NA

**Feather/High Angle:** 32.0 +-1.0

**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>             | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>                               |
|------------------|--------------------|--------------------------------|-----------------|----------------|---|
| PROPELLER        | C3R00025           | HC-C3YR-1RF/F7663R             | 1               | A/C            |   |
| PROPELLER        | C3R00025KD         | HC-C3YR-1RF/F7663R             | 1               | A/C            |   |
| PROPELLER        | C3R01100           | HC-C3YR-1RF/F7663R[*2]         | 1               | A/C            |   |
| PROPELLER        | C3R01150           | HC-C3YR-1RF/F7663R[*3]         | 1               | A/C            |   |
| PROPELLER        | C3R01150KD         | HC-C3YR-1RF/F7663R[*3]         | 1               | A/C            |   |
| BLADE            | F7663R             | PCP:BLADE UNIT, ALUM [1,1,1]   | 3               | Prop           |   |
| BLADE            | F7663R*1           | IDS Item                       | 3               | Prop           |   |
| BLADE            | F7663R*2           | PCP:BLADE UNIT, ALUM [6,1,1]   | 3               | Prop           |   |
| BLADE            | F7663R*3           | PCP:BLADE UNIT, ALUM [6,16,11] | 3               | Prop           |   |
| SPINNER          | 103629             | SPINNER ASSEMBLY, COMPOSITE    | 1               | Prop           | Replaces 835-47( ). Primed.                   |
| SPINNER          | 103629F1           | SPINNER ASSEMBLY, COMPOSITE    | 1               | Prop           | Replaces 835-47( ). Matterhorn White.         |
| SPINNER          | 103629F2           | SPINNER ASSEMBLY, COMPOSITE    | 1               | Prop           | Replaces 835-47( ). Sterling Silver Metallic. |
| SPINNER          | 835-47             | SPINNER ASSEMBLY               | 1               | Prop           | Replaced by 103629( )                         |
| SPINNER          | 835-47P            | SPINNER ASSEMBLY               | 1               | Prop           | Replaced by 103629( )                         |
| GOVERNOR         | F4-11              | GOVERNOR ASSEMBLY, F-4-( )     | 1               | A/C            | PA-32-300 w/ "A" eng S/N sufx                 |
| GOVERNOR         | F4-11B             | GOVERNOR ASSEMBLY, F-4-( )     | 1               | A/C            | PA-32R-300 & PA-32RT-300                      |
| GOVERNOR         | F4-11BZ            | GOVERNOR ASSEMBLY, F-4-( )     | 1               | A/C            | PA-32R-300 & PA-32RT-300                      |
| GOVERNOR         | F4-11Z             | GOVERNOR ASSEMBLY, F-4-( )     | 1               | A/C            | PA-32-300 w/ "A" eng S/N sufx                 |
| GOVERNOR         | F4-4A              | GOVERNOR ASSEMBLY, F-4-( )     | 1               | A/C            | PA-32-300 w/ non-A eng S/N suf                |
| GOVERNOR         | F4-4AZ             | GOVERNOR ASSEMBLY, F-4-( )     | 1               | A/C            | PA-32-300 w/ non-A eng S/N suf                |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20         | 6               | Prop           |   |
| OVERHAUL KIT     | HC-C3YR-1RF-OH     | O/H KIT                        | 1               | Prop           | For aftermarket use only                      |

# HARTZELL

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PIPER

**Model:** PA-32-300, -32R(T)-300  
**Trade Name:** LANCE, LANCE II  
**Aircraft T.C./STC:** STC-SA1791GL

**Propeller Model:** HC-C3YR-1( )F  
**Propeller T.C.:** P25EA  
**Blade Model(s):** F7663R  
**Prop Diameter:** 78" TO 76"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.4 +-0.2  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number     | Description                  | Quantity | Qty Per | Comments |
|---------------|-----------------|------------------------------|----------|---------|----------|
| PROPELLER     | C3R00025SKDTP*1 | C3R00025/SM7/A-2295-1P       | 1        | A/C     |          |
| PROPELLER     | C3R00025STP*1   | C3R00025/SM7/A-2295-1P       | 1        | A/C     |          |
| BLADE         | F7663R          | PCP:BLADE UNIT, ALUM [1,1,1] | 3        | Prop    |          |
| SPINNER       | A-2295-1        | SPINNER ASSEMBLY             | 1        | Prop    |          |
| SPINNER       | A-2295-1P       | SPINNER ASSEMBLY             | 1        | Prop    |          |
| SPIN MTG KIT  | A-2476-7        | SPINNER - MTG KIT            | 1        | Prop    |          |
| MTG BOLT/STUD | A-2067          | STUD, MOUNTING, 1/2-20       | 6        | Prop    |          |

**IDS No.:** 2581      **Rev.:** 1      **BC Date:** 07/10/2014

**Modifier:** HARTZELL PROPELLER  
**Engine Model:** IO-540-K1A5, -K1G5 (PA-32R-300, IO-540-K1A5D, -K1G5D; PA-32RT-300, IO-540-K1G5D)

**Power:** 300 HP @ 2700 RPM

**Placard/Restr:**

**Notes:** Requires the installation of LoPresti STC No. SA01660AT or SA00953AT.

**Startlock Angle:** NA

**Feather/High Angle:** 32.0 +-1.0

**Cwt Angle:**

**Non-HPI Governor:**

PIPER

**Model:** PA-32RT-300T  
**Trade Name:** TURBO LANCE II  
**Aircraft T.C./STC:** SA3181NM  
**Propeller Model:** HC-E3YR-1RF  
**Propeller T.C.:** P33EA  
**Blade Model(s):** F7673DR  
**Prop Diameter:** 78.0" TO 76.0"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.2 +-0.2  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number   | Description               | Quantity | Qty Per | Comments |
|---------------|---------------|---------------------------|----------|---------|----------|
| PROPELLER     | E3R00008SKDTP | E3R00008/SM25/C-3575-P    | 1        | A/C     |          |
| PROPELLER     | E3R00008STP   | E3R00008/SM25/C-3575-P    | 1        | A/C     |          |
| BLADE         | F7673DR       | PCP:BLADE UNIT, ALUMINUM  | 3        | Prop    |          |
| SPINNER       | C-3575-P      | SPINNER ASSEMBLY          | 1        | A/C     |          |
| GOVERNOR      | F4-11B        | GOVERNOR ASSEMBLY, F-4( ) | 1        | A/C     |          |
| GOVERNOR      | F4-11BZ       | GOVERNOR ASSEMBLY, F-4( ) | 1        | A/C     |          |
| SPIN MTG KIT  | A-2476-25     | SPINNER - MTG KIT         | 1        | Prop    |          |
| MTG BOLT/STUD | A-2067        | STUD, MOUNTING, 1/2-20    | 6        | Prop    |          |

**IDS No.:** 2516      **Rev.:** 1      **BC Date:** 07/10/2014

**Modifier:** HARTZELL PROPELLER

**Engine Model:** TIO-540-S1AD

**Power:** 300 HP @ 2700 RPM

**Placard/Restr:**

**Notes:**

**Startlock Angle:** NA

**Feather/High Angle:** 34.5 +-1.0

**Cwt Angle:**

**Non-HPI Governor:**

# HARTZELL

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**PIPER**

**Model:** PA-32RT-300T, PA-32-301T, PA-32R-301T  
**Trade Name:** TURBO LANCE II, TURBO SARATOGA (SP)  
**Aircraft T.C./STC:** SA04274CH  
**Propeller Model:** HC-E3YR-1RF  
**Propeller T.C.:** P33EA  
**Blade Model(s):** F7693F+2  
**Prop Diameter:** 80"-78"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.6 +-0.2  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number | Description                    | Quantity | Qty Per | Comments |
|---------------|-------------|--------------------------------|----------|---------|----------|
| PROPELLER     | E3R00055    | HC-E3YR-1RF/F7693F+2/SM25      | 1        | A/C     |          |
| PROPELLER     | E3R00055KD  | HC-E3YR-1RF/F7693F+2/SM25      | 1        | A/C     |          |
| BLADE         | F7693F+2    | PCP:BLADE UNIT, ALUM [6,15,11] | 3        | Prop    |          |
| SPINNER       | C-3575-P    | SPINNER ASSEMBLY               | 1        | A/C     |          |
| GOVERNOR      | F4-11B      | GOVERNOR ASSEMBLY, F-4-( )     | 1        | A/C     |          |
| GOVERNOR      | F4-11BZ     | GOVERNOR ASSEMBLY, F-4-( )     | 1        | A/C     |          |
| SPIN MTG KIT  | A-2476-25   | SPINNER - MTG KIT              | 1        | Prop    |          |
| MTG BOLT/STUD | A-2067      | STUD, MOUNTING, 1/2-20         | 6        | Prop    |          |

**IDS No.:** 3532      **Rev.:** 2      **IC Date:** 03/23/2018

**Modifier:** HARTZELL PROPELLER  
**Engine Model:** TIO-540-S1AD

**Power:** 300 HP @ 2700 RPM

**Placard/Restr:**

**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 30.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

**PIPER**

**Model:** PA-32S-300  
**Trade Name:** CHEROKEE SIX  
**Aircraft T.C./STC:** STC-SA932EA  
**Propeller Model:** HC-C2YR-1BF  
**Propeller T.C.:** P-920  
**Blade Model(s):** F8475+2  
**Prop Diameter:** 86"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:**  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number | Description                  | Quantity | Qty Per | Comments |
|---------------|-------------|------------------------------|----------|---------|----------|
| BLADE         | F8475+2     | PCP:BLADE UNIT, ALUM [1,1,1] | 2        | Prop    |          |
| MTG BOLT/STUD | A-2067      | STUD, MOUNTING, 1/2-20       | 6        | Prop    |          |

**IDS No.:** 832      **Rev.:** -      **DM Date:** 01/12/2004

**Modifier:** PK FLOAT DIVISION  
**Engine Model:** IO-540-K1A5

**Power:** 300 HP @ 2700 RPM

**Placard/Restr:**

**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:**  
**Cwt Angle:**

**Non-HPI Governor:**

# HARTZELL

## APPLICATION GUIDE

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PIPER

IDS No.: 845 Rev.: 1 IC Date: 07/07/2015

**Model:** PA-34-200T (right side)  
**Trade Name:** SENECA II  
**Aircraft T.C./STC:** A7SO  
**Propeller Model:** BHC-C2YF-2( )L( )UF ("U" for -E engine only)  
**Propeller T.C.:** P-920  
**Blade Model(s):** FJC8459-8R  
 FJC8459B-8R  
 FJC8459B-8R\*1  
**Prop Diameter:** 76.0" TO 75.0"

**Modifier:**  
**Engine Model:** LTSIO-360-E, -EB  
**Power:** 215 HP @ 2575 RPM  
**Placard/Restr:**

**Notes:** 79.3+0.2 OK for SN < AN3943. PLR date is 6/11/98 for -2CLKUF and 11/2/73 for -2CLKF.

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 14.4 +-0.2  
**Stud Protrusion** 1.120 +-0.030

**Startlock Angle:** 19.9 +-1.5  
**Feather/High Angle:** 80.75 +-0.75  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type     | Item Number     | Description                    | Quantity | Qty Per | Comments                       |
|---------------|-----------------|--------------------------------|----------|---------|--------------------------------|
| PROPELLER     | C2F00290        | BHC-C2YF-2CLKUF/FJC8459-8R/SM4 | 1        | A/C     |                                |
| PROPELLER     | C2F00292        | BHC-C2YF-2CLKUF/FJC8459B-8R/S4 | 1        | A/C     | PROP DEICE:BOOTS&WIREHRNS ONLY |
| BLADE         | FJC8459-8R      | PCP:BLADE UNIT, ALUMINUM       | 2        | Prop    |                                |
| BLADE         | FJC8459B-8R     | PCP:BLADE UNIT, 4H1214-10      | 2        | Prop    |                                |
| BLADE         | FJC8459B-8R*1   | IDS ITEM, 4E2303-10,B-3202H-4L | 2        | Prop    |                                |
| SPINNER       | C-2285-2L       | SPINNER ASSEMBLY               | 1        | Prop    |                                |
| GOVERNOR      | E3-L            | GOVERNOR ASSEMBLY, E-3(-)      | 0        |         |                                |
| GOVERNOR      | E8-L            | GOVERNOR ASSEMBLY, E-8 (L)-()  | 0        |         | Synchrophasing                 |
| SPIN MTG KIT  | A-2476-4        | SPINNER - MTG KIT              | 1        | Prop    |                                |
| COUNTERWEIGHT | B-3202H-4       | PCP:COUNTERWEIGHT              | 1        | Blade   | Blade Component                |
| DE-ICER       | 4H1214-10       | DE-ICE BOOT                    | 1        | Blade   | Supersedes 7931-4E1214-10      |
| DE-ICER       | 4H2303-10       | DE-ICE BOOT                    | 1        | Blade   | Supersedes 7931-4E2303-10      |
| DE-ICE KIT PR | 7931-65-115     | IDS ITEM - DE-ICE KIT          | 1        | Prop    |                                |
| DE-ICE KIT PR | 7931-67-015     | IDS ITEM - DE-ICE KIT          | 1        | Prop    |                                |
| MTG BOLT/STUD | A-2429-3        | STUD, MOUNTING, 1/2-20         | 6        | Prop    |                                |
| MISC ACCES    | 4H2235-3        | WIRE HARNESS - KIT             | 2        | Prop    | HARNESS                        |
| MISC ACCES    | 7931-4E2235-3   | WIRE HARNESS                   | 2        | Prop    | HARNESS                        |
| OVERHAUL KIT  | BHC-C2YF-2CLKUF | O/H KIT                        | 1        | Prop    | For aftermarket use only       |

# HARTZELL

## APPLICATION GUIDE

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PIPER

IDS No.: 844 Rev.: 1 IC Date: 07/07/2015

**Model:** PA-34-200T (left side)  
**Trade Name:** SENECA II  
**Aircraft T.C./STC:** A7SO  
**Propeller Model:** BHC-C2YF-2( )UF (BHC-C2YF-2( )F, -E Engine only)

**Modifier:**  
**Engine Model:** TSIO-360-E, -EB  
**Power:** 215 HP @ 2575 RPM  
**Placard/Restr:**

**Propeller T.C.:** P-920  
**Blade Model(s):** FC8459-8R  
 FC8459B-8R  
 FC8459B-8R\*3  
**Prop Diameter:** 76.0" TO 75.0"

**Notes:** 79.3+-2 OK for SN<AN3943.

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 14.4 +-0.2  
**Stud Protrusion** 1.120 +-0.030

**Startlock Angle:** 19.9 +-1.5  
**Feather/High Angle:** 80.75 +-0.75  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type     | Item Number    | Description                    | Quantity | Qty Per | Comments                  |
|---------------|----------------|--------------------------------|----------|---------|---------------------------|
| PROPELLER     | C2F00240       | BHC-C2YF-2CKUF/FC8459-8R/SM4   | 1        | A/C     |                           |
| PROPELLER     | C2F00251       | BHC-C2YF-2CKUF/FC8459B-8R/SM4  | 1        | A/C     |                           |
| BLADE         | FC8459-8R      | PCP:BLADE UNIT, B-3202H-4 CWT  | 2        | Prop    |                           |
| BLADE         | FC8459B-8R     | PCP:BLADE UNIT, ALUM 4H1895-10 | 2        | Prop    |                           |
| BLADE         | FC8459B-8R*3   | PCP:BLADE UNIT, 4H2292-10      | 2        | Prop    |                           |
| SPINNER       | C-2285-2       | SPINNER ASSEMBLY               | 1        | Prop    |                           |
| GOVERNOR      | E3             | GOVERNOR ASSEMBLY, E-3-( )     | 0        |         |                           |
| SPIN MTG KIT  | A-2476-4       | SPINNER - MTG KIT              | 1        | Prop    |                           |
| COUNTERWEIGHT | B-3202H-4      | PCP:COUNTERWEIGHT              | 1        | Blade   | Blade Component           |
| DE-ICER       | 4H1895-10      | DE-ICE BOOT                    | 1        | Blade   | Supersedes 7931-4E1895-10 |
| DE-ICER       | 4H2292-10      | DE-ICE BOOT                    | 1        | Blade   | Supercedes 7931-4E2292-10 |
| DE-ICE KIT PR | 7931-65-115    | IDS ITEM - DE-ICE KIT          | 1        | Prop    | 14 Volt                   |
| DE-ICE KIT PR | 7931-67-015    | IDS ITEM - DE-ICE KIT          | 1        | Prop    |                           |
| MTG BOLT/STUD | A-2429-3       | STUD, MOUNTING, 1/2-20         | 6        | Prop    |                           |
| MISC ACCES    | 7931-4E1967-3  | DE-ICER WIRE HARNESS           | 2        | Prop    | Harness                   |
| OVERHAUL KIT  | BHC-C2YF-2CKUF | O/H KIT                        | 1        | Prop    | For aftermarket use only  |



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**PIPER**

IDS No.: 1917      Rev.: 1      IC      Date: 07/07/2015

**Model:** PA-34-200 (left side)  
**Trade Name:** SENECA  
**Aircraft T.C./STC:** A7SO  
**Propeller Model:** HC-C2YK-2( )E(U)(F), -2CGUF  
**Propeller T.C.:** P-920

**Modifier:**  
**Engine Model:** IO-360-C1E6  
**Power:** 200 HP @ 2700 RPM  
**Placard/Restr:** Avoid continuous operation between 2200 and 2400 RPM unless aircraft is equipped with Hartzell C-1576 Damper on both left and right engines.

**Blade Model(s):** FC7666A  
 FC7666AB  
**Prop Diameter:** 76.0" TO 74.0"

**Notes:** C2K00370 has no C-1576 Damper.

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.5 +-0.1  
**Stud Protrusion**

**Startlock Angle:** 19.0 +-1.5  
**Feather/High Angle:** 80.0 +-1.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:** PIPER

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>             | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|--------------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | C2K00370           | HC-C2YK-2CGUF/FC7666A/SM16     | 1               | A/C            |                          |
| PROPELLER        | C2K00371           | HC-C2YK-2CGUF/FC7666A/SM16/DPR | 1               | A/C            |                          |
| PROPELLER        | C2K00372           | HC-C2YK-2CGUF/FC7666AB/SM16/DP | 1               | A/C            |                          |
| BLADE            | FC7666A            | PCP:BLADE UNIT, B-3202H-9 CWT  | 2               | Prop           |                          |
| BLADE            | FC7666AB           | PCP:BLADE UNIT, B3202H-9 CWT   | 2               | Prop           |                          |
| GOVERNOR         | F6-18A             | GOVERNOR ASSEMBLY, F-6(-)      | 1               | A/C            |                          |
| SPIN MTG KIT     | A-2476-16          | SPINNER - MTG KIT              | 1               | Prop           |                          |
| COUNTERWEIGHT    | B-3202H-9          | PCP:COUNTERWEIGHT              | 1               | Blade          | Blade Component          |
| DE-ICER          | 4H1214-2           | DE-ICE BOOT                    | 1               | Blade          | Supersedes 7931-4E1214-2 |
| DE-ICE KIT PR    | 7931-77-220        | IDS ITEM - DE-ICE KIT          | 1               | Prop           |                          |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20         | 6               | Prop           |                          |
| DAMPER           | C-1576             | DAMPER ASSEMBLY                | 1               | Prop           |                          |
| OVERHAUL KIT     | HC-C2YK-2CGUF      | O/H KIT                        | 1               | Prop           | For aftermarket use only |

# HARTZELL

## APPLICATION GUIDE

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PIPER

IDS No.: 842 Rev.: 3 IC Date: 08/28/2015

**Model:** PA-34-200 (left side)  
**Trade Name:** SENECA  
**Aircraft T.C./STC:** A7SO  
**Propeller Model:** HC-C2YK-2( )E(U)(F)  
**Propeller T.C.:** P-920

**Modifier:**  
**Engine Model:** IO-360-C1E6  
**Power:** 200 HP @ 2700 RPM

**Placard/Restr:** The following placard applies if C-1576 Damper is not used: Avoid continuous operation between 2200 and 2400 RPM; Current Prop Model is HC-C2YK-2CEUF.

**Blade Model(s):** FC7666A  
 FC7666AB  
**Prop Diameter:** 76.0" TO 74.0"

**Notes:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.5 +-0.1  
**Stud Protrusion**

**Startlock Angle:** 19.0 +-1.5  
**Feather/High Angle:** 80.0 +-1.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:** PIPER

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>             | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>              |
|------------------|--------------------|--------------------------------|-----------------|----------------|------------------------------|
| PROPELLER        | C2K00290           | HC-C2YK-2CEUF/FC7666A/SM4      | 1               | A/C            |                              |
| PROPELLER        | C2K00291           | HC-C2YK-2CEUF/FC7666A/SM16/DPR | 1               | A/C            |                              |
| PROPELLER        | C2K00300           | HC-C2YK-2CEUF/FC7666AB/SM4     | 1               | A/C            |                              |
| BLADE            | FC7666A            | PCP:BLADE UNIT, B-3202H-9 CWT  | 2               | Prop           |                              |
| BLADE            | FC7666AB           | PCP:BLADE UNIT, B3202H-9 CWT   | 2               | Prop           |                              |
| GOVERNOR         | F6-18A             | GOVERNOR ASSEMBLY, F-6(-)      | 0               |                |                              |
| SPIN MTG KIT     | A-2476-16          | SPINNER - MTG KIT              | 1               | Prop           | Use w/C-1576, Ref Dwg C-1582 |
| SPIN MTG KIT     | A-2476-4           | SPINNER - MTG KIT              | 1               | Prop           |                              |
| COUNTERWEIGHT    | B-3202H-9          | PCP:COUNTERWEIGHT              | 1               | Blade          | Blade Component              |
| DE-ICER          | 4H1214-2           | DE-ICE BOOT                    | 1               | Blade          | Supersedes 7931-4E1214-2     |
| DE-ICE KIT PR    | 7931-77-220        | IDS ITEM - DE-ICE KIT          | 1               | Prop           |                              |
| DE-ICE KIT PR    | 7931-77-220-1      | DE-ICE KIT (ONE PROP)          | 1               | Prop           |                              |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20         | 6               | Prop           |                              |
| DAMPER           | C-1576             | DAMPER ASSEMBLY                | 1               | Prop           |                              |
| OVERHAUL KIT     | HC-C2YK-2CEUF      | O/H KIT                        | 1               | Prop           | For aftermarket use only     |

# HARTZELL

## APPLICATION GUIDE

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PIPER

IDS No.: 1916 Rev.: - DM Date: 02/14/2008

**Model:** PA-34-200 (right side)  
**Trade Name:** SENECA  
**Aircraft T.C./STC:** A7SO  
**Propeller Model:** HC-C2YK-2CLGUF  
**Propeller T.C.:** P-920

**Modifier:**  
**Engine Model:** LIO-360-C1E6  
**Power:** 200 HP @ 2700 RPM  
**Placard/Restr:** Avoid continuous operation between 2200 and 2400 RPM unless aircraft is equipped with Hartzell C-1576 Damper on both left and right engines

**Blade Model(s):** FJC7666A  
 FJC7666AB  
**Prop Diameter:** 76.0" TO 74.0"

**Notes:** C2K00451 has no C1576 Damper

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.5 +-0.1  
**Stud Protrusion**

**Startlock Angle:** 19.0 +-1.5  
**Feather/High Angle:** 80.0 +-1.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:** PIPER

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>             | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|--------------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | C2K00450           | HC-C2YK-2CLGUF/FJC7666A/SM16/D | 1               | A/C            |                          |
| PROPELLER        | C2K00451           | HC-C2YK-2CLGUF/FJC7666A/SM16   | 1               | A/C            |                          |
| PROPELLER        | C2K00452           | HC-C2YK-2CLGUF/FJC7666AB/SM16  | 1               | A/C            |                          |
| BLADE            | FJC7666A           | PCP:BLADE UNIT, ALUMINUM       | 2               | Prop           |                          |
| BLADE            | FJC7666AB          | PCP:BLADE UNIT, ALUMINUM       | 2               | Prop           |                          |
| GOVERNOR         | F6-18AL            | GOVERNOR ASSEMBLY, F-6-( )     | 1               | A/C            |                          |
| SPIN MTG KIT     | A-2476-16          | SPINNER - MTG KIT              | 1               | Prop           |                          |
| COUNTERWEIGHT    | B-3202H-9L         | PCP:COUNTERWEIGHT              | 1               | Blade          | Blade Component          |
| DE-ICER          | 4H1895-2           | DE-ICE BOOT                    | 1               | Blade          | Supersedes 7931-4E1895-2 |
| DE-ICE KIT PR    | 7931-77-220        | IDS ITEM - DE-ICE KIT          | 1               | Prop           |                          |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20         | 6               | Prop           |                          |
| DAMPER           | C-1576             | DAMPER ASSEMBLY                | 1               | Prop           |                          |

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PIPER

IDS No.: 843 Rev.: 3 IC Date: 08/28/2015

**Model:** PA-34-200 (right side)  
**Trade Name:** SENECA  
**Aircraft T.C./STC:** A7SO  
**Propeller Model:** HC-C2YK-2( )LE(U)(F)  
**Propeller T.C.:** P-920

**Modifier:**  
**Engine Model:** LIO-360-C1E6  
**Power:** 200 HP @ 2700 RPM  
**Placard/Restr:** The following placard applies if C-1576 Damper is not used: Avoid continuous operation between 2200 and 2400 RPM; Current Prop Model is HC-C2YK-2CLEUF.

**Blade Model(s):** FJC7666A  
 FJC7666AB  
**Prop Diameter:** 76.0" TO 74.0"

**Notes:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.5 +-0.1  
**Stud Protrusion**

**Startlock Angle:** 19.0 +-1.5  
**Feather/High Angle:** 80.0 +-1.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:** PIPER

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type     | Item Number    | Description                    | Quantity | Qty Per | Comments                    |
|---------------|----------------|--------------------------------|----------|---------|-----------------------------|
| PROPELLER     | C2K00410       | HC-C2YK-2CLEUF/FJC7666A/SM4    | 1        | A/C     |                             |
| PROPELLER     | C2K00411       | HC-C2YK-2CLEUF/FJC7666A/SM16/D | 1        | A/C     |                             |
| PROPELLER     | C2K00430       | HC-C2YK-2CLEUF/FJC7666AB/SM4   | 1        | A/C     |                             |
| BLADE         | FJC7666A       | PCP:BLADE UNIT, ALUMINUM       | 2        | Prop    |                             |
| BLADE         | FJC7666AB      | PCP:BLADE UNIT, ALUMINUM       | 2        | Prop    |                             |
| GOVERNOR      | F6-18AL        | GOVERNOR ASSEMBLY, F-6(-)      | 0        |         |                             |
| SPIN MTG KIT  | A-2476-16      | SPINNER - MTG KIT              | 1        | Prop    | Use w/C-1576 Ref Dwg C-1582 |
| SPIN MTG KIT  | A-2476-4       | SPINNER - MTG KIT              | 1        | Prop    |                             |
| COUNTERWEIGHT | B-3202H-9L     | PCP:COUNTERWEIGHT              | 1        | Blade   | Blade Component             |
| DE-ICER       | 4H1895-2       | DE-ICE BOOT                    | 1        | Blade   | Supersedes 7931-4E1895-2    |
| DE-ICER       | 7931-77-220-1  | DE-ICE KIT (ONE PROP)          | 1        | Prop    |                             |
| DE-ICE KIT PR | 7931-77-220    | IDS ITEM - DE-ICE KIT          | 1        | Prop    |                             |
| MTG BOLT/STUD | A-2067         | STUD, MOUNTING, 1/2-20         | 6        | Prop    |                             |
| DAMPER        | C-1576         | DAMPER ASSEMBLY                | 1        | Prop    |                             |
| OVERHAUL KIT  | HC-C2YK-2CLEUF | O/H KIT                        | 1        | Prop    | For aftermarket use only    |

# HARTZELL

## APPLICATION GUIDE

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**PIPER**

IDS No.: 1172      Rev.: 2      IC      Date: 07/15/2015

**Model:** PA-34-200T (left side)  
**Trade Name:** SENECA II  
**Aircraft T.C./STC:** STC-SA1118SO  
**Propeller Model:** PHC-C3YF-2KUF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** FC7663-2R  
                             FC7663-2R\*2  
                             FC7663B-2R\*1  
**Prop Diameter:** 76.0" TO 75.0"

**Modifier:** HARTZELL PROPELLER  
**Engine Model:** TSIO-360-E, -EB  
**Power:** 200 HP @ 2575 RPM  
**Placard/Restr:**  
**Notes:** HP< increased by 3.0 deg.

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.2 +-0.2  
**Stud Protrusion** 1.120 +-0.030

**Startlock Angle:** 21.7 +-1.5  
**Feather/High Angle:** 82.0 +-1.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type      | Item Number   | Description                    | Quantity | Qty Per | Comments                  |
|----------------|---------------|--------------------------------|----------|---------|---------------------------|
| PROPELLER      | C3F00610      | PHC-C3YF-2KUF/FC7663-2R/SM9    | 1        | A/C     |                           |
| PROPELLER      | C3F00610KD    | PHC-C3YF-2KUF/FC7663-2R/SM9    | 1        | A/C     |                           |
| PROPELLER      | C3F00610SKDTP | C3F00610/SM9/C-4558-3P         | 1        | A/C     |                           |
| PROPELLER      | C3F00610STP   | C3F00610/SM9/C-4558-3P         | 1        | A/C     |                           |
| PROPELLER      | C3F00611      | PHC-C3YF-2KUF/FC7663B-2R*1/SM9 | 1        | A/C     |                           |
| PROPELLER      | C3F00611KD    | PHC-C3YF-2KUF/FC7663B-2R*1/SM9 | 1        | A/C     |                           |
| PROPELLER      | C3F00611SKDTP | C3F00611/SM9/C-4558-3P/DE-ICE  | 1        | A/C     |                           |
| PROPELLER      | C3F00611STP   | C3F00611/SM9/C-4558-3P/DE-ICE  | 1        | A/C     |                           |
| BLADE          | FC7663-2R     | PCP:BLADE UNIT, B-3202H-5      | 3        | Prop    |                           |
| BLADE          | FC7663-2R*2   | IDS ITEM, [3,1,1], B-3202H-5   | 3        | Prop    |                           |
| BLADE          | FC7663B-2R*1  | PCP:BLADE UNIT, ALUM 4H2303-10 | 3        | Prop    |                           |
| SPINNER        | C-4558-3      | SPINNER ASSEMBLY               | 1        | Prop    |                           |
| SPINNER        | C-4558-3P     | SPINNER ASSEMBLY               | 1        | Prop    |                           |
| GOVERNOR       | E3            | GOVERNOR ASSEMBLY, E-3-( )     | 1        | Prop    |                           |
| SPIN MTG KIT   | A-2476-9      | SPINNER - MTG KIT              | 1        | Prop    |                           |
| COUNTERWEIGHT  | B-3202H-5     | PCP:COUNTERWEIGHT              | 1        | Blade   | Blade Component           |
| DE-ICER        | 4H2303-10     | DE-ICE BOOT                    | 1        | Blade   | Supersedes 7931-4E2303-10 |
| DE-ICE KIT PR  | 102600-1      | DE-ICE KIT (ONE PROP)          | 1        | A/C     |                           |
| DE-ICE KIT PR  | 102600-3      | AIRFRAME DE-ICE KIT (1 PER AC) | 1        | A/C     |                           |
| DE-ICE KIT PR  | 102600-4      | AIRFRAME DE-ICE KIT (1 PER AC) | 1        | A/C     |                           |
| DE-ICE KIT PR  | 7931-67-195-1 | DE-ICE KIT (TWO PROPS)         | 1        | A/C     |                           |
| DE-ICE KIT A/F | 7931-67-195   | AIRFRAME DE-ICE KIT            | 1        | A/C     |                           |
| MTG BOLT/STUD  | A-2429-3      | STUD, MOUNTING, 1/2-20         | 6        | Prop    | Use w/E-7167-2 Hub Only   |
| MTG BOLT/STUD  | A-2429-6      | STUD, MOUNTING, 1/2-20         | 6        | Prop    | Use w/E-7167-12 Hub Only  |
| OVERHAUL KIT   | PHC-C3YF-2KUF | O/H KIT                        | 1        | Prop    | For aftermarket use only  |

# HARTZELL

## APPLICATION GUIDE

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PIPER

IDS No.: 849 Rev.: 2 IC Date: 07/15/2015

**Model:** PA-34-200T (right side)  
**Trade Name:** SENECA II  
**Aircraft T.C./STC:** STC-SA1118SO  
**Propeller Model:** PHC-C3YF-2LKUF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** FJC7663-2R  
 FJC7663-2R\*1  
 FJC7663B-2R  
**Prop Diameter:** 76.0" TO 75.0"

**Modifier:** HARTZELL PROPELLER  
**Engine Model:** LTSIO-360-E(B)  
**Power:** 200 HP @ 2575 RPM  
**Placard/Restr:**  
**Notes:** High Pitch is increased by 3.0 deg.; E-8L is synchrophasing

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.2 +-0.2  
**Stud Protrusion** 1.120 +-0.030

**Startlock Angle:** 21.7 +-1.5  
**Feather/High Angle:** 82.0 +-1.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type      | Item Number    | Description                    | Quantity | Qty Per | Comments                  |
|----------------|----------------|--------------------------------|----------|---------|---------------------------|
| PROPELLER      | C3F00510       | PHC-C3YF-2LKUF/FJC7663-2R/SM9  | 1        | A/C     |                           |
| PROPELLER      | C3F00510KD     | PHC-C3YF-2LKUF/FJC7663-2R/SM9  | 1        | A/C     |                           |
| PROPELLER      | C3F00510SKDTP  | C3F00510/SM9/C-4558-3P         | 1        | A/C     |                           |
| PROPELLER      | C3F00510STP    | C3F00510/SM9/C-4558-3P         | 1        | A/C     |                           |
| PROPELLER      | C3F00511       | PHC-C3YF-2LKUF/FJC7663B-2R/SM9 | 1        | A/C     |                           |
| PROPELLER      | C3F00511KD     | PHC-C3YF-2LKUF/FJC7663B-2R/SM9 | 1        | A/C     |                           |
| PROPELLER      | C3F00511SKDTP  | C3F00511/SM9/C-4558-3P/DE-ICE  | 1        | A/C     |                           |
| PROPELLER      | C3F00511STP    | C3F00511/SM9/C-4558-3P/DE-ICE  | 1        | A/C     |                           |
| BLADE          | FJC7663-2R     | PCP:BLADE UNIT, ALUMINUM       | 3        | Prop    |                           |
| BLADE          | FJC7663-2R*1   | IDS ITEM [3,1,1] B-3202H-5 CWT | 3        | Prop    |                           |
| BLADE          | FJC7663B-2R    | PCP:BLADE UNIT, ALUMINUM       | 3        | Prop    |                           |
| SPINNER        | C-4558-3       | SPINNER ASSEMBLY               | 1        | Prop    |                           |
| SPINNER        | C-4558-3P      | SPINNER ASSEMBLY               | 1        | Prop    |                           |
| GOVERNOR       | E3-L           | GOVERNOR ASSEMBLY, E-3-( )     | 1        | Prop    |                           |
| GOVERNOR       | E8-L           | GOVERNOR ASSEMBLY, E-8 (L)-( ) | 1        | Prop    |                           |
| SPIN MTG KIT   | A-2476-9       | SPINNER - MTG KIT              | 1        | Prop    |                           |
| COUNTERWEIGHT  | B-3202H-5      | PCP:COUNTERWEIGHT              | 1        | Blade   | Blade Component           |
| DE-ICER        | 4H2292-10      | DE-ICE BOOT                    | 1        | Blade   | Supersedes 7931-4E2292-10 |
| DE-ICE KIT PR  | 102600-1       | DE-ICE KIT (ONE PROP)          | 1        | A/C     | Top Prop Conversion Kit   |
| DE-ICE KIT PR  | 102600-3       | AIRFRAME DE-ICE KIT (1 PER AC) | 1        | A/C     | Top Prop Conversion Kit   |
| DE-ICE KIT PR  | 102600-4       | AIRFRAME DE-ICE KIT (1 PER AC) | 1        | A/C     | Top Prop Conversion Kit   |
| DE-ICE KIT PR  | 7931-67-195-1  | DE-ICE KIT (TWO PROPS)         | 1        | A/C     | Top Prop Conversion Kit   |
| DE-ICE KIT A/F | 7931-67-195    | AIRFRAME DE-ICE KIT            | 1        | A/C     |                           |
| MTG BOLT/STUD  | A-2429-3       | STUD, MOUNTING, 1/2-20         | 6        | Prop    | Use w/E-7167-2 Hub Only   |
| MTG BOLT/STUD  | A-2429-6       | STUD, MOUNTING, 1/2-20         | 6        | Prop    | Use w/E-7167-12 Hub Only  |
| OVERHAUL KIT   | PHC-C3YF-2LKUF | O/H KIT                        | 1        | Prop    | For aftermarket use only  |

# HARTZELL

## APPLICATION GUIDE

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PIPER

IDS No.: 850 Rev.: 2 IC Date: 07/15/2015

**Model:** PA-34-220T (left side)  
**Trade Name:** SENECA III  
**Aircraft T.C./STC:** STC-SA649GL  
**Propeller Model:** PHC-C3YF-2KUF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** FC7453  
 FC7453\*1  
 FC7453K  
**Prop Diameter:** 76.0" TO 75.0"

**Modifier:** HARTZELL PROPELLER  
**Engine Model:** TSIO-360-KB  
**Power:** 220 HP @ 2800 RPM  
**Placard/Restr:**  
**Notes:** HP< increased by 3.0 deg.

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 9.5 +-0.2  
**Stud Protrusion** 1.120 +-0.030

**Startlock Angle:** 18.0 +-1.5  
**Feather/High Angle:** 81.0 +-1.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type      | Item Number   | Description                    | Quantity | Qty Per | Comments                  |
|----------------|---------------|--------------------------------|----------|---------|---------------------------|
| PROPELLER      | C3F00650      | PHC-C3YF-2KUF/FC7453/SM9       | 1        | A/C     |                           |
| PROPELLER      | C3F00650KD    | PHC-C3YF-2KUF/FC7453/SM9       | 1        | A/C     |                           |
| PROPELLER      | C3F00650SKDTP | C3F00650/SM9/C-4558-3P         | 1        | A/C     |                           |
| PROPELLER      | C3F00650STP   | C3F00650/SM9/C-4558-3P         | 1        | A/C     |                           |
| PROPELLER      | C3F00651      | PHC-C3YF-2KUF/FC7453K/SM9      | 1        | A/C     |                           |
| PROPELLER      | C3F00651KD    | PHC-C3YF-2KUF/FC7453K/SM9      | 1        | A/C     |                           |
| PROPELLER      | C3F00651SKDTP | C3F00651/SM9/C-4558-3P/DE-ICE  | 1        | A/C     |                           |
| PROPELLER      | C3F00651STP   | C3F00651/SM9/C-4558-3P/DE-ICE  | 1        | A/C     |                           |
| BLADE          | FC7453        | PCP:BLADE UNIT, ALUMINUM       | 3        | Prop    |                           |
| BLADE          | FC7453*1      | IDS ITEM,B-3202H-2 CWT [3,1,1] | 3        | Prop    |                           |
| BLADE          | FC7453K       | PCP:BLADE UNIT, ALUMINUM       | 3        | Prop    |                           |
| SPINNER        | C-4558-3      | SPINNER ASSEMBLY               | 1        | Prop    | Replaces C4558,-1         |
| SPINNER        | C-4558-3P     | SPINNER ASSEMBLY               | 1        | Prop    |                           |
| GOVERNOR       | E3-7          | GOVERNOR ASSEMBLY, E-3-( )     | 1        | Prop    |                           |
| GOVERNOR       | E8-7          | IDS Item                       | 1        | Prop    |                           |
| GOVERNOR       | U3-8          | GOVERNOR ASSEMBLY, U-(3,8)-( ) | 1        | Prop    |                           |
| GOVERNOR       | U8-8          | IDS Item                       | 1        | Prop    |                           |
| SPIN MTG KIT   | A-2476-9      | SPINNER - MTG KIT              | 1        | Prop    |                           |
| COUNTERWEIGHT  | B-3202H-2     | PCP:COUNTERWEIGHT              | 1        | Blade   | Blade Component           |
| DE-ICER        | 4H2303-10     | DE-ICE BOOT                    | 1        | Blade   | Supercedes 7931-4E2303-10 |
| DE-ICE KIT PR  | 102600-1      | DE-ICE KIT (ONE PROP)          | 1        | A/C     |                           |
| DE-ICE KIT PR  | 102600-3      | AIRFRAME DE-ICE KIT (1 PER AC) | 1        | A/C     |                           |
| DE-ICE KIT PR  | 102600-4      | AIRFRAME DE-ICE KIT (1 PER AC) | 1        | A/C     |                           |
| DE-ICE KIT PR  | 7931-67-195-1 | DE-ICE KIT (TWO PROPS)         | 1        | A/C     |                           |
| DE-ICE KIT A/F | 7931-67-195   | AIRFRAME DE-ICE KIT            | 1        | A/C     |                           |
| MTG BOLT/STUD  | A-2429-3      | STUD, MOUNTING, 1/2-20         | 6        | Prop    | Use w/E-7167-2 Hub Only   |
| MTG BOLT/STUD  | A-2429-6      | STUD, MOUNTING, 1/2-20         | 6        | Prop    | Use w/E-7167-12 Hub Only  |
| OVERHAUL KIT   | PHC-C3YF-2KUF | O/H KIT                        | 1        | Prop    | For aftermarket use only  |

# HARTZELL

## APPLICATION GUIDE

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PIPER

IDS No.: 1198 Rev.: 2 IC Date: 07/15/2015

**Model:** PA-34-220T (right side)  
**Trade Name:** SENECA III  
**Aircraft T.C./STC:** STC-SA649GL  
**Propeller Model:** PHC-C3YF-2LKUF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** FJC7453  
 FJC7453\*1  
 FJC7453K  
**Prop Diameter:** 76.0" TO 75.0"

**Modifier:** HARTZELL PROPELLER  
**Engine Model:** LTSIO-360-KB  
**Power:** 220 HP @ 2800 RPM  
**Placard/Restr:**  
**Notes:** HP< increased by 3.0 deg.

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 9.5 +-0.2  
**Stud Protrusion** 1.120 +-0.030

**Startlock Angle:** 18.0 +-1.5  
**Feather/High Angle:** 81.0 +-1.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type      | Item Number    | Description                    | Quantity | Qty Per | Comments                  |
|----------------|----------------|--------------------------------|----------|---------|---------------------------|
| PROPELLER      | C3F00550       | PHC-C3YF-2LKUF/FJC7453/SM9     | 1        | A/C     |                           |
| PROPELLER      | C3F00550KD     | PHC-C3YF-2LKUF/FJC7453/SM9     | 1        | A/C     |                           |
| PROPELLER      | C3F00550SKDTP  | C3F00550/SM9/C-4558-3P         | 1        | A/C     |                           |
| PROPELLER      | C3F00550STP    | C3F00550/SM9/C-4558-3P         | 1        | A/C     |                           |
| PROPELLER      | C3F00551       | PHC-C3YF-2LKUF/FJC7453K/SM9    | 1        | A/C     |                           |
| PROPELLER      | C3F00551KD     | PHC-C3YF-2LKUF/FJC7453K/SM9    | 1        | A/C     |                           |
| PROPELLER      | C3F00551SKDTP  | C3F00551/SM9/C-4558-3P/DE-ICE  | 1        | A/C     |                           |
| PROPELLER      | C3F00551STP    | C3F00551/SM9/C-4558-3P/DE-ICE  | 1        | A/C     |                           |
| BLADE          | FJC7453        | PCP:BLADE UNIT, ALUMINUM       | 3        | Prop    |                           |
| BLADE          | FJC7453*1      | IDS ITEM [3,1,1] B-3202H-2 CWT | 3        | Prop    |                           |
| BLADE          | FJC7453K       | PCP:BLADE UNIT, ALUMINUM       | 3        | Prop    |                           |
| SPINNER        | C-4558-3       | SPINNER ASSEMBLY               | 1        | Prop    | Replaces C4558,-1         |
| SPINNER        | C-4558-3P      | SPINNER ASSEMBLY               | 1        | Prop    |                           |
| GOVERNOR       | E3-7L          | GOVERNOR ASSEMBLY, E-3-( )     | 1        | Prop    |                           |
| GOVERNOR       | E8-7L          | GOVERNOR ASSEMBLY, E-8 (L)-( ) | 1        | Prop    |                           |
| GOVERNOR       | U3-8L          | GOVERNOR ASSEMBLY, U-(3,8)-( ) | 1        | Prop    |                           |
| GOVERNOR       | U8-8L          | GOVERNOR ASSEMBLY, U-(3,8)-( ) | 1        | Prop    |                           |
| SPIN MTG KIT   | A-2476-9       | SPINNER - MTG KIT              | 1        | Prop    |                           |
| COUNTERWEIGHT  | B-3202H-2      | PCP:COUNTERWEIGHT              | 1        | Blade   | Blade Component           |
| DE-ICER        | 4H2292-10      | DE-ICE BOOT                    | 1        | Blade   | Supercedes 7931-4E2292-10 |
| DE-ICE KIT PR  | 102600-1       | DE-ICE KIT (ONE PROP)          | 1        | A/C     |                           |
| DE-ICE KIT PR  | 102600-3       | AIRFRAME DE-ICE KIT (1 PER AC) | 1        | A/C     |                           |
| DE-ICE KIT PR  | 102600-4       | AIRFRAME DE-ICE KIT (1 PER AC) | 1        | A/C     |                           |
| DE-ICE KIT PR  | 7931-67-195-1  | DE-ICE KIT (TWO PROPS)         | 1        | A/C     |                           |
| DE-ICE KIT A/F | 7931-67-195    | AIRFRAME DE-ICE KIT            | 1        | A/C     |                           |
| MTG BOLT/STUD  | A-2429-3       | STUD, MOUNTING, 1/2-20         | 6        | Prop    | Use w/E-7167-2 Hub Only   |
| MTG BOLT/STUD  | A-2429-6       | STUD, MOUNTING, 1/2-20         | 6        | Prop    | Use w/E-7167-12 Hub Only  |
| OVERHAUL KIT   | PHC-C3YF-2LKUF | O/H KIT                        | 1        | Prop    | For aftermarket use only  |



# HARTZELL

## APPLICATION GUIDE

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PIPER

IDS No.: 846 Rev.: 1 IC Date: 10/04/2019

**Model:** PA-34-220T (left side)

**Trade Name:** SENECA III

**Aircraft T.C./STC:** A7SO

**Propeller Model:** BHC-C2YF-2CKUF

**Propeller T.C.:** P-920

**Modifier:**

**Engine Model:** TSIO-360-KB

**Power:** 220 HP @ 2800 RPM

**Placard/Restr:** Avoid continuous operation in cross and tail winds of over 10 knots between 1700 and 2100 RPM. Avoid continuous operation between 2000 and 2200 RPM with manifold pressure above 32" Hg.

**Blade Model(s):** FC8459-8R  
FC8459B-8R\*1

**Prop Diameter:** 76.0" TO 75.0"

**Notes:**

**Prop Setup:**

**Ref. Radius:** 30

**Reverse Angle:** NA

**Low Pitch Angle:** 12.6 +-0.2

**Stud Protrusion** 1.120 +-0.030

**Startlock Angle:** 18.1 +-1.5

**Feather/High Angle:** 80.75 +-0.75

**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:** PIPER

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>            | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|-------------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | C2F00242           | BHC-C2YF-2CKUF/FC8459-8R/SM4  | 1               | A/C            |                          |
| BLADE            | FC8459-8R          | PCP:BLADE UNIT, B-3202H-4 CWT | 2               | Prop           |                          |
| BLADE            | FC8459B-8R*1       | IDS ITEM, 4E1895-7, B-3202H-4 | 2               | Prop           |                          |
| GOVERNOR         | E3-7               | GOVERNOR ASSEMBLY, E-3-()     | 0               |                |                          |
| SPIN MTG KIT     | A-2476-4           | SPINNER - MTG KIT             | 1               | Prop           |                          |
| COUNTERWEIGHT    | B-3202H-4          | PCP:COUNTERWEIGHT             | 1               | Blade          | Blade Component          |
| DE-ICER          | 4H1895-7           | DE-ICE BOOT                   | 1               | Blade          | Supercedes 7931-4E1895-7 |
| MTG BOLT/STUD    | A-2429-3           | STUD, MOUNTING, 1/2-20        | 6               | Prop           |                          |

# HARTZELL

## APPLICATION GUIDE

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PIPER

IDS No.: 1322 Rev.: 2 IC Date: 10/04/2019

**Model:** PA-34-220T (left side)

**Trade Name:** SENECA III

**Aircraft T.C./STC:** A7SO

**Propeller Model:** BHC-C2YF-2CKUF

**Propeller T.C.:** P-920

**Modifier:**

**Engine Model:** TSIO-360-KB

**Power:** 220 HP @ 2800 RPM

**Placard/Restr:** Avoid continuous operation in cross and tail winds of over 10 knots between 1700 and 2100 RPM. Avoid continuous operation between 2000 and 2200 RPM with manifold pressure above 32" Hg.

**Blade Model(s):** FC8459-8R

FC8459B-8R

**Prop Diameter:** 76.0" TO 75.0"

**Notes:**

**Prop Setup:**

**Ref. Radius:** 30

**Reverse Angle:** NA

**Low Pitch Angle:** 12.6 +-0.2

**Stud Protrusion** 1.120 +-0.030

**Startlock Angle:** 18.1 +-1.5

**Feather/High Angle:** 80.75 +-0.75

**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>             | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>           |
|------------------|--------------------|--------------------------------|-----------------|----------------|---------------------------|
| PROPELLER        | C2F00242           | BHC-C2YF-2CKUF/FC8459-8R/SM4   | 1               | A/C            |                           |
| PROPELLER        | C2F00250           | BHC-C2YF-2CKUF/FC8459B-8R      | 1               | A/C            |                           |
| BLADE            | FC8459-8R          | PCP:BLADE UNIT, B-3202H-4 CWT  | 2               | Prop           |                           |
| BLADE            | FC8459B-8R         | PCP:BLADE UNIT, ALUM 4H1895-10 | 2               | Prop           |                           |
| SPINNER          | C-2285-2           | SPINNER ASSEMBLY               | 1               | Prop           |                           |
| SPINNER          | C-2285-2P          | SPINNER ASSEMBLY               | 1               | Prop           |                           |
| GOVERNOR         | E3-7               | GOVERNOR ASSEMBLY, E-3-()      | 1               | A/C            |                           |
| SPIN MTG KIT     | A-2476-4           | SPINNER - MTG KIT              | 1               | Prop           |                           |
| COUNTERWEIGHT    | B-3202H-4          | PCP:COUNTERWEIGHT              | 1               | Blade          | Blade Component           |
| DE-ICER          | 4H1895-10          | DE-ICE BOOT                    | 1               | Blade          | Supercedes 7931-4E1895-10 |
| DE-ICE KIT PR    | 7931-65-115        | IDS ITEM - DE-ICE KIT          | 1               | Prop           |                           |
| MTG BOLT/STUD    | A-2429-3           | STUD, MOUNTING, 1/2-20         | 6               | Prop           |                           |
| OVERHAUL KIT     | BHC-C2YF-2CKUF     | O/H KIT                        | 1               | Prop           | For aftermarket use only  |

# HARTZELL

## APPLICATION GUIDE

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**PIPER**

IDS No.: 1323      Rev.: 1      IC      Date: 07/07/2015

**Model:** PA-34-220T (right side)  
**Trade Name:** SENECA III  
**Aircraft T.C./STC:** A7SO  
**Propeller Model:** BHC-C2YF-2CLKUF  
**Propeller T.C.:** P-920  
**Blade Model(s):** FJC8459-8R  
    FJC8459B-8R  
**Prop Diameter:** 76.0" TO 75.0"

**Modifier:**  
**Engine Model:** LTSIO-360-KB  
**Power:** 220 HP @ 2800 RPM  
**Placard/Restr:**  
**Notes:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.6 +- 0.2  
**Stud Protrusion** 1.120 +-0.030

**Startlock Angle:** 18.1 +-1.5  
**Feather/High Angle:** 80.75 +-0.75  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>             | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>           |
|------------------|--------------------|--------------------------------|-----------------|----------------|---------------------------|
| PROPELLER        | C2F00291           | BHC-C2YF-2CLKUF/FJC8459-8R/SM4 | 1               | A/C            |                           |
| PROPELLER        | C2F00299           | BHC-C2YF-2CLKUF/FJC8459B-8R/S4 | 1               | A/C            |                           |
| BLADE            | FJC8459-8R         | PCP:BLADE UNIT, ALUMINUM       | 2               | Prop           |                           |
| BLADE            | FJC8459B-8R        | PCP:BLADE UNIT, 4H1214-10      | 2               | Prop           |                           |
| SPINNER          | C-2285-2L          | SPINNER ASSEMBLY               | 1               | Prop           |                           |
| SPINNER          | C-2285-2LP         | SPINNER ASSEMBLY               | 1               | Prop           |                           |
| GOVERNOR         | E3-7L              | GOVERNOR ASSEMBLY, E-3-()      | 1               | A/C            |                           |
| GOVERNOR         | E8-7L              | GOVERNOR ASSEMBLY, E-8 (L)-()  | 1               | A/C            |                           |
| GOVERNOR         | E8-8L              | GOVERNOR ASSEMBLY, E-8 (L)-()  | 1               | A/C            |                           |
| SPIN MTG KIT     | A-2476-4           | SPINNER - MTG KIT              | 1               | Prop           |                           |
| COUNTERWEIGHT    | B-3202H-4          | PCP:COUNTERWEIGHT              | 1               | Blade          | Blade Component           |
| DE-ICER          | 4H1214-10          | DE-ICE BOOT                    | 1               | Blade          | Supercedes 7931-4E1214-10 |
| DE-ICE KIT PR    | 7931-65-115        | IDS ITEM - DE-ICE KIT          | 1               | Prop           |                           |
| MTG BOLT/STUD    | A-2429-3           | STUD, MOUNTING, 1/2-20         | 6               | Prop           |                           |
| OVERHAUL KIT     | BHC-C2YF-2CLKUF    | O/H KIT                        | 1               | Prop           | For aftermarket use only  |

# HARTZELL

## APPLICATION GUIDE

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PIPER

IDS No.: 847 Rev.: - DM Date: 02/10/2004

**Model:** PA-34-220T (right side)  
**Trade Name:** SENECA III  
**Aircraft T.C./STC:** A7SO  
**Propeller Model:** BHC-C2YF-2CLKUF  
**Propeller T.C.:** P-920

**Modifier:**  
**Engine Model:** LTSIO-360-KB  
**Power:** 220 HP @ 2800 RPM  
**Placard/Restr:** Avoid continuous operation in cross and tail winds of over 10 knots between 1700 and 2100 RPM. Avoid continuous operation between 2000 and 2200 RPM with manifold pressure above 32" Hg.

**Blade Model(s):** FJC8459-8R  
 FJC8459B-8R\*2  
**Prop Diameter:** 76.0" TO 75.0"

**Notes:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.6 +-0.2  
**Stud Protrusion** 1.120 +-0.030

**Startlock Angle:** 18.1 +-1.5  
**Feather/High Angle:** 80.75 +-0.75  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:** PIPER

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>             | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|--------------------------------|-----------------|----------------|--------------------------|
| BLADE            | FJC8459-8R         | PCP:BLADE UNIT, ALUMINUM       | 2               | Prop           |                          |
| BLADE            | FJC8459B-8R*2      | IDS ITEM, 4H1214-7, B-3202H-4L | 2               | Prop           |                          |
| GOVERNOR         | E3-7L              | GOVERNOR ASSEMBLY, E-3-( )     | 0               |                |                          |
| GOVERNOR         | E8-7L              | GOVERNOR ASSEMBLY, E-8 (L)-( ) | 0               |                |                          |
| SPIN MTG KIT     | A-2476-4           | SPINNER - MTG KIT              | 1               | Prop           |                          |
| COUNTERWEIGHT    | B-3202H-4          | PCP:COUNTERWEIGHT              | 1               | Blade          | Blade Component          |
| DE-ICER          | 4H1214-7           | DE-ICE BOOT                    | 1               | Blade          | Supercedes 7931-4E1214-7 |
| MTG BOLT/STUD    | A-2429-3           | STUD, MOUNTING, 1/2-20         | 6               | Prop           |                          |

# HARTZELL

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PIPER

IDS No.: 1320 Rev.: 1 IC Date: 08/03/2017

**Model:** PA-34-220T (left side)  
**Trade Name:** SENECA V  
**Aircraft T.C./STC:** A7SO  
**Propeller Model:** BHC-J2YF-2CUF  
**Propeller T.C.:** P37EA  
**Blade Model(s):** FC8459-8R  
 FC8459B-8R\*2  
**Prop Diameter:** 76"

**Modifier:**  
**Engine Model:** TSIO-360-RB  
**Power:** 220 HP @ 2600 RPM  
**Placard/Restr:**

**Notes:** De-ice kit installed by Piper

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** 14.4 +-0.2  
**Low Pitch Angle:** NA  
**Stud Protrusion** 1.120 +-0.030

**Startlock Angle:** 19.9 +-1.5  
**Feather/High Angle:** 80.75 +-0.75  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:** Piper 37138-7

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>            | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>           |
|------------------|--------------------|-------------------------------|-----------------|----------------|---------------------------|
| PROPELLER        | J2F00055           | BHC-J2YF-2CUF/FC8459-8R/SM4   | 1               | A/C            |                           |
| PROPELLER        | J2F00059           | BHC-J2YF-2CUF/FC8459B-8R[*2]  | 1               | A/C            |                           |
| BLADE            | FC8459-8R          | PCP:BLADE UNIT, B-3202H-4 CWT | 2               | Prop           |                           |
| BLADE            | FC8459B-8R*2       | PCP: BLADE UNIT, 4H2271-10    | 2               | Prop           |                           |
| GOVERNOR         | E3-9               | GOVERNOR ASSEMBLY, E-3-( )    | 1               | A/C            | (LEFT)                    |
| SPIN MTG KIT     | A-2476-4           | SPINNER - MTG KIT             | 1               | Prop           |                           |
| COUNTERWEIGHT    | B-3202H-4          | PCP:COUNTERWEIGHT             | 1               | Blade          | Blade Component           |
| DE-ICER          | 4H2271-10          | DE-ICE BOOT                   | 1               | Blade          | Supercedes 7931-4E2271-10 |
| DE-ICE KIT PR    | 7931-67-928        | IDS ITEM - DE-ICE KIT         | 1               | Prop           |                           |
| MTG BOLT/STUD    | A-2429-3           | STUD, MOUNTING, 1/2-20        | 6               | Prop           |                           |

# HARTZELL

## APPLICATION GUIDE

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PIPER

IDS No.: 1321 Rev.: 1 IC Date: 08/03/2017

**Model:** PA-34-220T (right side)

**Trade Name:** SENECA V

**Aircraft T.C./STC:** A7SO

**Propeller Model:** BHC-J2YF-2CLUF

**Propeller T.C.:** P37EA

**Blade Model(s):** FJC8459-8R

FJC8459B-8R\*3

**Prop Diameter:** 76"

### Prop Setup:

**Ref. Radius:** 30

**Reverse Angle:** 14.4 +-0.2

**Low Pitch Angle:** NA

**Stud Protrusion** 1.120 +-0.030

**Modifier:**

**Engine Model:** LTSIO-360-RB

**Power:** 220 HP @ 2600 RPM

**Placard/Restr:**

**Notes:** De-ice kit installed by Piper

**Startlock Angle:** 19.9 +-1.5

**Feather/High Angle:** 80.75 +-0.75

**Cwt Angle:**

### Non-HPI Items:

**Non-HPI Spinner:** Piper 37138-6

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>             | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>           |
|------------------|--------------------|--------------------------------|-----------------|----------------|---------------------------|
| PROPELLER        | J2F00075           | BHC-J2YF-2CLUF/FJC8459-8R/SM4  | 1               | A/C            |                           |
| PROPELLER        | J2F00080           | BHC-J2YF-2CLUF/FJC8459B-8R[*3] | 1               | A/C            |                           |
| BLADE            | FJC8459-8R         | PCP:BLADE UNIT, ALUMINUM       | 2               | Prop           |                           |
| BLADE            | FJC8459B-8R*3      | PCP:BLADE UNIT, 4H2200-10      | 2               | Prop           |                           |
| GOVERNOR         | E3-9L              | GOVERNOR ASSEMBLY, E-3-( )     | 1               | A/C            |                           |
| GOVERNOR         | E8-9L              | GOVERNOR ASSEMBLY, E-8 (L)-( ) | 1               | A/C            | WITH SYNCHROPHASER        |
| SPIN MTG KIT     | A-2476-4           | SPINNER - MTG KIT              | 1               | Prop           |                           |
| COUNTERWEIGHT    | B-3202H-4          | PCP:COUNTERWEIGHT              | 1               | Blade          | Blade Component           |
| DE-ICER          | 4H2200-10          | DE-ICE BOOT                    | 1               | Blade          | Supersedes 7931-4E2200-10 |
| DE-ICE KIT PR    | 7931-67-928        | IDS ITEM - DE-ICE KIT          | 1               | Prop           |                           |
| MTG BOLT/STUD    | A-2429-3           | STUD, MOUNTING, 1/2-20         | 6               | Prop           |                           |

# HARTZELL

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PIPER

**Model:** PA-36-285  
**Trade Name:** BRAVE  
**Aircraft T.C./STC:** A9SO, A10SO  
**Propeller Model:** HC-C2YF-1BF  
**Propeller T.C.:** P-920

**IDS No.:** 851      **Rev.:** -      **DM Date:** 09/21/2004

**Modifier:**  
**Engine Model:** 6-285-B, -C, -BA, -CA  
**Power:** 285 HP @ 2000 RPM  
**Placard/Restr:** Avoid continuous ground operation between 1900 and 2300 engine RPM in wind above 15 MPH.

**Blade Model(s):** F9587A  
**Prop Diameter:** 95" TO 93"

**Notes:**

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 18.0 +-0.2  
**Stud Protrusion** 1.450 +-0.030

**Startlock Angle:** NA  
**Feather/High Angle:** 28.0 +-1.0  
**Cwt Angle:**

### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>     | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|------------------------|-----------------|----------------|-----------------|
| BLADE            | F9587A             | BLADE UNIT, ALUMINUM   | 2               | Prop           |                 |
| SPINNER          | A-4203             | SPINNER ASSEMBLY       | 1               | Prop           |                 |
| GOVERNOR         | F4-6A              | IDS Item               | 1               | A/C            |                 |
| SPIN MTG KIT     | A-2476-2           | SPINNER - MTG KIT      | 1               | Prop           |                 |
| MTG BOLT/STUD    | A-2429-4           | STUD, MOUNTING, 1/2-20 | 6               | Prop           |                 |

PIPER

**Model:** PA-36-285  
**Trade Name:** BRAVE  
**Aircraft T.C./STC:** A9SO, A10SO  
**Propeller Model:** HC-C3YF-1RF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** F9684-1  
**Prop Diameter:** 95" TO 93"

**IDS No.:** 852      **Rev.:** -      **DM Date:** 12/16/2002

**Modifier:**  
**Engine Model:** 6-285-B, -C, -BA, -CA  
**Power:** 285 HP @ 2000 RPM  
**Placard/Restr:**

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 16.4 +-0.1  
**Stud Protrusion** 1.450 +-0.030

**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 30.0 +-1.0  
**Cwt Angle:**

### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>       | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|--------------------------|-----------------|----------------|-----------------|
| BLADE            | F9684-1            | PCP:BLADE UNIT, ALUMINUM | 3               | Prop           |                 |
| SPINNER          | A-4203-1           | SPINNER ASSEMBLY         | 1               | Prop           |                 |
| GOVERNOR         | F4-6A              | IDS Item                 | 1               | A/C            |                 |
| SPIN MTG KIT     | A-2476-18          | SPINNER - MTG KIT        | 1               | Prop           |                 |
| MTG BOLT/STUD    | A-2429-4           | STUD, MOUNTING, 1/2-20   | 6               | Prop           |                 |

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**PIPER**

**Model:** PA-36-285  
**Trade Name:** BRAVE  
**Aircraft T.C./STC:** STC-SA1747CE  
**Propeller Model:** HC-C3YR-1( )F  
**Propeller T.C.:** P25EA  
**Blade Model(s):** F8475R  
**Prop Diameter:** 86"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:**  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number | Description              | Quantity | Qty Per | Comments |
|---------------|-------------|--------------------------|----------|---------|----------|
| BLADE         | F8475R      | PCP:BLADE UNIT, ALUMINUM | 3        | Prop    |          |
| MTG BOLT/STUD | A-2067      | STUD, MOUNTING, 1/2-20   | 6        | Prop    |          |

**IDS No.:** 853      **Rev.:** -      **DM Date:** 10/01/1992

**Modifier:** CLINTON ANDERSON  
**Engine Model:** IO-540-K1G5  
**Power:** 300 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** NA  
**Cwt Angle:**

**Non-HPI Governor:**

**PIPER**

**Model:** PA-36-285, -300  
**Trade Name:** BRAVE  
**Aircraft T.C./STC:** STC-SA3452WE  
**Propeller Model:** HC-C3YR-1RF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** F8475R  
**Prop Diameter:** 86" TO 84.5"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 14.0 +-0.1  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number    | Description              | Quantity | Qty Per | Comments                 |
|---------------|----------------|--------------------------|----------|---------|--------------------------|
| PROPELLER     | C3R00087       | HC-C3YR-1RF/F8475R/SM7   | 1        | A/C     |                          |
| BLADE         | F8475R         | PCP:BLADE UNIT, ALUMINUM | 3        | Prop    |                          |
| SPINNER       | A-2295-1       | SPINNER ASSEMBLY         | 1        | Prop    |                          |
| GOVERNOR      | F4-1           | IDS Item                 | 1        | A/C     |                          |
| SPIN MTG KIT  | A-2476-7       | SPINNER - MTG KIT        | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2067         | STUD, MOUNTING, 1/2-20   | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-C3YR-1RF-OH | O/H KIT                  | 1        | Prop    | For aftermarket use only |

**IDS No.:** 857      **Rev.:** 2      **IC Date:** 07/16/2015

**Modifier:** JOHNSTON AIRCRAFT SERVICE  
**Engine Model:** IO-720-A1B  
**Power:** 400 HP @ 2650 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 28.2 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**



# HARTZELL

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PIPER

IDS No.: 2750 Rev.: 4 IC Date: 07/15/2015

**Model:** PA-36-285, -300, -375  
**Trade Name:** BRAVE  
**Aircraft T.C./STC:** SA00014CH  
**Propeller Model:** HC-B3TN-3B or HC-B3TN-3D  
**Propeller T.C.:** P15EA  
**Blade Model(s):** T10282N-4R  
**Prop Diameter:** 98-94"

**Modifier:** Souther Field Aviation Inc.  
**Engine Model:** PT6(A,B)-20, -20A, -20B, -6/C20  
**Power:** 375 HP @ 2200 RPM  
**Placard/Restr:**  
**Notes:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** -8.0 +-0.5  
**Low Pitch Angle:** 16.0 +-0.2  
**Stud Protrusion**

**Startlock Angle:**  
**Feather/High Angle:** 90.0 +-0.5  
**Cwt Angle:** POSITIVE

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type                      | Item Number   | Description                       | Quantity | Qty Per | Comments                                       |
|--------------------------------|---------------|-----------------------------------|----------|---------|--|
| PROPELLER                      | B3N10188S     | HC-B3TN-3B/T10282N-4R/C-3065-P    | 1        | A/C     |  |
| PROPELLER                      | B3N10510S     | HC-B3TN-3D/T10282N-4R/C-3065-P    | 1        | A/C     |  |
| BLADE                          | T10282N-4R    | PCP:BLADE UNIT, ALUMINUM          | 3        | Prop    |  |
| SPINNER                        | C-3065        | SPINNER ASSEMBLY                  | 1        | A/C     |  |
| SPINNER                        | C-3065-P      | SPINNER ASSEMBLY                  | 1        | A/C     |  |
| SPIN MTG KIT                   | B-3384-4H     | BOLT, 1/4-28, HEX HEAD            | 12       | Prop    |  |
| SPIN MTG KIT                   | B-3808-4      | NUT,HEX,SELF-LOCKING              | 12       | Prop    |  |
| SPIN MTG KIT                   | B-3851-0432   | WASHER                            | 24       | Prop    |  |
| COUNTERWEIGHT SLUG A-3039      |               | SLUG, COUNTERWEIGHT               | 1        | Blade   |  |
| COUNTERWEIGHT SLUG A-890-6     |               | PCP:SLUG, COUNTERWEIGHT           | 1        | Blade   |  |
| COUNTERWEIGHT SLUG B-3384-21H  |               | BOLT, 1/4-28, HEX HEAD            | 2        | Blade   |  |
| COUNTERWEIGHT SLUG B-3851-0432 |               | WASHER                            | 2        | Blade   | Optional                                       |
| COUNTERWEIGHT SLUG B-3851-0463 |               | WASHER                            | 2        | Blade   | Optional                                       |
| MTG BOLT/STUD                  | B-3339        | BOLT, MOUNTING, 9/16-18, 12 POINT | 8        | Prop    |  |
| MISC ACCES                     | A-3044        | BLOCK, BETA FEEDBACK- ASSEMBLY    | 1        | Prop    |  |
| OVERHAUL KIT                   | HC-B3TN-3B-OH | O/H KIT                           | 1        | Prop    | For aftermarket use only(ALSO REPLACES A-2741) |
| OVERHAUL KIT                   | HC-B3TN-3D-OH | O/H KIT                           | 1        | Prop    | For aftermarket use only                       |

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**PIPER**

**Model:** PA-36-300  
**Trade Name:** BRAVE  
**Aircraft T.C./STC:** A9SO, A10SO  
**Propeller Model:** HC-C2YK-1( )F  
**Propeller T.C.:** P-920  
**Blade Model(s):** F8475R  
**Prop Diameter:** 84" TO 82.3"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.0 +-0.2  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:** PIPER

**Hartzell Approved Items:**

| Item Type     | Item Number    | Description               | Quantity | Qty Per | Comments                 |
|---------------|----------------|---------------------------|----------|---------|--------------------------|
| PROPELLER     | C2K00140       | HC-C2YK-1BF/F8475R        | 1        | A/C     |                          |
| BLADE         | F8475R         | PCP:BLADE UNIT, ALUMINUM  | 2        | Prop    |                          |
| GOVERNOR      | F4-11A         | GOVERNOR ASSEMBLY, F-4( ) | 1        | A/C     |                          |
| MTG BOLT/STUD | A-2067         | STUD, MOUNTING, 1/2-20    | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-C2YK-1BF-OH | O/H KIT                   | 1        | Prop    | For aftermarket use only |

**IDS No.:** 854      **Rev.:** 1      **IC Date:** 07/07/2015

**Modifier:**  
**Engine Model:** IO-540-K1G5  
**Power:** 300 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 29.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

**PIPER**

**Model:** PA-36-300  
**Trade Name:** BRAVE  
**Aircraft T.C./STC:** A9SO, A10SO  
**Propeller Model:** HC-C3YR-1( )F  
**Propeller T.C.:** P25EA  
**Blade Model(s):** F8468A-6  
**Prop Diameter:** 80" TO 78"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 11.8 +-0.2  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number    | Description                  | Quantity | Qty Per | Comments                 |
|---------------|----------------|------------------------------|----------|---------|--------------------------|
| PROPELLER     | C3R00060       | HC-C3YR-1RF/F8468A-6         | 1        | A/C     |                          |
| PROPELLER     | C3R00060KD     | HC-C3YR-1RF/F8468A-6         | 1        | A/C     |                          |
| BLADE         | F8468A-6       | PCP:BLADE UNIT, ALUM [1,1,1] | 3        | Prop    |                          |
| SPINNER       | 835-36         | SPINNER ASSEMBLY             | 1        | Prop    |                          |
| SPINNER       | 835-36P        | SPINNER ASSEMBLY             | 1        | Prop    |                          |
| GOVERNOR      | F4-11A         | GOVERNOR ASSEMBLY, F-4( )    | 1        | A/C     |                          |
| MTG BOLT/STUD | A-2067         | STUD, MOUNTING, 1/2-20       | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-C3YR-1RF-OH | O/H KIT                      | 1        | Prop    | For aftermarket use only |

**IDS No.:** 855      **Rev.:** 1      **IC Date:** 07/16/2015

**Modifier:**  
**Engine Model:** IO-540-KIG5  
**Power:** 300 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 26.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

# HARTZELL

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**PIPER**

**Model:** PA-36-(285, 300, 375)\*  
**Trade Name:** BRAVE  
**Aircraft T.C./STC:** SA4522NM  
**Propeller Model:** HC-C3YR-1RF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** F8483  
**Prop Diameter:** 86.0" TO 80.0"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.0 +-0.1  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number    | Description              | Quantity | Qty Per | Comments                 |
|---------------|----------------|--------------------------|----------|---------|--------------------------|
| PROPELLER     | C3R00100       | HC-C3YR-1RF/F8483/SM7    | 1        | A/C     |                          |
| PROPELLER     | C3R00100KD     | HC-C3YR-1RF/F8483/SM7    | 1        | A/C     |                          |
| BLADE         | F8483          | PCP:BLADE UNIT, ALUMINUM | 3        | Prop    |                          |
| SPINNER       | A-2295-1       | SPINNER ASSEMBLY         | 1        | Prop    |                          |
| SPIN MTG KIT  | A-2476-7       | SPINNER - MTG KIT        | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2067         | STUD, MOUNTING, 1/2-20   | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-C3YR-1RF-OH | O/H KIT                  | 1        | Prop    | For aftermarket use only |

**IDS No.:** 858      **Rev.:** 2      **IC Date:** 07/16/2015

**Modifier:** JOHNSTON AIRCRAFT SERVICE  
**Engine Model:** IO-720-A1B, -D1C, -D1CD  
**Power:** 400 HP @ 2650 RPM  
**Placard/Restr:**

**Notes:** \* PA-36-285 and -300 must be previously modified with STC SA3452WE.

**Startlock Angle:** NA  
**Feather/High Angle:** 30.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

**PIPER**

**Model:** PA-36-375  
**Trade Name:** BRAVE  
**Aircraft T.C./STC:** A9SO, A10SO  
**Propeller Model:** HC-C3YR-1RF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** F8475R  
**Prop Diameter:** 86" TO 84"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.3 +-0.2  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number    | Description                | Quantity | Qty Per | Comments                 |
|---------------|----------------|----------------------------|----------|---------|--------------------------|
| PROPELLER     | C3R00086       | HC-C3YR-1RF/F8475R         | 1        | A/C     |                          |
| PROPELLER     | C3R00086KD     | HC-C3YR-1RF/F8475R         | 1        | A/C     |                          |
| BLADE         | F8475R         | PCP:BLADE UNIT, ALUMINUM   | 3        | Prop    |                          |
| SPINNER       | 835-36         | SPINNER ASSEMBLY           | 1        | Prop    |                          |
| GOVERNOR      | F4-23          | GOVERNOR ASSEMBLY, F-4-( ) | 1        | A/C     |                          |
| MTG BOLT/STUD | A-2067         | STUD, MOUNTING, 1/2-20     | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-C3YR-1RF-OH | O/H KIT                    | 1        | Prop    | For aftermarket use only |

**IDS No.:** 856      **Rev.:** 1      **IC Date:** 07/16/2015

**Modifier:**  
**Engine Model:** IO-720-D1C, D1CD  
**Power:** 375 HP @ 2500 RPM  
**Placard/Restr:**

**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 27.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

# HARTZELL

## APPLICATION GUIDE 159

**PIPER**

**Model:** PA-39 (left side)  
**Trade Name:** TWIN COMANCHE C/R  
**Aircraft T.C./STC:** A1EA  
**Propeller Model:** HC-E2YL-2BSF  
**Propeller T.C.:** P9EA  
**Blade Model(s):** F7663-4  
**Prop Diameter:** 72" TO 70"

**IDS No.:** 859      **Rev.:** -      **DM Date:** 09/20/2004

**Modifier:**  
**Engine Model:** IO-320-B1A  
**Power:** 160 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.0 +-0.2  
**Stud Protrusion**

**Startlock Angle:** 17.5 +-1.5  
**Feather/High Angle:** 78.0 +-1.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:** PIPER

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>             | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|--------------------------------|-----------------|----------------|-----------------|
| PROPELLER        | E2L00085           | HC-E2YL-2BSF/F7663-4/SM14      | 1               | A/C            |                 |
| BLADE            | F7663-4            | PCP:BLADE UNIT, ALUMINUM       | 2               | Prop           |                 |
| GOVERNOR         | F6-3A              | GOVERNOR ASSEMBLY, F-6- ( )    | 1               | Prop           |                 |
| SPIN MTG KIT     | A-2476-14          | SPINNER - MTG KIT              | 1               | Prop           |                 |
| MTG BOLT/STUD    | A-2247-1           | STUD, MOUNTING,7/16-20,DRILLED | 2               | Prop           |                 |
| MTG BOLT/STUD    | B-6489-25          | BOLT,7/16-20,HEX HEAD          | 4               | Prop           |                 |

**PIPER**

**Model:** PA-39 (right side)  
**Trade Name:** TWIN COMANCHE C/R  
**Aircraft T.C./STC:** A1EA  
**Propeller Model:** HC-E2YL-2BLSF  
**Propeller T.C.:** P9EA  
**Blade Model(s):** FJ7663-4  
**Prop Diameter:** 72" TO 70"

**IDS No.:** 860      **Rev.:** 1      **IC Date:** 07/07/2015

**Modifier:**  
**Engine Model:** LIO-320-B1A  
**Power:** 160 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.0 +-0.2  
**Stud Protrusion**

**Startlock Angle:** 17.5 +-1.5  
**Feather/High Angle:** 78.0 +-1.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:** PIPER

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>             | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|--------------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | E2L00059           | HC-E2YL-2BLSF/FJ7663-4/SM14    | 1               | A/C            |                          |
| BLADE            | FJ7663-4           | PCP:BLADE UNIT, ALUMINUM       | 2               | Prop           |                          |
| GOVERNOR         | F6-3AL             | GOVERNOR ASSEMBLY, F-6- ( )    | 1               | Prop           |                          |
| SPIN MTG KIT     | A-2476-14          | SPINNER - MTG KIT              | 1               | Prop           |                          |
| MTG BOLT/STUD    | A-2247-1           | STUD, MOUNTING,7/16-20,DRILLED | 2               | Prop           |                          |
| MTG BOLT/STUD    | B-6489-25          | BOLT,7/16-20,HEX HEAD          | 4               | Prop           |                          |
| OVERHAUL KIT     | HC-E2YL-2BLSF      | O/H KIT                        | 1               | Prop           | For aftermarket use only |

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**PIPER**

**Model:** PA-39 (left side)  
**Trade Name:** TWIN COMANCHE C/R  
**Aircraft T.C./STC:** STC-SA214CH  
**Propeller Model:** HC-E2YL-2BSF  
**Propeller T.C.:** P9EA  
**Blade Model(s):** F7663D-4  
**Prop Diameter:** 72"-70"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.0 +-0.2  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number | Description                    | Quantity | Qty Per | Comments |
|---------------|-------------|--------------------------------|----------|---------|----------|
| BLADE         | F7663D-4    | PCP:BLADE UNIT, ALUMINUM       | 2        | Prop    |          |
| SPINNER       | D-5749-P    | SPINNER ASSEMBLY               | 1        | Prop    |          |
| SPIN MTG KIT  | A-2476-8    | SPINNER - MTG KIT              | 1        | Prop    |          |
| MTG BOLT/STUD | A-2247-1    | STUD, MOUNTING,7/16-20,DRILLED | 2        | Prop    |          |
| MTG BOLT/STUD | B-6489-25   | BOLT,7/16-20,HEX HEAD          | 4        | Prop    |          |

**IDS No.:** 1213      **Rev.:** 1      **IC Date:** 05/13/2021

**Modifier:** KNOTS 2 U INC.  
**Engine Model:** IO-320-B1A  
**Power:** 160 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** 17.5 +-1.5  
**Feather/High Angle:** 78.0 +-0.5  
**Cwt Angle:**

**Non-HPI Governor:**

**PIPER**

**Model:** PA-39 (right side)  
**Trade Name:** TWIN COMANCHE C/R  
**Aircraft T.C./STC:** STC-SA214CH  
**Propeller Model:** HC-E2YL-2BLSF  
**Propeller T.C.:** P9EA  
**Blade Model(s):** FJ7663D-4  
**Prop Diameter:** 72"-70"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.0 +-0.2  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number   | Description                    | Quantity | Qty Per | Comments                 |
|---------------|---------------|--------------------------------|----------|---------|--------------------------|
| PROPELLER     | E2L00060      | HC-E2YL-2BLSF/FJ7663D-4/SM8    | 1        | A/C     |                          |
| BLADE         | FJ7663D-4     | PCP:BLADE UNIT, ALUMINUM       | 2        | Prop    |                          |
| SPINNER       | D-5749-LP     | SPINNER ASSEMBLY               | 1        | Prop    |                          |
| SPIN MTG KIT  | A-2476-8      | SPINNER - MTG KIT              | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2247-1      | STUD, MOUNTING,7/16-20,DRILLED | 2        | Prop    |                          |
| MTG BOLT/STUD | B-6489-25     | BOLT,7/16-20,HEX HEAD          | 4        | Prop    |                          |
| OVERHAUL KIT  | HC-E2YL-2BLSF | O/H KIT                        | 1        | Prop    | For aftermarket use only |

**IDS No.:** 1212      **Rev.:** 2      **IC Date:** 05/13/2021

**Modifier:** KNOTS 2 U INC.  
**Engine Model:** LIO-320-B1A  
**Power:** 160 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** 17.5 +-1.5  
**Feather/High Angle:** 78.0 +-0.5  
**Cwt Angle:**

**Non-HPI Governor:**

# HARTZELL

## APPLICATION GUIDE

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PIPER

IDS No.: 861 Rev.: - DM Date: 06/06/2006

**Model:** PA-40 (left side)  
**Trade Name:** ARAPAHO  
**Aircraft T.C./STC:** A1EA  
**Propeller Model:** HC-E2YL-2BS(F)  
**Propeller T.C.:** P9EA  
**Blade Model(s):** F7663-4  
F7663-4R  
**Prop Diameter:** 72" TO 70"

**Modifier:**  
**Engine Model:** IO-320-B1A  
**Power:** 160 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.0 +-0.2  
**Stud Protrusion**

**Startlock Angle:** 17.5 +-1.5  
**Feather/High Angle:** 76.5 +-0.5  
**Cwt Angle:**

### Non-HPI Items:

**Non-HPI Spinner:** PIPER

**Non-HPI Governor:**

### Hartzell Approved Items:

| Item Type     | Item Number | Description                    | Quantity | Qty Per | Comments |
|---------------|-------------|--------------------------------|----------|---------|----------|
| BLADE         | F7663-4     | PCP:BLADE UNIT, ALUMINUM       | 2        | Prop    |          |
| BLADE         | F7663-4R    | PCP:BLADE UNIT, ALUMINUM       | 2        | Prop    |          |
| GOVERNOR      | F6-3A       | GOVERNOR ASSEMBLY, F-6-( )     | 1        | Prop    |          |
| MTG BOLT/STUD | A-2247-1    | STUD, MOUNTING,7/16-20,DRILLED | 2        | Prop    |          |
| MTG BOLT/STUD | B-6489-25   | BOLT,7/16-20,HEX HEAD          | 4        | Prop    |          |

PIPER

IDS No.: 862 Rev.: - DM Date: 06/06/2006

**Model:** PA-40 (right side)  
**Trade Name:** ARAPAHO  
**Aircraft T.C./STC:** A1EA  
**Propeller Model:** HC-E2YL-2BLS(F)  
**Propeller T.C.:** P9EA  
**Blade Model(s):** FJ7663-4  
FJ7663-4R  
**Prop Diameter:** 72" TO 70"

**Modifier:**  
**Engine Model:** LIO-320-B1A  
**Power:** 160 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.0 +-0.2  
**Stud Protrusion**

**Startlock Angle:** 17.5 +-1.5  
**Feather/High Angle:** 76.5 +-0.5  
**Cwt Angle:**

### Non-HPI Items:

**Non-HPI Spinner:** PIPER

**Non-HPI Governor:**

### Hartzell Approved Items:

| Item Type     | Item Number | Description                    | Quantity | Qty Per | Comments |
|---------------|-------------|--------------------------------|----------|---------|----------|
| BLADE         | FJ7663-4    | PCP:BLADE UNIT, ALUMINUM       | 2        | Prop    |          |
| BLADE         | FJ7663-4R   | PCP:BLADE UNIT, ALUMINUM       | 2        | Prop    |          |
| GOVERNOR      | F6-3AL      | GOVERNOR ASSEMBLY, F-6-( )     | 1        | Prop    |          |
| MTG BOLT/STUD | A-2247-1    | STUD, MOUNTING,7/16-20,DRILLED | 2        | Prop    |          |
| MTG BOLT/STUD | B-6489-25   | BOLT,7/16-20,HEX HEAD          | 4        | Prop    |          |

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## APPLICATION GUIDE

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PIPER

IDS No.: 2741      Rev.: 2      IC      Date: 07/16/2015

**Model:** PA-24-400  
**Trade Name:** COMMANCHE  
**Aircraft T.C./STC:** 337 FORM  
**Propeller Model:** HC-C3YR-1RF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** F8475-5Q  
**Prop Diameter:** 81"

**Modifier:** MIKE SMITH  
**Engine Model:** IO-720-A1B  
**Power:** 400 HP @ 2650 RPM  
**Placard/Restr:**  
**Notes:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 14.0 +-0.2  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 33.0 +-1.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>           | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|------------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | C3R00093           | HC-C3YR-1RF/F8475-5Q/SM25    | 1               | A/C            |                          |
| BLADE            | F8475-5Q           | PCP:BLADE UNIT, ALUM [1,1,1] | 3               | Prop           |                          |
| SPINNER          | C-3570             | SPINNER ASSEMBLY             | 1               | Prop           |                          |
| SPINNER          | C-3570-P           | SPINNER ASSEMBLY             | 1               | Prop           |                          |
| GOVERNOR         | F4-1D              | GOVERNOR ASSEMBLY, F-4-( )   | 1               | A/C            |                          |
| SPIN MTG KIT     | A-2476-25          | SPINNER - MTG KIT            | 1               | Prop           |                          |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20       | 6               | Prop           |                          |
| OVERHAUL KIT     | HC-C3YR-1RF-OH     | O/H KIT                      | 1               | Prop           | For aftermarket use only |

# HARTZELL

## APPLICATION GUIDE

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PIPER

IDS No.: 863 Rev.: 1 D Date: 01/10/2011

**Model:** PA-42  
**Trade Name:** CHEYENNE III  
**Aircraft T.C./STC:** A23SO  
**Propeller Model:** HC-B3TN-3B, -3K  
**Propeller T.C.:** P15EA  
**Blade Model(s):** T10173AB-6Q  
 T10173ANB-6Q  
**Prop Diameter:** 95.5" TO 95"

**Modifier:**  
**Engine Model:** PT6A-41  
**Power:** 720 HP @ 2000 RPM  
**Placard/Restr:**  
**Notes:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** -6.5 +/-0.5  
**Low Pitch Angle:** 27.0 +/-0.1  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 87.5 +/-0.5  
**Cwt Angle:** Positive

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u>               | <u>Item Number</u> | <u>Description</u>                | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|--------------------------------|--------------------|-----------------------------------|-----------------|----------------|--------------------------|
| BLADE                          | T10173AB-6Q        | BLADE, 4E1188-5 BOOT              | 3               | Prop           |                          |
| BLADE                          | T10173ANB-6Q       | PCP:BLADE UNIT, ALUMINUM          | 3               | Prop           |                          |
| SPINNER                        | D-4258             | BULKHEAD UNIT                     | 1               | Prop           |                          |
| COUNTERWEIGHT SLUG A-3039      |                    | SLUG, COUNTERWEIGHT               | 1               | Blade          |                          |
| COUNTERWEIGHT SLUG A-890-8     |                    | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          |                          |
| COUNTERWEIGHT SLUG B-3384-18H  |                    | BOLT, 1/4-28, HEX HEAD            | 2               | Blade          |                          |
| COUNTERWEIGHT SLUG B-3851-0432 |                    | WASHER                            | 2               | Blade          | Optional                 |
| COUNTERWEIGHT SLUG B-3851-0463 |                    | WASHER                            | 2               | Blade          | Optional                 |
| DE-ICER                        | 4H1188-5           | DE-ICE BOOT                       | 1               | Blade          | Supersedes 7931-4E1188-5 |
| DE-ICE KIT PR                  | 7931-65-040-1      | DE-ICE KIT (ONE PROP)             | 1               | Prop           |                          |
| MTG BOLT/STUD                  | B-3339             | BOLT, MOUNTING, 9/16-18, 12 POINT | 8               | Prop           |                          |



# HARTZELL

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**PIPER**

IDS No.: 864      Rev.: 2      BC Date: 04/07/2014

**Model:** PA-42-720, -720R  
**Trade Name:** CHEYENNE IIIA  
**Aircraft T.C./STC:** A23SO,A32SO  
**Propeller Model:** HC-B3TN-3B, -3K  
**Propeller T.C.:** P15EA  
**Blade Model(s):** T10173AB-6Q  
 T10173ANB-6Q  
**Prop Diameter:** 95.5" TO 95"

**Modifier:**  
**Engine Model:** PT6A-61  
**Power:** 720 HP @ 2000 RPM  
**Placard/Restr:**  
**Notes:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** -6.5 +/-0.5  
**Low Pitch Angle:** 27.0 +/-0.1  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 87.5 +/-0.5  
**Cwt Angle:** Positive

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u>               | <u>Item Number</u> | <u>Description</u>                | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|--------------------------------|--------------------|-----------------------------------|-----------------|----------------|--------------------------|
| PROPELLER                      | B3N10719           | HC-B3TN-3K/T10173ANB-6Q/DE-ICE    | 2               | A/C            |                          |
| PROPELLER                      | B3N10719KD         | HC-B3TN-3K/T10173ANB-6Q/DE-ICE    | 1               | A/C            |                          |
| BLADE                          | T10173AB-6Q        | BLADE, 4E1188-5 BOOT              | 3               | Prop           |                          |
| BLADE                          | T10173ANB-6Q       | PCP:BLADE UNIT, ALUMINUM          | 3               | Prop           |                          |
| SPINNER                        | D-4258             | BULKHEAD UNIT                     | 1               | Prop           |                          |
| SPIN MTG KIT                   | B-3384-4H          | BOLT, 1/4-28, HEX HEAD            | 12              | Prop           |                          |
| SPIN MTG KIT                   | B-3808-4           | NUT,HEX,SELF-LOCKING              | 12              | Prop           |                          |
| SPIN MTG KIT                   | B-3851-0432        | WASHER                            | 24              | Prop           |                          |
| SP MT KIT DE-ICE               | A-2070-7           | SCREW, 1/4-28, BUTTON HEAD        | 12              | Prop           |                          |
| SP MT KIT DE-ICE               | B-3808-4           | NUT,HEX,SELF-LOCKING              | 12              | Prop           |                          |
| SP MT KIT DE-ICE               | B3837-0432         | IDS Item                          | 12              | Prop           |                          |
| SP MT KIT DE-ICE               | B-7077-52          | BELLEVILLE SPRING WASHER          | 12              | Prop           |                          |
| COUNTERWEIGHT SLUG A-3039      |                    | SLUG, COUNTERWEIGHT               | 1               | Blade          |                          |
| COUNTERWEIGHT SLUG A-890-8     |                    | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          |                          |
| COUNTERWEIGHT SLUG B-3384-18H  |                    | BOLT, 1/4-28, HEX HEAD            | 2               | Blade          |                          |
| COUNTERWEIGHT SLUG B-3851-0432 |                    | WASHER                            | 2               | Blade          | Optional                 |
| COUNTERWEIGHT SLUG B-3851-0463 |                    | WASHER                            | 2               | Blade          | Optional                 |
| DE-ICER                        | 4H1188-5           | DE-ICE BOOT                       | 1               | Blade          | Supersedes 7931-4E1188-5 |
| DE-ICE KIT PR                  | 7931-65-040-1      | DE-ICE KIT (ONE PROP)             | 1               | Prop           |                          |
| MTG BOLT/STUD                  | B-3339             | BOLT, MOUNTING, 9/16-18, 12 POINT | 8               | Prop           |                          |
| MISC ACCES                     | A-3044             | BLOCK, BETA FEEDBACK- ASSEMBLY    | 1               | Prop           |                          |

# HARTZELL

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PIPER

IDS No.: 1052 Rev.: 2 IC Date: 07/15/2015

Model: PA-42-720R  
 Trade Name: CHEYENNE III  
 Aircraft T.C./STC: A32SO  
 Propeller Model: HC-B3TN-3K  
 Propeller T.C.: P15EA  
 Blade Model(s): T10173DB-6Q  
 T10173DDB-6Q

Modifier:  
 Engine Model: PT6A-61  
 Power: 850 HP @ 2000 RPM  
 Placard/Restr:  
 Notes:

Prop Diameter: 95"

**Prop Setup:**

Ref. Radius: 30  
 Reverse Angle: -6.5 +/-0.5  
 Low Pitch Angle: 27.0 +/-0.1  
 Stud Protrusion

Startlock Angle: NA  
 Feather/High Angle: 87.5 +/-0.5  
 Cwt Angle: 2.0 +/-1.0

**Non-HPI Items:**

Non-HPI Spinner:

Non-HPI Governor:

**Hartzell Approved Items:**

| Item Type          | Item Number   | Description                       | Quantity | Qty Per | Comments                 |
|--------------------|---------------|-----------------------------------|----------|---------|--------------------------|
| PROPELLER          | B3N10715      | HC-B3TN-3K/T10173DDB-6Q           | 2        | A/C     |                          |
| BLADE              | T10173DB-6Q   | BLADE                             | 3        | Prop    |                          |
| BLADE              | T10173DDB-6Q  | PCP:BLADE UNIT, ALUMINUM          | 3        | Prop    |                          |
| SPINNER            | D-4258        | BULKHEAD UNIT                     | 1        | Prop    |                          |
| SP MT KIT DE-ICE   | A-2070-7      | SCREW, 1/4-28, BUTTON HEAD        | 12       | Prop    |                          |
| SP MT KIT DE-ICE   | B-3837-0432   | WASHER, CORROSION RESISTANT       | 12       | Prop    |                          |
| SP MT KIT DE-ICE   | B-7077-52     | BELLEVILLE SPRING WASHER          | 12       | Prop    |                          |
| COUNTERWEIGHT SLUG | B-3851-0432   | WASHER                            | 2        | Blade   | Optional                 |
| DE-ICER            | 4H1188-5      | DE-ICE BOOT                       | 1        | Blade   | Supersedes 7931-4E1188-5 |
| DE-ICE KIT PR      | 7931-65-040-1 | DE-ICE KIT (ONE PROP)             | 1        | Prop    |                          |
| MTG BOLT/STUD      | B-3339        | BOLT, MOUNTING, 9/16-18, 12 POINT | 8        | Prop    |                          |
| OVERHAUL KIT       | HC-B3TN-3K-OH | O/H KIT                           | 1        | Prop    | For aftermarket use only |

# HARTZELL

## APPLICATION GUIDE

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PIPER

IDS No.: 867 Rev.: 1 BC Date: 09/25/2014

**Model:** PA-44-180 (left side)  
**Trade Name:** SEMINOLE  
**Aircraft T.C./STC:** A19SO  
**Propeller Model:** HC-C3YR-2EUF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** FC7663-5R  
**Prop Diameter:** 73" TO 72"

**Modifier:**  
**Engine Model:** O-360-E1A6D  
**Power:** 180 HP @ 2700 RPM  
**Placard/Restr:**

**Notes:** Apply green dot to cylinder for B-1106 Spring Kit; C-4558-3 replaces C-4558 for new production

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 10.6 +-0.1  
**Stud Protrusion**

**Startlock Angle:** 16.1 +-1.5  
**Feather/High Angle:** 82.0 +-1.0  
**Cwt Angle:**

### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>          | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|-----------------------------|-----------------|----------------|-----------------|
| PROPELLER        | C3R00196           | HC-C3YR-2EUF/FC7663-5R/SM35 | 1               | A/C            |                 |
| BLADE            | FC7663-5R          | PCP:BLADE UNIT, ALUMINUM    | 3               | Prop           |                 |
| SPINNER          | C-4558-3           | SPINNER ASSEMBLY            | 1               | Prop           |                 |
| GOVERNOR         | E3-2               | GOVERNOR ASSEMBLY, E-3-( )  | 1               | Prop           |                 |
| SPIN MTG KIT     | A-2476-35          | SPINNER - MTG KIT           | 1               | Prop           |                 |
| COUNTERWEIGHT    | B-3202H-5          | PCP:COUNTERWEIGHT           | 1               | Blade          | Blade Component |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20      | 6               | Prop           |                 |

# HARTZELL

## APPLICATION GUIDE

159

PIPER

IDS No.: 865 Rev.: 2 IC Date: 01/31/2018

**Model:** PA-44-180 (left side)

**Trade Name:** SEMINOLE

**Aircraft T.C./STC:** A19SO

**Propeller Model:** HC-C2YR-2CEUF

**Propeller T.C.:** P-920

**Blade Model(s):** FC7666A-2R

**Prop Diameter:** 74.0" TO 72.0"

**Modifier:**

**Engine Model:** O-360-A1H6, -E1A6D

**Power:** 180 HP @ 2700 RPM

**Placard/Restr:**

**Notes:** "K" Flange approved. Apply green dot to cylinder for B-1106 Spring Kit. Stamp "PS50077-39 on counterweight boss for FC7666A-2R

### Prop Setup:

**Ref. Radius:** 30

**Reverse Angle:** NA

**Low Pitch Angle:** 12.4 +-0.2

**Stud Protrusion**

**Startlock Angle:** 17.9 +-1.5

**Feather/High Angle:** 80.0 +-1.0

**Cwt Angle:**

### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>            | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|-------------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | C2R00100           | HC-C2YR-2CEUF/FC7666A-2R/SM4  | 1               | A/C            |                          |
| BLADE            | FC7666A-2R         | PCP:BLADE UNIT, B-3202H-9 CWT | 2               | Prop           |                          |
| SPINNER          | C-2285-3           | SPINNER ASSEMBLY              | 1               | Prop           |                          |
| GOVERNOR         | E3-2               | GOVERNOR ASSEMBLY, E-3-( )    | 1               | Prop           |                          |
| GOVERNOR         | U3-15              | GOVERNOR ASSEMBLY, U-3-( )    | 1               | Prop           | For -A1H6                |
| SPIN MTG KIT     | A-2476-4           | SPINNER - MTG KIT             | 1               | Prop           |                          |
| COUNTERWEIGHT    | B-3202H-9          | PCP:COUNTERWEIGHT             | 1               | Blade          | Blade Component          |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20        | 6               | Prop           |                          |
| OVERHAUL KIT     | HC-C2YR-2CEUF      | O/H KIT                       | 1               | Prop           | For aftermarket use only |

# HARTZELL

## APPLICATION GUIDE

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PIPER

IDS No.: 866 Rev.: 2 IC Date: 01/31/2018

**Model:** PA-44-180 (right side)

**Trade Name:** SEMINOLE

**Aircraft T.C./STC:** A19SO

**Propeller Model:** HC-C2YR-2CLEUF

**Propeller T.C.:** P-920

**Blade Model(s):** FJC7666A-2R

**Prop Diameter:** 74.0" TO 72.0"

**Modifier:**

**Engine Model:** LO-360-A1H6, -E1A6D

**Power:** 180 HP @ 2700 RPM

**Placard/Restr:**

**Notes:** "K" Flange approved. Apply green dot to cylinder for B-1106 Spring Kit. Stamp "PS50077-40 on counterweight boss for FJC7666A-2R

### Prop Setup:

**Ref. Radius:** 30

**Reverse Angle:** NA

**Low Pitch Angle:** 12.4 +-0.2

**Stud Protrusion**

**Startlock Angle:** 17.9 +-1.5

**Feather/High Angle:** 80.0 +-1.0

**Cwt Angle:**

### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>             | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>             |
|------------------|--------------------|--------------------------------|-----------------|----------------|-----------------------------|
| PROPELLER        | C2R00140           | HC-C2YR-2CLEUF/FJC7666A-2R/SM4 | 1               | A/C            |                             |
| BLADE            | FJC7666A-2R        | PCP:BLADE UNIT, ALUMINUM       | 2               | Prop           |                             |
| SPINNER          | C-2285-3L          | SPINNER ASSEMBLY               | 1               | Prop           |                             |
| GOVERNOR         | E3-2L              | GOVERNOR ASSEMBLY, E-3-( )     | 1               | Prop           | Primary                     |
| GOVERNOR         | E8-2L              | GOVERNOR ASSEMBLY, E-8 (L)-( ) | 1               | Prop           | Secondary                   |
| GOVERNOR         | U3-15L             | GOVERNOR ASSEMBLY, U-3-( )     | 1               | Prop           | Use with LO-360-A1H6 engine |
| SPIN MTG KIT     | A-2476-4           | SPINNER - MTG KIT              | 1               | Prop           |                             |
| COUNTERWEIGHT    | B-3202H-9L         | PCP:COUNTERWEIGHT              | 1               | Blade          | Blade Component             |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20         | 6               | Prop           |                             |
| OVERHAUL KIT     | HC-C2YR-2CLEUF     | O/H KIT                        | 1               | Prop           | For aftermarket use only    |

# HARTZELL

## APPLICATION GUIDE

159

PIPER

IDS No.: 868 Rev.: 1 BC Date: 09/25/2014

**Model:** PA-44-180 (right side)  
**Trade Name:** SEMINOLE  
**Aircraft T.C./STC:** A19SO  
**Propeller Model:** HC-C3YR-2LEUF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** FJC7663-5R  
**Prop Diameter:** 73" TO 72"

**Modifier:**  
**Engine Model:** LO-360-E1A6D  
**Power:** 180 HP @ 2700 RPM  
**Placard/Restr:**

**Notes:** Apply green dot to cylinder for B-1106 Spring Kit; C-4558-3 replaces C-4558 for new production

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 10.6 +-0.1  
**Stud Protrusion**

**Startlock Angle:** 16.1 +-1.5  
**Feather/High Angle:** 82.0 +-1.0  
**Cwt Angle:**

### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>            | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|-------------------------------|-----------------|----------------|-----------------|
| PROPELLER        | C3R00181           | HC-C3YR-2LEUF/FJC7663-5R/SM35 | 1               | A/C            |                 |
| BLADE            | FJC7663-5R         | PCP:BLADE UNIT, ALUMINUM      | 3               | Prop           |                 |
| SPINNER          | C-4558-3           | SPINNER ASSEMBLY              | 1               | Prop           |                 |
| GOVERNOR         | E3-2L              | GOVERNOR ASSEMBLY, E-3-( )    | 1               | Prop           |                 |
| GOVERNOR         | E8-2L              | GOVERNOR ASSEMBLY, E-8 (L)-() | 1               | Prop           |                 |
| SPIN MTG KIT     | A-2476-35          | SPINNER - MTG KIT             | 1               | Prop           |                 |
| COUNTERWEIGHT    | B-3202H-5          | PCP:COUNTERWEIGHT             | 1               | Blade          | Blade Component |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20        | 6               | Prop           |                 |

# HARTZELL

## APPLICATION GUIDE

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PIPER

IDS No.: 869 Rev.: 1 IC Date: 07/07/2015

**Model:** PA-44-180T (left side)  
**Trade Name:** TURBO SEMINOLE  
**Aircraft T.C./STC:** A19SO  
**Propeller Model:** HC-C2YR-2CEUF  
**Propeller T.C.:** P-920  
**Blade Model(s):** FC7666A-2R  
 FC7666AB-2R  
**Prop Diameter:** 74.0" TO 72.0"

**Modifier:**  
**Engine Model:** TO-360-E1A6D  
**Power:** 180 HP @ 2575 RPM  
**Placard/Restr:**  
**Notes:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.1 +-0.2  
**Stud Protrusion**

**Startlock Angle:** 18.6 +-1.5  
**Feather/High Angle:** 80.0 +-1.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>            | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>           |
|------------------|--------------------|-------------------------------|-----------------|----------------|---------------------------|
| PROPELLER        | C2R00101           | HC-C2YR-2CEUF/FC7666A-2R/SM4  | 1               | A/C            |                           |
| PROPELLER        | C2R00150           | HC-C2YR-2CEUF/FC7666AB-2R/SM4 | 0               |                |                           |
| BLADE            | FC7666A-2R         | PCP:BLADE UNIT, B-3202H-9 CWT | 2               | Prop           |                           |
| BLADE            | FC7666AB-2R        | PCP:BLADE UNIT, B3202H-9 CWT  | 2               | Prop           |                           |
| SPINNER          | C-2285-3           | SPINNER ASSEMBLY              | 1               | Prop           |                           |
| GOVERNOR         | E3-5               | GOVERNOR ASSEMBLY, E-3-( )    | 1               | Prop           |                           |
| GOVERNOR         | U3-10              | IDS Item                      | 1               | Prop           |                           |
| SPIN MTG KIT     | A-2476-4           | SPINNER - MTG KIT             | 1               | Prop           |                           |
| COUNTERWEIGHT    | B-3202H-9          | PCP:COUNTERWEIGHT             | 1               | Blade          | Blade Component           |
| DE-ICER          | 4H2303-10          | DE-ICE BOOT                   | 1               | Blade          | Supersedes 7931-4E2303-10 |
| DE-ICE KIT PR    | 7931-67-130        | IDS Item                      | 1               | Prop           |                           |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20        | 6               | Prop           |                           |
| OVERHAUL KIT     | HC-C2YR-2CEUF      | O/H KIT                       | 1               | Prop           | For aftermarket use only  |

# HARTZELL

## APPLICATION GUIDE

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PIPER

IDS No.: 870 Rev.: 2 IC Date: 04/24/2019

**Model:** PA-44-180T (right side)  
**Trade Name:** TURBO SEMINOLE  
**Aircraft T.C./STC:** A19SO  
**Propeller Model:** HC-C2YR-2CLEUF  
**Propeller T.C.:** P-920  
**Blade Model(s):** FJC7666A-2R  
 FJC7666AB-2R  
**Prop Diameter:** 74.0" TO 72.0"

**Modifier:**  
**Engine Model:** LTO-360-E1A6D  
**Power:** 180 HP @ 2575 RPM  
**Placard/Restr:**  
**Notes:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.1 +-0.2  
**Stud Protrusion**

**Startlock Angle:** 18.6 +-1.5  
**Feather/High Angle:** 80.0 +-1.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>             | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>           |
|------------------|--------------------|--------------------------------|-----------------|----------------|---------------------------|
| PROPELLER        | C2R00141           | HC-C2YR-2CLEUF/FJC7666A-2R/SM4 | 1               | A/C            | Non-de-iced propeller     |
| PROPELLER        | C2R00151           | HC-C2YR-2CLEUF/FJC7666AB-2R/S4 | 1               | A/C            | De-iced propeller         |
| BLADE            | FJC7666A-2R        | PCP:BLADE UNIT, ALUMINUM       | 2               | Prop           |                           |
| BLADE            | FJC7666AB-2R       | PCP:BLADE UNIT, ALUMINUM       | 2               | Prop           |                           |
| SPINNER          | C-2285-3L          | SPINNER ASSEMBLY               | 1               | Prop           |                           |
| GOVERNOR         | E3-5L              | GOVERNOR ASSEMBLY, E-3-( )     | 1               | Prop           |                           |
| GOVERNOR         | E8-5L              | GOVERNOR ASSEMBLY, E-8 (L)-( ) | 1               | Prop           |                           |
| GOVERNOR         | U3-10L             | IDS Item                       | 1               | Prop           |                           |
| GOVERNOR         | U8-10L             | IDS Item                       | 1               | Prop           |                           |
| SPIN MTG KIT     | A-2476-4           | SPINNER - MTG KIT              | 1               | Prop           |                           |
| COUNTERWEIGHT    | B-3202H-9L         | PCP:COUNTERWEIGHT              | 1               | Blade          | Blade Component           |
| DE-ICER          | 4H2292-10          | DE-ICE BOOT                    | 1               | Blade          | Supercedes 7931-4E2292-10 |
| DE-ICE KIT PR    | 7931-67-130        | IDS Item                       | 1               | Prop           |                           |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20         | 6               | Prop           |                           |
| OVERHAUL KIT     | HC-C2YR-2CLEUF     | O/H KIT                        | 1               | Prop           | For aftermarket use only  |



# HARTZELL

## APPLICATION GUIDE

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PIPER

IDS No.: 871      Rev.: 2      IC      Date: 03/12/2020

**Model:** PA-44-180T (left side)  
**Trade Name:** TURBO SEMINOLE  
**Aircraft T.C./STC:** A19SO  
**Propeller Model:** HC-C3YR-2EUF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** FC7663-5R  
 FC7663B-5R  
**Prop Diameter:** 73" TO 72"

**Modifier:**  
**Engine Model:** TO-360-E1A6D  
**Power:** 180 HP @ 2575 RPM  
**Placard/Restr:**

**Notes:** C-4558-3 replaces C-4558 for new production

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 11.2 +-0.1  
**Stud Protrusion**

**Startlock Angle:** 16.7 +-1.5  
**Feather/High Angle:** 82.0 +-1.0  
**Cwt Angle:**

### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>           | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>   |
|------------------|--------------------|------------------------------|-----------------|----------------|---|
| PROPELLER        | C3R00195           | HC-C3YR-2EUF/FC7663B-5R/SM35 | 1               | A/C            |   |
| PROPELLER        | C3R00197           | HC-C3YR-2EUF/FC7663-5R/SM35  | 0               |                |   |
| BLADE            | FC7663-5R          | PCP:BLADE UNIT, ALUMINUM     | 3               | Prop           |   |
| BLADE            | FC7663B-5R         | PCP:BLADE UNIT, ALUMINUM     | 3               | Prop           |   |
| SPINNER          | C-4558-3           | SPINNER ASSEMBLY             | 1               | Prop           |   |
| SPINNER          | C-4558-3P          | SPINNER ASSEMBLY             | 1               | Prop           |   |
| GOVERNOR         | E3-5               | GOVERNOR ASSEMBLY, E-3-( )   | 1               | Prop           |   |
| GOVERNOR         | U3-10              | IDS Item                     | 1               | Prop           |   |
| SPIN MTG KIT     | A-2476-35          | SPINNER - MTG KIT            | 1               | Prop           |   |
| COUNTERWEIGHT    | B-3202H-5          | PCP:COUNTERWEIGHT            | 1               | Blade          | Blade Component   |
| DE-ICER          | 4H2303-10          | DE-ICE BOOT                  | 1               | Blade          |   |
| DE-ICE KIT PR    | 7931-67-145-1B     | DE-ICE KIT (ONE PROP)        | 1               | Prop           | Wire harness installed on prop; remaining kit parts bagged. |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20       | 6               | Prop           |   |

PIPER

IDS No.: 872 Rev.: 3 IC Date: 07/24/2017

**Model:** PA-44-180T (right side)  
**Trade Name:** TURBO SEMINOLE  
**Aircraft T.C./STC:** A19SO  
**Propeller Model:** HC-C3YR-2LEUF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** FJC7663-5R  
 FJC7663B-5R  
**Prop Diameter:** 73" TO 72"

**Modifier:**  
**Engine Model:** LTO-360-E1A6D  
**Power:** 180 HP @ 2575 RPM  
**Placard/Restr:**  
**Notes:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 11.2 +-0.1  
**Stud Protrusion**

**Startlock Angle:** 16.7 +-1.5  
**Feather/High Angle:** 82.0 +-1.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type     | Item Number    | Description                    | Quantity | Qty Per | Comments  |
|---------------|----------------|--------------------------------|----------|---------|---|
| PROPELLER     | C3R00183       | HC-C3YR-2LEUF/FJC7663-5R       | 1        | A/C     |   |
| PROPELLER     | C3R00184       | HC-C3YR-2LEUF/FJC7663B-5R/SM35 | 1        | A/C     |   |
| BLADE         | FJC7663-5R     | PCP:BLADE UNIT, ALUMINUM       | 3        | Prop    |   |
| BLADE         | FJC7663B-5R    | PCP:BLADE UNIT, ALUMINUM       | 3        | Prop    |   |
| SPINNER       | C-4558-3       | SPINNER ASSEMBLY               | 1        | Prop    |   |
| SPINNER       | C-4558-3P      | SPINNER ASSEMBLY               | 1        | Prop    |   |
| GOVERNOR      | E3-5L          | GOVERNOR ASSEMBLY, E-3-( )     | 1        | Prop    |   |
| GOVERNOR      | E8-5L          | GOVERNOR ASSEMBLY, E-8 (L)-( ) | 1        | Prop    |   |
| GOVERNOR      | U3-10L         | IDS Item                       | 1        | Prop    |   |
| GOVERNOR      | U8-10L         | IDS Item                       | 1        | Prop    |   |
| SPIN MTG KIT  | A-2476-35      | SPINNER - MTG KIT              | 1        | Prop    |   |
| COUNTERWEIGHT | B-3202H-5      | PCP:COUNTERWEIGHT              | 1        | Blade   | Blade Component   |
| DE-ICER       | 4H2292-10      | DE-ICE BOOT                    | 1        | Blade   | SUPERCEDES 7931-4E2292-10                                     |
| DE-ICER       | 7931-4E2292-10 | PROP DE-ICER,THERMAL EFFICIENT | 1        | Blade   | Superseded by 4H2292-10                                       |
| DE-ICE KIT PR | 7931-67-145-1B | DE-ICE KIT (ONE PROP)          | 1        | Prop    | Wire harness installed on prop;<br>remaining kit parts bagged |
| MTG BOLT/STUD | A-2067         | STUD, MOUNTING, 1/2-20         | 6        | Prop    |   |

# HARTZELL

## APPLICATION GUIDE

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PIPER

IDS No.: 3115      Rev.: 3      IC      Date: 07/07/2015

**Model:** PA-44-180 (left side)  
**Trade Name:** Seminole  
**Aircraft T.C./STC:** SA03022CH  
**Propeller Model:** HC-C2YR-2CEUFP  
**Propeller T.C.:** P-920  
**Blade Model(s):** FC7497\*1  
**Prop Diameter:** 74-72.5"

**Modifier:** Hartzell Propeller  
**Engine Model:** O-360-A1H6, -E1A6D  
**Power:** 180 HP @ 2700 RPM  
**Placard/Restr:**

**Notes:** Apply green dot to cylinder for B-1106 Spring Kit

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** 12.8 +/- 0.2  
**Stud Protrusion**

**Startlock Angle:** 18.5 +/- 1.5  
**Feather/High Angle:** 80.0 +/- 1.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>             | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|--------------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | C2R00120           | HC-C2YR-2CEUFP/FC7497[*1]/SM4  | 1               | A/C            |                          |
| BLADE            | FC7497*1           | PCP:BLADE UNIT, ALUM B-3202H-9 | 2               | Prop           |                          |
| SPINNER          | C-2285-3           | SPINNER ASSEMBLY               | 1               | Prop           |                          |
| SPINNER          | C-2285-3P          | SPINNER ASSEMBLY               | 1               | Prop           |                          |
| SPINNER          | D-6974-1           | SPINNER ASSEMBLY               | 1               | Prop           |                          |
| SPINNER          | D-6974-1P          | SPINNER ASSEMBLY               | 1               | Prop           |                          |
| GOVERNOR         | E3-2               | GOVERNOR ASSEMBLY, E-3-( )     | 1               | A/C            | For the -E1A6D Engine    |
| GOVERNOR         | U3-15              | GOVERNOR ASSEMBLY, U-3-( )     | 1               | A/C            | For the -A1H6 Engine     |
| SPIN MTG KIT     | A-2476-4           | SPINNER - MTG KIT              | 1               | Prop           |                          |
| COUNTERWEIGHT    | B-3202H-9          | PCP:COUNTERWEIGHT              | 1               | Blade          |                          |
| OVERHAUL KIT     | HC-C2YR-2CEUF      | O/H KIT                        | 1               | Prop           | For aftermarket use only |

# HARTZELL

## APPLICATION GUIDE

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**PIPER**

**Model:** PA-44-180 (right side)  
**Trade Name:** Seminole  
**Aircraft T.C./STC:** SA03022CH  
**Propeller Model:** HC-C2YR-2CLEUFP  
**Propeller T.C.:** P-920  
**Blade Model(s):** FJC7497  
 FJC7497\*1  
**Prop Diameter:** 74-72.5"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** 12.8 +/- 0.2  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

**IDS No.:** 3116      **Rev.:** 4      **IC Date:** 08/06/2020

**Modifier:** Hartzell Propeller  
**Engine Model:** LO-360-A1H6, -E1A6D  
**Power:** 180 HP @ 2700 RPM  
**Placard/Restr:**

**Notes:** Apply green dot to cylinder for B-1106 Spring Kit

**Startlock Angle:** 18.5 +/- 1.5  
**Feather/High Angle:** 80.0 +/- 1.0  
**Cwt Angle:**

**Non-HPI Governor:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>              | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>                                       |
|------------------|--------------------|---------------------------------|-----------------|----------------|---|
| PROPELLER        | C2R00155           | HC-C2YR-2CLEUFP/FJC7497[*1]/SM4 | 1               | A/C            |   |
| BLADE            | FJC7497            | PCP:BLADE UNIT, ALUM B-3202H-1  | 2               | Prop           |   |
| BLADE            | FJC7497*1          | PCP:BLADE UNIT,ALUM,B-3202H-9L  | 2               | Prop           |   |
| SPINNER          | C-2285-3L          | SPINNER ASSEMBLY                | 1               | Prop           |   |
| SPINNER          | C-2285-3LP         | SPINNER ASSEMBLY                | 1               | Prop           |   |
| SPINNER          | D-6974-1           | SPINNER ASSEMBLY                | 1               | Prop           |   |
| SPINNER          | D-6974-1P          | SPINNER ASSEMBLY                | 1               | Prop           |   |
| GOVERNOR         | E3-2L              | GOVERNOR ASSEMBLY, E-3(-)       | 1               | A/C            | For the -E1A6D Engine                                 |
| GOVERNOR         | E8-2L              | GOVERNOR ASSEMBLY, E-8 (L)-()   | 1               | A/C            | For the -E1A6D engine with Piper synchropasing system |
| GOVERNOR         | U3-15L             | GOVERNOR ASSEMBLY, U-3(-)       | 1               | A/C            | For the A1H6 Engine                                   |
| SPIN MTG KIT     | A-2476-4           | SPINNER - MTG KIT               | 1               | Prop           |   |
| COUNTERWEIGHT    | B-3202H-9L         | PCP:COUNTERWEIGHT               | 1               | Blade          |   |
| OVERHAUL KIT     | HC-C2YR-2CLEUF     | O/H KIT                         | 1               | Prop           | For aftermarket use only                              |

# HARTZELL

## APPLICATION GUIDE

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PIPER

IDS No.: 1397 Rev.: 3 IC Date: 08/14/2015

**Model:** PA-46  
**Trade Name:** JET PROP DLX (MALIBU)  
**Aircraft T.C./STC:** ST00541SE  
**Propeller Model:** HC-E4N-3I  
**Propeller T.C.:** P10NE

**Modifier:** JETPROP LLC  
**Engine Model:** PT6A-34  
**Power:** 560 HP @ 2200 RPM  
**Placard/Restr:** Stabilized ground operations is prohibited between 500 and 1200 RPM. The propeller may be operated when feathered at or below 500 RPM.

**Blade Model(s):** E8501-3.5  
 E8501B-3.5  
 E8501B-3.5\*1  
**Prop Diameter:** 82.5" TO 81.5"

**Notes:** At the low pitch setting, check blade to blade angles at the 36 inch radial location. All blades must be within 0.3 degree of one another.

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** -10.0 +- 0.5  
**Low Pitch Angle:** 19.0 +- 0.1  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 84.5 +-0.5  
**Cwt Angle:**

### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:** WOODWARD

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>             | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>            |
|------------------|--------------------|--------------------------------|-----------------|----------------|----------------------------|
| PROPELLER        | E4N00087S          | HC-E4N-3I/E8501B-3.5[*1]630-1P | 1               | A/C            |                            |
| PROPELLER        | E4N00087SKD        | HC-E4N-3I/E8501B-3.5[*1]630-1P | 1               | A/C            |                            |
| BLADE            | E8501-3.5          | PCP:BLADE UNIT, ALUMINUM       | 4               | Prop           |                            |
| BLADE            | E8501B-3.5         | PCP:BLADE UNIT, 4H1601-10 BOOT | 4               | Prop           | Superseded by E8501B-3.5*1 |
| BLADE            | E8501B-3.5*1       | PCP:BLADE UNIT, 102878 BOOT    | 4               | Prop           | Supersedes E8501B-3.5      |
| SPINNER          | D-630-1            | SPINNER ASSEMBLY               | 1               | Prop           |                            |
| SPINNER          | D-630-1P           | SPINNER ASSEMBLY               | 1               | Prop           |                            |
| SPIN MTG KIT     | A-2070-7           | SCREW, 1/4-28, BUTTON HEAD     | 8               | Prop           |                            |
| COUNTERWEIGHT    | C-472-1            | PCP:COUNTERWEIGHT              | 1               | Blade          |                            |
| DE-ICER          | 102878             | DE-ICE BOOT                    | 1               | Blade          | Supersedes 4H1601-10       |
| DE-ICER          | 4H1601-10          | DE-ICE BOOT                    | 1               | Blade          | Superseded by 102878       |
| DE-ICE KIT PR    | 7931-67-932-1      | DE-ICE KIT (ONE PROP)          | 1               | Prop           |                            |
| MTG BOLT/STUD    | B-3339-1           | BOLT,MOUNTING,9/16-18,12 POINT | 8               | Prop           |                            |
| MISC ACCES       | A-3044             | BLOCK, BETA FEEDBACK- ASSEMBLY | 1               | Prop           |                            |
| OVERHAUL KIT     | HC-E4N-3I-OH       | O/H KIT                        | 1               | Prop           | For aftermarket use only   |

# HARTZELL

## APPLICATION GUIDE

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PIPER

IDS No.: 1555 Rev.: - DM Date: 08/13/2008

**Model:** PA-46  
**Trade Name:** JETPROP DLX (MALIBU)  
**Aircraft T.C./STC:** ST00541SE  
**Propeller Model:** HC-E4N-3M  
**Propeller T.C.:** P10NE  
**Blade Model(s):** E8190K  
**Prop Diameter:** 81.75"

**Modifier:** JETPROP LLC  
**Engine Model:** PT6A-34  
**Power:** 560 HP @ 2200 RPM  
**Placard/Restr:**  
**Notes:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** -10.0 +-0.5  
**Low Pitch Angle:** 19.7 +-0.1  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 82.9 +-0.5  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:** WOODWARD

**Hartzell Approved Items:**

| <u>Item Type</u>              | <u>Item Number</u> | <u>Description</u>             | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|-------------------------------|--------------------|--------------------------------|-----------------|----------------|--------------------------|
| PROPELLER                     | E4N00101S          | HC-E4N-3M/E8190K/E-6963P       | 1               | A/C            |                          |
| BLADE                         | E8190K             | PCP:BLADE ASSY, COMPOSITE      | 4               | Prop           |                          |
| SPINNER                       | E-6963-P           | SPINNER ASSEMBLY               | 1               | Prop           |                          |
| SPIN MTG KIT                  | A-2070-7           | SCREW, 1/4-28, BUTTON HEAD     | 8               | Prop           |                          |
| COUNTERWEIGHT                 | E-7269             | PCP:CLAMP, COUNTERWEIGHT       | 1               | Blade          |                          |
| COUNTERWEIGHT SLUG A-1745     |                    | WASHER, 3/8 "                  | 8               | Blade          |                          |
| COUNTERWEIGHT SLUG B-3386-26H |                    | BOLT,3/8-24,HEX HEAD           | 1               | Blade          |                          |
| COUNTERWEIGHT SLUG B-3599     |                    | NUT,3/8-24,HEX,SELF-LOCKING    | 1               | Blade          |                          |
| DE-ICER                       | 4H3462-1           | DE-ICE BOOT                    | 1               | Blade          | Supersedes 7931-4E3462-1 |
| DE-ICE KIT PR                 | 7931-5E2690-1      | DE-ICE KIT (ONE PROP)          | 1               | A/C            |                          |
| MTG BOLT/STUD                 | B-3339-1           | BOLT,MOUNTING,9/16-18,12 POINT | 8               | Prop           |                          |

# HARTZELL

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PIPER

IDS No.: 3356 Rev.: 1 IC Date: 08/14/2015

**Model:** PA-46  
**Trade Name:** JET PROP DLX (MALIBU)  
**Aircraft T.C./STC:** STC ST00541SE  
**Propeller Model:** HC-E4N-3N  
**Propeller T.C.:** P10NE

**Modifier:** JET PROP LLC  
**Engine Model:** PT6A-34  
**Power:** 560 HP @ 2200 RPM  
**Placard/Restr:** Stabilized ground operation between 450 and 1250 RPM is prohibited. The propeller may be operated at or below 450 RPM when feathered.

**Blade Model(s):** D8292B-2  
**Prop Diameter:** 80.5" TO 80.0"

**Notes:** Optional engines and ratings: PT6A-35, 560 HP at 2190 RPM; PT6A-21, 550 HP at 2200 RPM.

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** -10.0+-0.5  
**Low Pitch Angle:** 19.7+-0.1  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 83.2+-0.5  
**Cwt Angle:**

### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| Item Type     | Item Number   | Description                    | Quantity | Qty Per | Comments                  |
|---------------|---------------|--------------------------------|----------|---------|---------------------------|
| PROPELLER     | E4N00555S     | HC-E4N-3N/D8292B-2/D-630-1P    | 1        | A/C     |                           |
| BLADE         | D8292B-2      | PCP:BLADE UNIT, ALUM [1,1,1]   | 4        | Prop    |                           |
| SPINNER       | D-630-1       | SPINNER ASSEMBLY               | 1        | Prop    |                           |
| SPINNER       | D-630-1P      | SPINNER ASSEMBLY               | 1        | Prop    |                           |
| SPIN MTG KIT  | A-2070-7      | SCREW, 1/4-28, BUTTON HEAD     | 8        | Prop    |                           |
| COUNTERWEIGHT | C-472-3       | PCP:COUNTERWEIGHT              | 1        | Blade   |                           |
| DE-ICER       | 4H1601-10     | DE-ICE BOOT                    | 1        | Blade   | Supersedes 7931-4E1601-10 |
| DE-ICE KIT PR | 7931-67-932-1 | DE-ICE KIT (ONE PROP)          | 1        | Prop    |                           |
| MTG BOLT/STUD | B-3339-1      | BOLT,MOUNTING,9/16-18,12 POINT | 8        | Prop    |                           |
| MISC ACCES    | A-3044        | BLOCK, BETA FEEDBACK- ASSEMBLY | 1        | Prop    |                           |
| OVERHAUL KIT  | HC-E4N-3N-OH  | O/H KIT                        | 1        | Prop    | For aftermarket use only  |

# HARTZELL

## APPLICATION GUIDE

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PIPER

IDS No.: 1888 Rev.: 1 IC Date: 08/14/2015

**Model:** PA-46  
**Trade Name:** JET PROP DLX (MALIBU)  
**Aircraft T.C./STC:** STC ST00541SE  
**Propeller Model:** HC-E4N-3N  
**Propeller T.C.:** P10NE

**Modifier:** JET PROP LLC  
**Engine Model:** PT6A-34  
**Power:** 560 HP @ 2200 RPM  
**Placard/Restr:** Stabilized ground operation between 400 and 1200 RPM is prohibited. The propeller may be operated at or below 400 RPM when feathered.

**Blade Model(s):** D8292B  
 D8292B\*1  
**Prop Diameter:** 82.5" TO 81.5"

**Notes:** Optional engines and ratings: PT6A-35, 560 HP at 2190 RPM; PT6A-21, 550 HP at 2200 RPM.

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** -10.0+/-0.5  
**Low Pitch Angle:** 19.7+/-0.1  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 83.2+/-0.5  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type     | Item Number   | Description                    | Quantity | Qty Per | Comments                  |
|---------------|---------------|--------------------------------|----------|---------|---------------------------|
| PROPELLER     | E4N00520S     | HC-E4N-3N/D8292B/D-630-1P      | 1        | A/C     |                           |
| PROPELLER     | E4N00520SKD   | HC-E4N-3N/D8292B/D-630-1P      | 1        | A/C     |                           |
| PROPELLER     | E4N00540S     | HC-E4N-3N/D8292B[*1]/D-630-1P  | 1        | A/C     |                           |
| BLADE         | D8292B        | PCP:BLADE UNIT, ALUM [1,1,1]   | 4        | Prop    |                           |
| BLADE         | D8292B*1      | PCP:BLADE UNIT, ALUM [3,1,1]   | 4        | Prop    |                           |
| SPINNER       | D-630-1       | SPINNER ASSEMBLY               | 1        | Prop    |                           |
| SPINNER       | D-630-1P      | SPINNER ASSEMBLY               | 1        | Prop    |                           |
| SPIN MTG KIT  | A-2070-7      | SCREW, 1/4-28, BUTTON HEAD     | 8        | Prop    |                           |
| COUNTERWEIGHT | C-472-3       | PCP:COUNTERWEIGHT              | 1        | Blade   |                           |
| DE-ICER       | 4H1601-10     | DE-ICE BOOT                    | 1        | Blade   | Supersedes 7931-4E1601-10 |
| DE-ICE KIT PR | 7931-67-932-1 | DE-ICE KIT (ONE PROP)          | 1        | Prop    |                           |
| MTG BOLT/STUD | B-3339-1      | BOLT,MOUNTING,9/16-18,12 POINT | 8        | Prop    |                           |
| MISC ACCES    | A-3044        | BLOCK, BETA FEEDBACK- ASSEMBLY | 1        | Prop    |                           |
| OVERHAUL KIT  | HC-E4N-3N-OH  | O/H KIT                        | 1        | Prop    | For aftermarket use only  |



# HARTZELL

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PIPER

IDS No.: 873      Rev.: 1      IC      Date: 07/07/2015

**Model:** PA-46-310P  
**Trade Name:** MALIBU  
**Aircraft T.C./STC:** A25SO  
**Propeller Model:** BHC-C2YF-1BF  
**Propeller T.C.:** P-920  
**Blade Model(s):** F8052  
F8052K  
**Prop Diameter:** 80.0" TO 78.0"

**Modifier:**  
**Engine Model:** TSIO-520-BE  
**Power:** 310 HP @ 2600 RPM  
**Placard/Restr:**  
**Notes:**

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 16.0 +-0.2  
**Stud Protrusion** 1.450 +-0.030

**Startlock Angle:** NA  
**Feather/High Angle:** 38.0 +-1.0  
**Cwt Angle:**

### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>         | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|----------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | C2F00035           | BHC-C2YF-1BF/F8052/SM8     | 1               | A/C            |                          |
| PROPELLER        | C2F00040           | BHC-C2YF-1BF/F8052K        | 1               | A/C            |                          |
| BLADE            | F8052              | PCP:BLADE UNIT, ALUMINUM   | 2               | Prop           |                          |
| BLADE            | F8052K             | PCP:BLADE UNIT, ALUMINUM   | 2               | Prop           |                          |
| SPINNER          | D-4810             | SPINNER ASSEMBLY           | 1               | Prop           |                          |
| SPINNER          | D-4810-P           | SPINNER ASSEMBLY           | 1               | Prop           |                          |
| GOVERNOR         | E5-2               | GOVERNOR ASSEMBLY, E-5-( ) | 1               | A/C            |                          |
| SPIN MTG KIT     | A-2476-8           | SPINNER - MTG KIT          | 1               | Prop           |                          |
| DE-ICER          | 4H2200-3           | DE-ICE BOOT                | 1               | Blade          | Supercedes 7931-4E2200-3 |
| DE-ICE KIT PR    | 7931-67-425-1      | DE-ICE KIT (ONE PROP)      | 1               | Prop           |                          |
| MTG BOLT/STUD    | A-2429-4           | STUD, MOUNTING, 1/2-20     | 6               | Prop           |                          |
| OVERHAUL KIT     | BHC-C2YF-1BF-OH    | O/H KIT                    | 1               | Prop           | For aftermarket use only |

# HARTZELL

## APPLICATION GUIDE

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PIPER

IDS No.: 1594 Rev.: 2 IC Date: 10/07/2015

Model: PA-46-310P  
 Trade Name: MALIBU  
 Aircraft T.C./STC: STC SA01616CH  
 Propeller Model: PHC-G3YF-1E  
 Propeller T.C.: P55GL  
 Blade Model(s): 7890K  
 Prop Diameter: 80.0"

Modifier: HARTZELL PROPELLER  
 Engine Model: TSIO-520-BE  
 Power: 310 HP @ 2600 RPM  
 Placard/Restr:  
 Notes:

**Prop Setup:**

Ref. Radius: 30  
 Reverse Angle: NA  
 Low Pitch Angle: 11.9 +-0.2  
 Stud Protrusion 1.450 +-0.030

Startlock Angle: NA  
 Feather/High Angle: 42.0 +-1.0  
 Cwt Angle:

**Non-HPI Items:**

Non-HPI Spinner:

Non-HPI Governor:

**Hartzell Approved Items:**

| Item Type      | Item Number     | Description                     | Quantity | Qty Per | Comments                 |
|----------------|-----------------|---------------------------------|----------|---------|--------------------------|
| PROPELLER      | G3F10002        | PHC-G3YF-1E/7890K/SM30          | 1        | A/C     |                          |
| PROPELLER      | G3F10002S       | PHC-G3YF-1E/7890K/SM30/C3535-3P | 1        | A/C     |                          |
| PROPELLER      | G3F10002SKD     | PHC-G3YF-1E/7890K/SM30/C3535-3P | 1        | A/C     |                          |
| PROPELLER      | G3F10002SKDTP   | G3F10002/SM30/C-3535-3P/DE-ICE  | 1        | A/C     |                          |
| PROPELLER      | G3F10002SKDTP*1 | G3F10002/SM30/C-3535-3P/DE-ICE  | 1        | A/C     |                          |
| PROPELLER      | G3F10002STP     | G3F10002/SM30/C-3535-3P/DE-ICE  | 1        | A/C     |                          |
| PROPELLER      | G3F10002STP*1   | G3F10002/SM30/C-3535-3P/DE-ICE  | 1        | A/C     |                          |
| BLADE          | 7890K           | PCP:BLADE ASSY, COMPOSITE       | 3        | Prop    |                          |
| SPINNER        | C-3535-3        | SPINNER ASSEMBLY                | 1        | Prop    |                          |
| SPINNER        | C-3535-3P       | SPINNER ASSEMBLY                | 1        | Prop    |                          |
| GOVERNOR       | E5-2            | GOVERNOR ASSEMBLY, E-5-()       | 1        | Prop    |                          |
| SPIN MTG KIT   | A-2476-30       | SPINNER - MTG KIT               | 1        | Prop    |                          |
| DE-ICER        | 4H3997-1        | DE-ICE BOOT                     | 1        | Blade   | Supercedes 7931-4E3997-1 |
| DE-ICE KIT PR  | 7931-5E2707-1   | DE-ICE KIT (ONE PROP)           | 1        | Prop    |                          |
| DE-ICE KIT A/F | 7931-5E2707-2   | AIRFRAME DE-ICE KIT             | 1        | A/C     |                          |
| DE-ICE KIT A/F | E-7623-1        | DE-ICE ELECTRICAL INSTL - KIT   | 1        | A/C     |                          |
| DE-ICE KIT A/F | E-7623-2        | DE-ICE ELECTRICAL INSTL - KIT   | 1        | A/C     |                          |
| MTG BOLT/STUD  | A-2429-4        | STUD, MOUNTING, 1/2-20          | 6        | Prop    |                          |
| MISC ACCES     | 4H3076-3        | MOV MODULE - ASSEMBLY           | 1        | A/C     |                          |

# HARTZELL

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**PIPER**

**Model:** PA-46-310P  
**Trade Name:** MALIBU  
**Aircraft T.C./STC:** STC SA01770CH  
**Propeller Model:** PHC-G3YF-1E  
**Propeller T.C.:** P55GL  
**Blade Model(s):** 7890K  
**Prop Diameter:** 80.0"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.8 +/-0.2  
**Stud Protrusion** 1.450 +/-0.030

**Non-HPI Items:**

**Non-HPI Spinner:**

**IDS No.:** 1668      **Rev.:** -      **DM Date:** 05/08/2007

**Modifier:** MALIBU POWER AND PROPELLER  
**Engine Model:** TSIO-550-C1B  
**Power:** 350 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 41.0 MIN  
**Cwt Angle:**

**Non-HPI Governor:** TBD

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>             | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|--------------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | G3F10001           | PHC-G3YF-1E/7890K/SM7          | 1               | A/C            |                          |
| PROPELLER        | G3F10001S          | PHC-G3YF-1E/7890K/SM7/C3535-3P | 1               | A/C            |                          |
| BLADE            | 7890K              | PCP:BLADE ASSY, COMPOSITE      | 3               | Prop           |                          |
| SPINNER          | C-3535-3           | SPINNER ASSEMBLY               | 1               | Prop           |                          |
| SPINNER          | C-3535-3P          | SPINNER ASSEMBLY               | 1               | Prop           |                          |
| SPIN MTG KIT     | A-2476-7           | SPINNER - MTG KIT              | 1               | Prop           |                          |
| DE-ICER          | 4H3997-1           | DE-ICE BOOT                    | 1               | Blade          | Supercedes 7931-4E3997-1 |
| DE-ICE KIT PR    | 7931-5E2705-1      | DE-ICE KIT (ONE PROP)          | 1               | Prop           |                          |
| MTG BOLT/STUD    | A-2429-4           | STUD, MOUNTING, 1/2-20         | 6               | Prop           |                          |
| MISC ACCES       | 4H3076-3           | MOV MODULE - ASSEMBLY          | 1               | A/C            |                          |

# HARTZELL

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PIPER

IDS No.: 874 Rev.: 2 IC Date: 07/07/2015

**Model:** PA-46-350P  
**Trade Name:** MALIBU MIRAGE  
**Aircraft T.C./STC:** A25SO  
**Propeller Model:** HC-I2YR-1BF  
**Propeller T.C.:** P-42GL

**Modifier:**  
**Engine Model:** TIO-540-AE2A  
**Power:** 350 HP @ 2500 RPM  
**Placard/Restr:** The following manifold pressure restrictions will apply: Do not exceed 36" MP below 2400 RPM and 32" MP below 2300 RPM.

**Blade Model(s):** F8074  
 F8074K  
**Prop Diameter:** 80.0" TO 79.0"

**Notes:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 17.6 +-0.2  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 40.5 +-0.5  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>         | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>                |
|------------------|--------------------|----------------------------|-----------------|----------------|--------------------------------|
| PROPELLER        | I2R00020           | HC-I2YR-1BF/F8074K/SM19    | 1               | A/C            |                                |
| PROPELLER        | I2R00030           | HC-I2YR-1BF/F8074/SM19     | 1               | A/C            |                                |
| BLADE            | F8074              | PCP:BLADE UNIT, ALUMINUM   | 2               | Prop           |                                |
| BLADE            | F8074K             | PCP:BLADE UNIT, ALUMINUM   | 2               | Prop           |                                |
| SPINNER          | A-2298-3           | SPINNER ASSEMBLY           | 1               | Prop           |                                |
| SPINNER          | A-2298-3P          | SPINNER ASSEMBLY           | 1               | Prop           |                                |
| GOVERNOR         | V11-1              | GOVERNOR ASSEMBLY, V-11-() | 1               | A/C            |                                |
| GOVERNOR         | V5-2               | GOVERNOR ASSEMBLY, V-5-()  | 1               | A/C            |                                |
| SPIN MTG KIT     | A-2476-19          | SPINNER - MTG KIT          | 1               | Prop           |                                |
| DE-ICER          | 2H1291             | STRAP, RESTRAINER, DE-ICE  | 1               | Blade          | Blade component(on booted bld) |
| DE-ICER          | 4H2200-3           | DE-ICE BOOT                | 1               | Blade          | Supersedes 7931-4E2200-3       |
| DE-ICE KIT PR    | 7931-67-585-1      | DE-ICE KIT (ONE PROP)      | 1               | Prop           |                                |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20     | 6               | Prop           |                                |
| OVERHAUL KIT     | HC-I2YR-1BF-OH     | O/H KIT                    | 1               | Prop           | For aftermarket use only       |

# HARTZELL

## APPLICATION GUIDE

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PIPER

IDS No.: 1398 Rev.: 1 IC Date: 07/16/2015

**Model:** PA-46-350P  
**Trade Name:** MALIBU MIRAGE  
**Aircraft T.C./STC:** A25SO  
**Propeller Model:** HC-I3YR-1E  
**Propeller T.C.:** P33EA  
**Blade Model(s):** 7890K  
**Prop Diameter:** 80.0

**Modifier:**  
**Engine Model:** TIO-540-AE2A  
**Power:** 350 HP @ 2500 RPM  
**Placard/Restr:**  
**Notes:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.65 +- 0.15  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 38.7 +0.5  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>             | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|--------------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | I3R00007           | HC-I3YR-1E/7890K/D-6753-1P/SM7 | 1               | A/C            |                          |
| PROPELLER        | I3R00007S          | HC-I3YR-1E/7890K/D-6750-P/SM7  | 1               | A/C            |                          |
| BLADE            | 7890K              | PCP:BLADE ASSY, COMPOSITE      | 3               | Prop           |                          |
| SPINNER          | D-6750             | SPINNER ASSEMBLY               | 1               | Prop           |                          |
| SPINNER          | D-6750-P           | SPINNER ASSEMBLY               | 1               | Prop           |                          |
| GOVERNOR         | V11-1              | GOVERNOR ASSEMBLY, V-11-()     | 1               | A/C            |                          |
| SPIN MTG KIT     | A-2476-7           | SPINNER - MTG KIT              | 1               | Prop           |                          |
| DE-ICER          | 4H3997-1           | DE-ICE BOOT                    | 1               | Blade          | Supersedes 7931-4E3997-1 |
| DE-ICER          | 4H3997-1           | DE-ICE BOOT                    | 1               | Blade          | Supercedes 7931-4E3997-1 |
| DE-ICE KIT PR    | 7931-5E2627-1      | DE-ICE KIT                     | 1               | Prop           |                          |
| DE-ICE KIT PR    | B-3599             | NUT,3/8-24,HEX,SELF-LOCKING    | 3               | Prop           |                          |
| DE-ICE KIT PR    | B-3834-0616        | WASHER                         | 6               | Prop           |                          |
| DE-ICE KIT PR    | B-3834-0663        | WASHER                         | 6               | Prop           |                          |
| DE-ICE KIT PR    | B-6265             | BRACKET, WIRE HARNESS          | 3               | Prop           |                          |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20         | 6               | Prop           |                          |
| OVERHAUL KIT     | HC-I3YR-1E-OH      | O/H KIT                        | 1               | Prop           | For aftermarket use only |

# HARTZELL

## APPLICATION GUIDE

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PIPER

IDS No.: 2784 Rev.: 4 IC Date: 10/21/2020

**Model:** PA-46-350P, PA-46R-350T  
**Trade Name:** MALIBU MIRAGE, MATRIX  
**Aircraft T.C./STC:** SA02677CH-D  
**Propeller Model:** HC-I3Y1R-1N  
**Propeller T.C.:** P33EA  
**Blade Model(s):** N7605+2  
 N7605K+2  
**Prop Diameter:** 80"

**Modifier:** Hartzell Propeller  
**Engine Model:** TIO-540-AE2A  
**Power:** 350 HP @ 2500 RPM  
**Placard/Restr:**

**Notes:** PA-46-350P aircraft serial number 4622001 to 4622200 and 4636001 to 4636131 converting from 2-blade require modifications per drawings E-7359 and 102960.

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** 14.0 +/- 0.2  
**Stud Protrusion**

**Startlock Angle:**  
**Feather/High Angle:** 38.0 +/-1.0  
**Cwt Angle:**

### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| Item Type      | Item Number    | Description                    | Quantity | Qty Per | Comments                 |
|----------------|----------------|--------------------------------|----------|---------|--------------------------|
| PROPELLER      | I3R30300       | HC-I3Y1R-1N/N7605+2/SM44/BULK  | 1        | A/C     |                          |
| PROPELLER      | I3R30300KD     | HC-I3Y1R-1N/N7605+2/SM44/BULK  | 1        | A/C     |                          |
| PROPELLER      | I3R30350       | HC-I3Y1R-1N/N7605K+2/SM44/BULK | 1        | A/C     |                          |
| PROPELLER      | I3R30350KD     | HC-I3Y1R-1N/N7605K+2/SM44/BULK | 1        | A/C     |                          |
| BLADE          | N7605+2        | PCP:BLADE ASSY, COMPOSITE      | 3        | Prop    |                          |
| BLADE          | N7605K+2       | PCP:BLADE ASSY, COMP. [3,1,1]  | 3        | Prop    |                          |
| SPINNER        | D-6750-1       | SPINNER ASSEMBLY               | 1        | Prop    |                          |
| SPINNER        | D-6750-1P      | SPINNER ASSEMBLY               | 1        | Prop    |                          |
| SPINNER        | D-6751-1PKIT   | POLISHED DOME/ MTG HRDW        | 1        | Prop    |                          |
| GOVERNOR       | S-1-30         | GOVERNOR ASSEMBLY, S-1-30      | 1        | A/C     |                          |
| GOVERNOR       | V11-1          | GOVERNOR ASSEMBLY, V-11-( )    | 1        | A/C     |                          |
| GOVERNOR       | V5-2           | GOVERNOR ASSEMBLY, V-5-( )     | 1        | A/C     |                          |
| SPIN MTG KIT   | A-2476-44      | SPINNER - MTG KIT              | 1        | Prop    |                          |
| DE-ICER        | 102972         | DE-ICE BOOT                    | 1        | Blade   |                          |
| DE-ICE KIT PR  | 102960-1       | DE-ICE KIT (ONE PROP)          | 1        | Prop    |                          |
| DE-ICE KIT A/F | 102960-2       | AIRFRAME DE-ICE KIT            | 1        | A/C     |                          |
| DE-ICE KIT A/F | E-7359-1       | DE-ICE ELECTRICAL INSTLN KIT   | 1        | A/C     |                          |
| MTG BOLT/STUD  | A-2067         | STUD, MOUNTING, 1/2-20         | 6        | Prop    |                          |
| OVERHAUL KIT   | HC-I3Y1R-1N-OH | O/H KIT                        | 1        | Prop    | For aftermarket use only |

# HARTZELL

## APPLICATION GUIDE

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PIPER

IDS No.: 3131 Rev.: 5 IC Date: 09/27/2022

**Model:** PA-46-350P, PA-46R-350T  
**Trade Name:** MALIBU MIRAGE, MATRIX  
**Aircraft T.C./STC:** SA02677CH-D  
**Propeller Model:** HC-I3Y1R-1N  
**Propeller T.C.:** P33EA  
**Blade Model(s):** N7605C+2  
 N7605CK+2  
**Prop Diameter:** 80"

**Modifier:** Hartzell Propeller  
**Engine Model:** TIO-540-AE2A  
**Power:** 350 HP @ 2500 RPM  
**Placard/Restr:** None.  
**Notes:** PA-46-350P aircraft serial number 4622001 to 4622200 and 4636001 to 4636131 converting from 2-blade require modifications per drawings E-7359 and 102960.

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** 14.0 +/- 0.2  
**Stud Protrusion**

**Startlock Angle:**  
**Feather/High Angle:** 38.0 +-1.0  
**Cwt Angle:**

### Non-HPI Items:

Non-HPI Spinner:

Non-HPI Governor:

### Hartzell Approved Items:

| Item Type      | Item Number    | Description                     | Quantity | Qty Per | Comments                 |
|----------------|----------------|---------------------------------|----------|---------|--------------------------|
| PROPELLER      | I3R40300       | HC-I3Y1R-1N/N7605C+2/SM44/BULK  | 1        | A/C     |                          |
| PROPELLER      | I3R40300KD     | HC-I3Y1R-1N/N7605C+2/SM44/BULK  | 1        | A/C     |                          |
| PROPELLER      | I3R40350       | HC-I3Y1R-1N/N7605CK+2/SM44/BULK | 1        | A/C     |                          |
| PROPELLER      | I3R40350KD     | HC-I3Y1R-1N/N7605CK+2/SM44/BULK | 1        | A/C     |                          |
| BLADE          | N7605C+2       | PCP:BLADE ASSY, COMPOSITE       | 3        | Prop    |                          |
| BLADE          | N7605CK+2      | PCP:BLADE ASSY, COMPOSITE       | 3        | Prop    |                          |
| SPINNER        | D-6750-1       | SPINNER ASSEMBLY                | 1        | Prop    |                          |
| SPINNER        | D-6750-1P      | SPINNER ASSEMBLY                | 1        | Prop    |                          |
| SPINNER        | D-6751-1       | DOME UNIT, 3 - BLADE            | 1        | Prop    | Unpolished dome          |
| SPINNER        | D-6751-1KIT    | UNPOLISHED DOME/ MTG HRDW       | 1        | Prop    |                          |
| SPINNER        | D-6751-1P      | DOME UNIT, 3 - BLADE            | 1        | Prop    | Polished dome            |
| SPINNER        | D-6751-1PKIT   | POLISHED DOME/ MTG HRDW         | 1        | Prop    |                          |
| GOVERNOR       | S-1-30         | GOVERNOR ASSEMBLY, S-1-30       | 1        | A/C     |                          |
| GOVERNOR       | V11-1          | GOVERNOR ASSEMBLY, V-11-( )     | 1        | A/C     |                          |
| GOVERNOR       | V5-2           | GOVERNOR ASSEMBLY, V-5-( )      | 1        | A/C     |                          |
| SPIN MTG KIT   | A-2476-44      | SPINNER - MTG KIT               | 1        | Prop    |                          |
| DE-ICER        | 102972         | DE-ICE BOOT                     | 1        | Blade   |                          |
| DE-ICE KIT PR  | 102960-1       | DE-ICE KIT (ONE PROP)           | 1        | Prop    |                          |
| DE-ICE KIT A/F | 102960-2       | AIRFRAME DE-ICE KIT             | 1        | A/C     |                          |
| DE-ICE KIT A/F | E-7359-1       | DE-ICE ELECTRICAL INSTLN KIT    | 1        | A/C     |                          |
| MTG BOLT/STUD  | A-2067         | STUD, MOUNTING, 1/2-20          | 6        | Prop    |                          |
| OVERHAUL KIT   | HC-I3Y1R-1N-OH | O/H KIT                         | 1        | Prop    | For aftermarket use only |

# HARTZELL

## APPLICATION GUIDE

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PIPER

IDS No.: 2785 Rev.: 1 BC Date: 08/20/2014

**Model:** PA-46-350P, PA-46R-350T  
**Trade Name:** MALIBU MIRAGE, MATRIX  
**Aircraft T.C./STC:** SA02677CH-D  
**Propeller Model:** HC-I3YR-1N  
**Propeller T.C.:** P33EA  
**Blade Model(s):** N7605+2  
 N7605K+2  
**Prop Diameter:** 80"

**Modifier:** HARTZELL PROPELLER INC.  
**Engine Model:** TIO-540-AE2A  
**Power:** 350 HP @ 2500 RPM  
**Placard/Restr:**  
**Notes:** PA-46-350P aircraft serial number  
 4622001 to 4622200 and 4636001 to  
 4636131 converting from 2-blade require  
 modifications per drawings E-7359 and  
 102960.

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** 14.0 +/- 0.2  
**Stud Protrusion**

**Startlock Angle:**  
**Feather/High Angle:** 38.0 +/-1.0  
**Cwt Angle:**

### Non-HPI Items:

Non-HPI Spinner:

Non-HPI Governor:

### Hartzell Approved Items:

| Item Type      | Item Number  | Description                   | Quantity | Qty Per | Comments |
|----------------|--------------|-------------------------------|----------|---------|----------|
| PROPELLER      | I3R20100     | HC-I3YR-1N/N7605+2/SM7        | 1        | A/C     |          |
| PROPELLER      | I3R20100KD   | HC-I3YR-1N/N7605+2/SM7        | 1        | A/C     |          |
| PROPELLER      | I3R20120     | HC-I3YR-1N/N7605K+2/SM7/BULK  | 1        | A/C     |          |
| PROPELLER      | I3R20120KD   | HC-I3YR-1N/N7605K+2/SM7/BULK  | 1        | A/C     |          |
| PROPELLER      | I3R20120S    | HC-I3YR-1N/N7605K+2/SM7       | 1        | A/C     |          |
| BLADE          | N7605+2      | PCP:BLADE ASSY, COMPOSITE     | 3        | Prop    |          |
| BLADE          | N7605K+2     | PCP:BLADE ASSY, COMP. [3,1,1] | 3        | Prop    |          |
| SPINNER        | D-6750-1     | SPINNER ASSEMBLY              | 1        | Prop    |          |
| SPINNER        | D-6750-1P    | SPINNER ASSEMBLY              | 1        | Prop    |          |
| SPINNER        | D-6751-1PKIT | POLISHED DOME/ MTG HRDW       | 1        | A/C     |          |
| GOVERNOR       | S-1-30       | GOVERNOR ASSEMBLY, S-1-30     | 1        | A/C     |          |
| GOVERNOR       | V11-1        | GOVERNOR ASSEMBLY, V-11-( )   | 1        | A/C     |          |
| GOVERNOR       | V5-2         | GOVERNOR ASSEMBLY, V-5-( )    | 1        | A/C     |          |
| SPIN MTG KIT   | A-2476-7     | SPINNER - MTG KIT             | 1        | Prop    |          |
| DE-ICER        | 102972       | DE-ICE BOOT                   | 1        | Blade   |          |
| DE-ICE KIT PR  | 102960-1     | DE-ICE KIT (ONE PROP)         | 1        | Prop    |          |
| DE-ICE KIT A/F | 102960-2     | AIRFRAME DE-ICE KIT           | 1        | A/C     |          |
| DE-ICE KIT A/F | E-7359-1     | DE-ICE ELECTRICAL INSTLN KIT  | 1        | A/C     |          |
| MTG BOLT/STUD  | A-2067       | STUD, MOUNTING, 1/2-20        | 6        | Prop    |          |



# HARTZELL

## APPLICATION GUIDE

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PIPER

IDS No.: 3148 Rev.: 2 BC Date: 08/20/2014

**Model:** PA-46-350P, PA-46R-350T  
**Trade Name:** MALIBU MIRAGE, MATRIX  
**Aircraft T.C./STC:** SA02677CH-D  
**Propeller Model:** HC-I3YR-1N  
**Propeller T.C.:** P33EA  
**Blade Model(s):** N7605C+2  
 N7605CK+2  
**Prop Diameter:** 80"

**Modifier:** Hartzell Propeller Inc.  
**Engine Model:** TIO-540-AE2A  
**Power:** 350 HP @ 2500 RPM  
**Placard/Restr:**

**Notes:** PA-46-350P aircraft serial number 4622001 to 4622200 and 4636001 to 4636131 converting from 2-blade require modifications per drawings E-7359 and 102960.

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** 14.0 +/- 0.2  
**Stud Protrusion**

**Startlock Angle:**  
**Feather/High Angle:** 38.0 +/- 1.0  
**Cwt Angle:**

### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>            | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|-------------------------------|-----------------|----------------|-----------------|
| PROPELLER        | I3R50100           | HC-I3YR-1N/N7605C+2/SM7       | 1               | A/C            |                 |
| PROPELLER        | I3R50100KD         | HC-I3YR-1N/N7605C+2/SM7       | 1               | A/C            |                 |
| PROPELLER        | I3R50120           | HC-I3YR-1N/N7605CK+2/SM7/BULK | 1               | A/C            |                 |
| PROPELLER        | I3R50120KD         | HC-I3YR-1N/N7605CK+2/SM7/BULK | 1               | A/C            |                 |
| PROPELLER        | I3R50120S          | HC-I3YR-1N/N7605CK+2/SM7      | 1               | A/C            |                 |
| BLADE            | N7605C+2           | PCP:BLADE ASSY, COMPOSITE     | 3               | Prop           |                 |
| BLADE            | N7605CK+2          | PCP:BLADE ASSY, COMPOSITE     | 3               | Prop           |                 |
| SPINNER          | D-6750-1           | SPINNER ASSEMBLY              | 1               | Prop           |                 |
| SPINNER          | D-6750-1P          | SPINNER ASSEMBLY              | 1               | Prop           |                 |
| SPINNER          | D-6751-1PKIT       | POLISHED DOME/ MTG HRDW       | 1               | Prop           |                 |
| GOVERNOR         | S-1-30             | GOVERNOR ASSEMBLY, S-1-30     | 1               | A/C            |                 |
| GOVERNOR         | V11-1              | GOVERNOR ASSEMBLY, V-11-( )   | 1               | A/C            |                 |
| GOVERNOR         | V5-2               | GOVERNOR ASSEMBLY, V-5-( )    | 1               | A/C            |                 |
| SPIN MTG KIT     | A-2476-7           | SPINNER - MTG KIT             | 1               | Prop           |                 |
| DE-ICER          | 102972             | DE-ICE BOOT                   | 1               | Blade          |                 |
| DE-ICE KIT PR    | 102960-1           | DE-ICE KIT (ONE PROP)         | 1               | Prop           |                 |
| DE-ICE KIT A/F   | 102960-2           | AIRFRAME DE-ICE KIT           | 1               | A/C            |                 |
| DE-ICE KIT A/F   | E-7359-1           | DE-ICE ELECTRICAL INSTLN KIT  | 1               | A/C            |                 |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20        | 6               | Prop           |                 |

# HARTZELL

## APPLICATION GUIDE

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PIPER

IDS No.: 1682 Rev.: 1 IC Date: 07/16/2015

Model: PA-46-350P  
 Trade Name: MALIBU MIRAGE  
 Aircraft T.C./STC: SA01340CH  
 Propeller Model: HC-I3YR-1E  
 Propeller T.C.: P33EA  
 Blade Model(s): 7890K  
 Prop Diameter: 80.0

Modifier: HARTZELL PROPELLER  
 Engine Model: TIO-540-AE2A  
 Power: 350 HP @ 2500 RPM  
 Placard/Restr:  
 Notes:

**Prop Setup:**

Ref. Radius: 30  
 Reverse Angle: NA  
 Low Pitch Angle: 13.65 +- 0.15  
 Stud Protrusion

Startlock Angle: NA  
 Feather/High Angle: 38.7 +-0.5  
 Cwt Angle:

**Non-HPI Items:**

Non-HPI Spinner:

Non-HPI Governor:

**Hartzell Approved Items:**

| Item Type      | Item Number   | Description                   | Quantity | Qty Per | Comments                 |
|----------------|---------------|-------------------------------|----------|---------|--------------------------|
| PROPELLER      | I3R00008S     | HC-I3YR-1E/7890K/D-6750-P/SM7 | 1        | A/C     |                          |
| PROPELLER      | I3R00008SKD   | HC-I3YR-1E/7890K/D-6750-P/SM7 | 1        | A/C     |                          |
| PROPELLER      | I3R00008SKDTP | I3R00008S/SM7/D-6750-P/DE-ICE | 1        | A/C     |                          |
| PROPELLER      | I3R00008STP   | I3R00008S/SM7/D-6750-P/DE-ICE | 1        | A/C     |                          |
| BLADE          | 7890K         | PCP:BLADE ASSY, COMPOSITE     | 3        | Prop    |                          |
| SPINNER        | D-6750        | SPINNER ASSEMBLY              | 1        | Prop    |                          |
| SPINNER        | D-6750-P      | SPINNER ASSEMBLY              | 1        | Prop    |                          |
| GOVERNOR       | V11-1         | GOVERNOR ASSEMBLY, V-11-( )   | 1        | A/C     |                          |
| GOVERNOR       | V5-2          | GOVERNOR ASSEMBLY, V-5-( )    | 1        | A/C     |                          |
| SPIN MTG KIT   | A-2476-7      | SPINNER - MTG KIT             | 1        | Prop    |                          |
| DE-ICER        | 4H3997-1      | DE-ICE BOOT                   | 1        | Blade   | Supercedes 7931-4E3997-1 |
| DE-ICE KIT PR  | 7931-5E2682-1 | DE-ICE KIT (ONE PROP)         | 1        | A/C     |                          |
| DE-ICE KIT PR  | B-3599        | NUT,3/8-24,HEX,SELF-LOCKING   | 3        | Prop    |                          |
| DE-ICE KIT PR  | B-3834-0616   | WASHER                        | 6        | Prop    |                          |
| DE-ICE KIT PR  | B-3834-0663   | WASHER                        | 6        | Prop    |                          |
| DE-ICE KIT PR  | B-6265        | BRACKET, WIRE HARNESS         | 3        | Prop    |                          |
| DE-ICE KIT A/F | 7931-5E2682-2 | AIRFRAME DE-ICE KIT           | 1        | A/C     |                          |
| DE-ICE KIT A/F | E-7359-1      | DE-ICE ELECTRICAL INSTLN KIT  | 1        | A/C     |                          |
| MTG BOLT/STUD  | A-2067        | STUD, MOUNTING, 1/2-20        | 6        | Prop    |                          |
| OVERHAUL KIT   | HC-I3YR-1E-OH | O/H KIT                       | 1        | Prop    | For aftermarket use only |

# HARTZELL

## APPLICATION GUIDE

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PIPER

IDS No.: 2453 Rev.: - DM Date: 09/22/2006

Model: PA-46-350P  
 Trade Name: MALIBU MIRAGE  
 Aircraft T.C./STC: TBD  
 Propeller Model: HC-E3YR-1E  
 Propeller T.C.: P33EA  
 Blade Model(s): 7890K\*1  
 Prop Diameter: 80"

Modifier: Enhanced Flight Group  
 Engine Model: TIO-540-AE2A  
 Power: 350 HP @ 2500 RPM  
 Placard/Restr:  
 Notes: De-Ice Boot Only

**Prop Setup:**

Ref. Radius: 30  
 Reverse Angle:  
 Low Pitch Angle: 13.65 +- 0.15  
 Stud Protrusion

Startlock Angle:  
 Feather/High Angle: 38.7 +-0.5  
 Cwt Angle:

**Non-HPI Items:**

Non-HPI Spinner:

Non-HPI Governor:

**Hartzell Approved Items:**

| Item Type     | Item Number | Description                     | Quantity | Qty Per | Comments                 |
|---------------|-------------|---------------------------------|----------|---------|--------------------------|
| PROPELLER     | E3R00401    | HC-E3YR-1E/7890K[*1]/SM9        | 1        | A/C     |                          |
| PROPELLER     | E3R00401S   | HC-E3YR-1E/7890K[*1]/SM9/C-6446 | 1        | A/C     |                          |
| BLADE         | 7890K*1     | PCP:BLADE UNIT COMP [3,10,14    | 3        | Prop    |                          |
| SPINNER       | C-6446      | SPINNER ASSEMBLY                | 1        | A/C     |                          |
| SPIN MTG KIT  | A-2476-9    | SPINNER - MTG KIT               | 1        | Prop    |                          |
| DE-ICER       | 4H3997-1    | DE-ICE BOOT                     | 1        | Blade   | Supersedes 7931-4E3997-1 |
| MTG BOLT/STUD | A-2067      | STUD, MOUNTING, 1/2-20          | 6        | Prop    |                          |

# HARTZELL

## APPLICATION GUIDE

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PIPER

IDS No.: 1649 Rev.: 4 IC Date: 02/03/2016

**Model:** PA-46-500TP

**Trade Name:** MERIDIAN

**Aircraft T.C./STC:** A25SO

**Propeller Model:** HC-E4N-3Q

**Propeller T.C.:** P10NE

**Blade Model(s):** E8501-3.5  
E8501B-3.5  
E8501B-3.5\*1

**Prop Diameter:** 82.5" TO 81.5"

### Prop Setup:

**Ref. Radius:** 30

**Reverse Angle:** -10.5 +-0.5

**Low Pitch Angle:** 19.0 +- 0.1

**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**Modifier:**

**Engine Model:** PT6A-42A

**Power:** 500 HP @ 2000 RPM

**Placard/Restr:** Ground idle engine speed must be at or above 1175 RPM

**Notes:**

**Startlock Angle:** NA

**Feather/High Angle:** 84.5 +-0.5

**Cwt Angle:**

**Non-HPI Governor:** WOODWARD

### Hartzell Approved Items:

| Item Type     | Item Number   | Description                       | Quantity | Qty Per | Comments   |
|---------------|---------------|-----------------------------------|----------|---------|--|
| PROPELLER     | E4N00171      | HC-E4N-3Q/E8501B-3.5[*1]/BULK     | 1        | A/C     |  |
| PROPELLER     | E4N00171KD    | HC-E4N-3Q/E8501B-3.5[*1]/BULK     | 1        | A/C     |  |
| PROPELLER     | E4N00171S     | HC-E4N-3Q/E8501B-3.5[*1]630-5P    | 1        | A/C     |  |
| BLADE         | E8501-3.5     | PCP:BLADE UNIT, ALUMINUM          | 4        | Prop    |  |
| BLADE         | E8501B-3.5    | PCP:BLADE UNIT, 4H1601-10 BOOT    | 4        | Prop    | Superseded by E8501B-3.5*1                         |
| BLADE         | E8501B-3.5*1  | PCP:BLADE UNIT, 102878 BOOT       | 4        | Prop    | Supersedes E8501B-3.5                              |
| SPINNER       | D-630-5       | SPINNER ASSEMBLY                  | 1        | Prop    |  |
| SPINNER       | D-630-5P      | SPINNER ASSEMBLY                  | 1        | Prop    |  |
| SPIN MTG KIT  | A-2070-7      | SCREW, 1/4-28, BUTTON HEAD        | 8        | Prop    |  |
| COUNTERWEIGHT | C-472-1       | PCP:COUNTERWEIGHT                 | 1        | Blade   |  |
| DE-ICER       | 102878        | DE-ICE BOOT                       | 1        | Blade   | Supersedes 4H1601-10                               |
| DE-ICER       | 4H1601-10     | DE-ICE BOOT                       | 1        | Blade   | Supersedes 7931-4E1601-10,<br>Superseded by 102878 |
| DE-ICE KIT PR | 7931-5E2702-1 | DE-ICE KIT (ONE PROP)             | 1        | Prop    |  |
| MTG BOLT/STUD | B-3339-1      | BOLT, MOUNTING, 9/16-18, 12 POINT | 8        | Prop    |  |
| MISC ACCES    | A-3044        | BLOCK, BETA FEEDBACK- ASSEMBLY    | 1        | Prop    |  |
| OVERHAUL KIT  | HC-E4N-3Q-OH  | O/H KIT                           | 1        | Prop    | For aftermarket use only                           |

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**PIPER**

**Model:** PA-46-310P  
**Trade Name:** MAILIBU  
**Aircraft T.C./STC:** LBA STC 0317/1076  
**Propeller Model:** PHC-C3YF-1RF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** F7663D-2Q  
**Prop Diameter:** 76

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 14.0 +-0.1  
**Stud Protrusion** 1.450 +-0.030

**Non-HPI Items:**

**Non-HPI Spinner:**

**IDS No.:** 2490      **Rev.:** 2      **IC Date:** 07/16/2015

**Modifier:** MT PROPELLER  
**Engine Model:** TSIO-520-BE  
**Power:** 310 HP @ 2600 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 33.9 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:** WOODWARD

**Hartzell Approved Items:**

| Item Type     | Item Number     | Description                | Quantity | Qty Per | Comments                                   |
|---------------|-----------------|----------------------------|----------|---------|--|
| PROPELLER     | C3F00150        | PHC-C3YF-1RF/F7663D-2Q/SM7 | 1        | A/C     |  |
| PROPELLER     | C3F00150KD      | PHC-C3YF-1RF/F7663D-2Q/SM7 | 1        | A/C     |  |
| BLADE         | F7663D-2Q       | PCP:BLADE UNIT, ALUMINUM   | 3        | Prop    |  |
| SPINNER       | A-2295-1P       | SPINNER ASSEMBLY           | 1        | A/C     |  |
| SPIN MTG KIT  | A-2476-7        | SPINNER - MTG KIT          | 1        | Prop    |  |
| MTG BOLT/STUD | A-2429-4        | STUD, MOUNTING, 1/2-20     | 6        | Prop    | Use w/E-7154-2R Hub Only                   |
| MTG BOLT/STUD | A-2429-7        | STUD, MOUNTING, 1/2-20     | 6        | Prop    | Use with E-7154-12R & E-7154-42R hubs only |
| OVERHAUL KIT  | PHC-C3YF-1RF*1  | O/H KIT W/O SLIMSERTS      | 1        | Prop    | For aftermarket use only                   |
| OVERHAUL KIT  | PHC-C3YF-1RF-OH | O/H KIT                    | 1        | Prop    | For aftermarket use only                   |

**PIPER**

**Model:** PA-24-260  
**Trade Name:** COMANCHE 260, 260B  
**Aircraft T.C./STC:** STC-SA288CH  
**Propeller Model:** HC-C3YR-1RF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** F7590  
**Prop Diameter:** 77.0" TO 76.0"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.8 +-0.2  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**IDS No.:** 2578      **Rev.:** 1      **BC Date:** 08/08/2014

**Modifier:** HARTZELL PROPELLER  
**Engine Model:** IO-540-D4A5, -E4A5  
**Power:** 260 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:** Also requires installation of LoPresti STC ST00426AT for cowl and spinner compatibility.

**Startlock Angle:** NA  
**Feather/High Angle:** 30.5 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type     | Item Number     | Description                  | Quantity | Qty Per | Comments |
|---------------|-----------------|------------------------------|----------|---------|----------|
| PROPELLER     | C3R00023SKDTP*1 | C3R00023/SM7/A-2295-1P       | 1        | A/C     |          |
| PROPELLER     | C3R00023STP*1   | C3R00023/SM7/A-2295-1P       | 1        | A/C     |          |
| BLADE         | F7590           | PCP:BLADE UNIT, ALUM [6,1,5] | 3        | Prop    |          |
| SPINNER       | A-2295-1        | SPINNER ASSEMBLY             | 1        | Prop    |          |
| SPINNER       | A-2295-1P       | SPINNER ASSEMBLY             | 1        | Prop    |          |
| SPIN MTG KIT  | A-2476-7        | SPINNER - MTG KIT            | 1        | Prop    |          |
| MTG BOLT/STUD | A-2067          | STUD, MOUNTING, 1/2-20       | 6        | Prop    |          |

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PIPER

**Model:** PA-28R-200,-201, PA-28RT-201  
**Trade Name:** ARROW II, III, IV  
**Aircraft T.C./STC:** STC-SA4528NM  
**Propeller Model:** HC-C3YR-1RF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** F7282  
**Prop Diameter:** 74.0" TO 73.0"

**IDS No.:** 2579      **Rev.:** 1      **BC Date:** 07/24/2014

**Modifier:** HARTZELL PROPELLER  
**Engine Model:** IO-360-C1C(6)  
**Power:** 200 HP @ 2700 RPM  
**Placard/Restr:** Refer to STC and 8110-3 form  
**Notes:** Also requires installation of LoPresti STC SA01319AT for cowl and spinner compatibility.

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.5 +/-0.1  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 30.0 +/-0.5  
**Cwt Angle:**

### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>       | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|--------------------------|-----------------|----------------|-----------------|
| PROPELLER        | C3R00022SKDTP*3    | C3R00022/SM7/A-2295-4P   | 1               | A/C            |                 |
| PROPELLER        | C3R00022STP*3      | C3R00022/SM7/A-2295-4P   | 1               | A/C            |                 |
| BLADE            | F7282              | PCP:BLADE UNIT, ALUMINUM | 3               | Prop           |                 |
| SPINNER          | A-2295-4P          | SPINNER ASSEMBLY         | 1               | Prop           |                 |
| SPIN MTG KIT     | A-2476-7           | SPINNER - MTG KIT        | 1               | Prop           |                 |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20   | 6               | Prop           |                 |

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### PIPER

**Model:** PA-32-260  
**Trade Name:** CHEROKEE SIX 260  
**Aircraft T.C./STC:** STC-SA1105CH  
**Propeller Model:** HC-C3YR-1RF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** F7693F  
 F7693F\*2  
**Prop Diameter:** 78" TO 77"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 10.7 +-0.2  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

#### Hartzell Approved Items:

| Item Type     | Item Number    | Description                  | Quantity | Qty Per | Comments                 |
|---------------|----------------|------------------------------|----------|---------|--------------------------|
| PROPELLER     | C3R01301       | HC-C3YR-1RF/F7693F[*2]/SM7   | 1        | A/C     |                          |
| PROPELLER     | C3R01301KD     | HC-C3YR-1RF/F7693F[*2]/SM7   | 1        | A/C     |                          |
| PROPELLER     | C3R01301SKDTP  | C3R01301/SM7/A-2295-1P       | 1        | A/C     |                          |
| PROPELLER     | C3R01301STP    | C3R01301/SM7/A-2295-1P       | 1        | A/C     |                          |
| BLADE         | F7693F         | PCP:BLADE UNIT, ALUM [1,1,1] | 3        | Prop    | Superseded by F7693F*2   |
| BLADE         | F7693F*2       | PCP:BLADE UNIT, ALUM [6,1,1] | 3        | Prop    | Supersedes F7693F        |
| SPINNER       | A-2295-1       | SPINNER ASSEMBLY             | 1        | Prop    |                          |
| SPINNER       | A-2295-1P      | SPINNER ASSEMBLY             | 1        | Prop    |                          |
| SPIN MTG KIT  | A-2476-7       | SPINNER - MTG KIT            | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2067         | STUD, MOUNTING, 1/2-20       | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-C3YR-1RF-OH | O/H KIT                      | 1        | Prop    | For aftermarket use only |

**IDS No.:** 2580      **Rev.:** 3      **IC Date:** 07/16/2015

**Modifier:** HARTZELL PROPELLER

**Engine Model:** O-540-E4B5

**Power:** 260 HP @ 2700 RPM

**Placard/Restr:**

**Notes:** Also requires installation of LoPresti STC SA01660AT for cowl and spinner compatibility.

**Startlock Angle:** NA

**Feather/High Angle:** 31.0 +-1.0

**Cwt Angle:**

**Non-HPI Governor:**

### PIPER PA-60

**Model:** see AEROSTAR AIRCRAFT CORP.  
**Trade Name:**  
**Aircraft T.C./STC:**  
**Propeller Model:**  
**Propeller T.C.:**  
**Blade Model(s):**  
**Prop Diameter:**

#### Prop Setup:

**Ref. Radius:**  
**Reverse Angle:**  
**Low Pitch Angle:**  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

#### Hartzell Approved Items:

**IDS No.:** 1379      **Rev.:** -      **DM Date:** 10/01/1992

**Modifier:**

**Engine Model:**

**Power:** HP @ RPM

**Placard/Restr:**

**Notes:**

**Startlock Angle:**

**Feather/High Angle:**

**Cwt Angle:**

**Non-HPI Governor:**

# HARTZELL

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### PIRTEL (JOHNSON ROCKET)

Model: JOHNSON ROCKET 185

Trade Name:

Aircraft T.C./STC: STC-SA4-22

Propeller Model: HC-12X20-8D

Propeller T.C.:

Blade Model(s): B8428-6

Prop Diameter: 78"

#### Prop Setup:

Ref. Radius: 30

Reverse Angle: NA

Low Pitch Angle:

Stud Protrusion

#### Non-HPI Items:

Non-HPI Spinner:

#### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u> | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|--------------------|-----------------|----------------|-----------------|
| BLADE            | B8428-6            | IDS Item           | 2               | Prop           |                 |
| COUNTERWEIGHT    | 833-10             | IDS Item           | 1               | Blade          |                 |

IDS No.: 892 Rev.: - DM Date: 10/01/1992

Modifier: ALBERT MISENIC

Engine Model:

Power: HP @ RPM

Placard/Restr:

Notes:

Startlock Angle:

Feather/High Angle:

Cwt Angle: Positive

Non-HPI Governor:

### PITTS

Model: see AVIAT

Trade Name:

Aircraft T.C./STC:

Propeller Model:

Propeller T.C.:

Blade Model(s):

Prop Diameter:

#### Prop Setup:

Ref. Radius:

Reverse Angle:

Low Pitch Angle:

Stud Protrusion

#### Non-HPI Items:

Non-HPI Spinner:

#### Hartzell Approved Items:

IDS No.: 893 Rev.: - DM Date: 10/01/1992

Modifier:

Engine Model:

Power: HP @ RPM

Placard/Restr:

Notes:

Startlock Angle:

Feather/High Angle:

Cwt Angle:

Non-HPI Governor:



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### POLISH AVIATION (MIELEC)

IDS No.: 1063      Rev.: 2      IC      Date: 07/06/2015

**Model:** M-28  
**Trade Name:** SKYTRUCK  
**Aircraft T.C./STC:** A56CE  
**Propeller Model:** HC-B5MP-3D  
**Propeller T.C.:** P44GL  
**Blade Model(s):** M10876ANS  
M10876ANSK\*1  
**Prop Diameter:** 111.0" TO 110.7"

**Modifier:**  
**Engine Model:** PT6A-65B  
**Power:** 1100 HP @ 1700 RPM  
**Placard/Restr:** see 8110-3 form dated 12/12/94  
**Notes:** Mielec production of Antonov An-28PT

#### Prop Setup:

**Ref. Radius:** 42  
**Reverse Angle:** -14.0 +-0.5  
**Low Pitch Angle:** 17.0 +-0.2  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 79.0 +-0.5  
**Cwt Angle:** Positive

#### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:** WOODWARD

#### Hartzell Approved Items:

| Item Type          | Item Number   | Description                       | Quantity | Qty Per | Comments                    |
|--------------------|---------------|-----------------------------------|----------|---------|-----------------------------|
| PROPELLER          | B5P10200S     | HC-B5MP-3D/M10876ANSK[*1]         | 2        | A/C     |                             |
| PROPELLER          | B5P10200SKD   | HC-B5MP-3D/M10876ANSK[*1]         | 2        | A/C     |                             |
| PROPELLER          | B5P10201SKD   | HC-B5MP-3D/M10876ANS/D-3434-8P    | 2        | A/C     |                             |
| BLADE              | M10876ANS     | PCP:BLADE UNIT, ALUMINUM          | 5        | Prop    |                             |
| BLADE              | M10876ANSK*1  | PCP:BLADE UNIT, ALUM,4H3035-10    | 5        | Prop    |                             |
| SPINNER            | D-3434-8P     | SPINNER ASSEMBLY                  | 1        | Prop    |                             |
| SPIN MTG KIT       | B-3384-4      | BOLT, 1/4-28, HEX HEAD            | 10       | Prop    |                             |
| SPIN MTG KIT       | B-3851-0463   | WASHER                            | 10       | Prop    |                             |
| SP MT KIT DE-ICE   | B-3384-8H     | BOLT, 1/4-28, HEX HEAD            | 10       | Prop    |                             |
| SP MT KIT DE-ICE   | B-3808-4      | NUT,HEX,SELF-LOCKING              | 10       | Prop    |                             |
| SP MT KIT DE-ICE   | B-3837-0432   | WASHER, CORROSION RESISTANT       | 10       | Prop    |                             |
| SP MT KIT DE-ICE   | B-7077-52     | BELLEVILLE SPRING WASHER          | 10       | Prop    |                             |
| COUNTERWEIGHT SLUG | B-3343        | PCP:SLUG, COUNTERWEIGHT           | 1        | Blade   |                             |
| COUNTERWEIGHT SLUG | B-3386-14H    | BOLT,3/8-24,HEX HEAD              | 2        | Blade   |                             |
| COUNTERWEIGHT SLUG | B-3834-0632   | WASHER                            | 2        | Blade   |                             |
| DE-ICER            | 4H3035-10     | DE-ICE BOOT                       | 1        | Blade   | Supersedes 7931-4E3035-10   |
| DE-ICE KIT PR      | 7931-67-760-1 | DE-ICE KIT (ONE PROP)             | 1        | Prop    |                             |
| MTG BOLT/STUD      | B-3339        | BOLT, MOUNTING, 9/16-18, 12 POINT | 8        | Prop    |                             |
| MISC ACCES         | A-6741-158    | EROSION TAPE, 2" WIDE, 108' RL    | 0        | Blade   | Included in blade BOM (17") |
| OVERHAUL KIT       | HC-B5MP-3D-OH | O/H KIT                           | 1        | Prop    | For aftermarket use only    |

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### POLISH AVIATION (MIELEC)

**Model:** M-28B  
**Trade Name:** BRYZA-1R  
**Aircraft T.C./STC:** Unknown  
**Propeller Model:** HC-B5MP-3D  
**Propeller T.C.:** P44GL  
  
**Blade Model(s):** M10876ANS  
M10876ANSK\*4  
  
**Prop Diameter:** 111.0" TO 110.7"

#### Prop Setup:

**Ref. Radius:** 42  
**Reverse Angle:** -14.0 +-0.5  
**Low Pitch Angle:** 17.0 +-0.2  
**Stud Protrusion**

**IDS No.:** 1648      **Rev.:** 4      **IC Date:** 07/06/2015

**Modifier:** POLSKIE ZAKLADY LOTNICZE  
**Engine Model:** PZL-10S  
**Power:** 960 HP @ 1700 RPM  
**Placard/Restr:** refer to 8110-3 form dated 12/12/94 for similar installation

**Notes:** Modified Antonov An-28; Install #8672-2 erosion tape (3M) on deicers.

**Startlock Angle:** NA  
**Feather/High Angle:** 79.0 +-0.5  
**Cwt Angle:** Positive

#### Non-HPI Items:

**Non-HPI Spinner:** CUSTOMER SUPPLIED

**Non-HPI Governor:** PZL-HYDRAL R2YANH

#### Hartzell Approved Items:

| Item Type          | Item Number   | Description                       | Quantity | Qty Per | Comments                    |
|--------------------|---------------|-----------------------------------|----------|---------|-----------------------------|
| PROPELLER          | B5P10201S     | HC-B5MP-3D/M10876ANS/D-3434-8P    | 2        | A/C     |                             |
| PROPELLER          | B5P10201SKD   | HC-B5MP-3D/M10876ANS/D-3434-8P    | 2        | A/C     |                             |
| PROPELLER          | B5P10202      | HC-B5MP-3D/M10876ANSK[*4]         | 2        | A/C     |                             |
| PROPELLER          | B5P10202KD    | HC-B5MP-3D/M10876ANSK[*4]         | 2        | A/C     |                             |
| BLADE              | M10876ANS     | PCP:BLADE UNIT, ALUMINUM          | 5        | Prop    |                             |
| BLADE              | M10876ANSK*4  | PCP:BLADE UNIT, ALUM, 103020      | 5        | Prop    |                             |
| SPIN MTG KIT       | B-3384-4      | BOLT, 1/4-28, HEX HEAD            | 10       | Prop    |                             |
| SPIN MTG KIT       | B-3851-0463   | WASHER                            | 10       | Prop    |                             |
| SP MT KIT DE-ICE   | B-3384-8H     | BOLT, 1/4-28, HEX HEAD            | 10       | Prop    |                             |
| SP MT KIT DE-ICE   | B-3808-4      | NUT,HEX,SELF-LOCKING              | 10       | Prop    |                             |
| SP MT KIT DE-ICE   | B-3837-0432   | WASHER, CORROSION RESISTANT       | 10       | Prop    |                             |
| SP MT KIT DE-ICE   | B-7077-52     | BELLEVILLE SPRING WASHER          | 10       | Prop    |                             |
| COUNTERWEIGHT SLUG | B-3343        | PCP:SLUG, COUNTERWEIGHT           | 1        | Blade   |                             |
| COUNTERWEIGHT SLUG | B-3386-14H    | BOLT,3/8-24,HEX HEAD              | 2        | Blade   |                             |
| COUNTERWEIGHT SLUG | B-3834-0632   | WASHER                            | 2        | Blade   |                             |
| DE-ICER            | 103020        | DE-ICE BOOT                       | 1        | Blade   | Supersedes 4H4048-10        |
| DE-ICER            | 4H4048-10     | DE-ICE BOOT                       | 1        | Blade   | Supersedes 7931-4E4048-10   |
| DE-ICE KIT PR      | 7931-5E2691-1 | DE-ICE KIT (ONE PROP)             | 1        | Prop    |                             |
| MTG BOLT/STUD      | B-3339        | BOLT, MOUNTING, 9/16-18, 12 POINT | 8        | Prop    |                             |
| MISC ACCES         | A-6741-158    | EROSION TAPE, 2" WIDE, 108' RL    | 0        | Blade   | Included in blade BOM (17") |
| OVERHAUL KIT       | HC-B5MP-3D-OH | O/H KIT                           | 1        | Prop    | For aftermarket use only    |

# HARTZELL

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### POLISH AVIATION (MIELEC)

**Model:** M-28B  
**Trade Name:** BRYZA-1R  
**Aircraft T.C./STC:** Unknown  
**Propeller Model:** HC-B5MP-3G  
**Propeller T.C.:** P44GL  
  
**Blade Model(s):** M10876ANSK\*4  
**Prop Diameter:** 111.0" TO 110.7"

**IDS No.:** 1904      **Rev.:** 4      **IC Date:** 07/06/2015

**Modifier:** POLSKIE ZAKLADY LOTNICZE  
**Engine Model:** PZL-10S  
**Power:** 960 HP @ 1700 RPM  
**Placard/Restr:** refer to 8110-3 form dated 12/12/94 for similar installation  
  
**Notes:** Modified Antonov An-28; Install #8672-2 erosion tape (3M) on deicers; HC-B5MP-3G model uses seals which are compatible with Castrol 599 and Exxon/BP ETO 25 oil.

#### Prop Setup:

**Ref. Radius:** 42  
**Reverse Angle:** -14.0 +-0.5  
**Low Pitch Angle:** 17.0 +-0.2  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 79.0 +-0.5  
**Cwt Angle:** Positive

#### Non-HPI Items:

**Non-HPI Spinner:** CUSTOMER SUPPLIED

**Non-HPI Governor:** PZL-HYDRAL R2YANH

#### Hartzell Approved Items:

| <u>Item Type</u>   | <u>Item Number</u> | <u>Description</u>                | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>             |
|--------------------|--------------------|-----------------------------------|-----------------|----------------|-----------------------------|
| PROPELLER          | B5P10401           | HC-B5MP-3G/M10876ANSK[*4]         | 2               | A/C            |                             |
| PROPELLER          | B5P10401KD         | HC-B5MP-3G/M10876ANSK[*4]         | 2               | A/C            |                             |
| BLADE              | M10876ANSK*4       | PCP:BLADE UNIT, ALUM, 103020      | 5               | Prop           |                             |
| SPIN MTG KIT       | B-3384-4           | BOLT, 1/4-28, HEX HEAD            | 10              | Prop           |                             |
| SPIN MTG KIT       | B-3851-0463        | WASHER                            | 10              | Prop           |                             |
| SP MT KIT DE-ICE   | B-3384-8H          | BOLT, 1/4-28, HEX HEAD            | 10              | Prop           |                             |
| SP MT KIT DE-ICE   | B-3808-4           | NUT,HEX,SELF-LOCKING              | 10              | Prop           |                             |
| SP MT KIT DE-ICE   | B-3837-0432        | WASHER, CORROSION RESISTANT       | 10              | Prop           |                             |
| SP MT KIT DE-ICE   | B-7077-52          | BELLEVILLE SPRING WASHER          | 10              | Prop           |                             |
| COUNTERWEIGHT SLUG | B-3343             | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          |                             |
| COUNTERWEIGHT SLUG | B-3386-14H         | BOLT,3/8-24,HEX HEAD              | 2               | Blade          |                             |
| COUNTERWEIGHT SLUG | B-3834-0632        | WASHER                            | 2               | Blade          |                             |
| DE-ICER            | 103020             | DE-ICE BOOT                       | 1               | Blade          | Supersedes 4H4048-10        |
| DE-ICER            | 4H4048-10          | DE-ICE BOOT                       | 1               | Blade          | Supersedes 7931-4E4048-10   |
| DE-ICE KIT PR      | 7931-5E2691-1      | DE-ICE KIT (ONE PROP)             | 1               | Prop           |                             |
| MTG BOLT/STUD      | B-3339             | BOLT, MOUNTING, 9/16-18, 12 POINT | 8               | Prop           |                             |
| MISC ACCES         | A-6741-158         | EROSION TAPE, 2" WIDE, 108' RL    | 0               | Blade          | Included in blade BOM (17") |
| OVERHAUL KIT       | HC-B5MP-3G-OH      | O/H KIT                           | 1               | Prop           | For aftermarket use only    |

# HARTZELL

## APPLICATION GUIDE

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PROCAER

**Model:** F15/B  
**Trade Name:** PICCHIO  
**Aircraft T.C./STC:** A1IN  
**Propeller Model:** HC-92ZK-8D  
**Propeller T.C.:** P892  
**Blade Model(s):** 8447A-12A  
 8447AN-12A  
**Prop Diameter:** 71.6" TO 70"

**Prop Setup:**

**Ref. Radius:** 33  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.0 +-0.2  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number | Description                      | Quantity | Qty Per | Comments |
|---------------|-------------|----------------------------------|----------|---------|----------|
| BLADE         | 8447A-12A   | BLADE UNIT, ALUMINUM             | 2        | Prop    |          |
| BLADE         | 8447AN-12A  | PCP:BLADE UNIT, ALUMINUM         | 2        | Prop    |          |
| SPINNER       | 835-30      | SPINNER ASSEMBLY                 | 1        | Prop    |          |
| MTG BOLT/STUD | A-1333      | BOLT, MOUNTING, 1/2-20, HEX HEAD | 4        | Prop    |          |
| MTG BOLT/STUD | A-1333-2    | IDS Item                         | 2        | Prop    |          |

**IDS No.:** 894      **Rev.:** -      **DM Date:** 09/10/2004

**Modifier:**  
**Engine Model:** O-360-A1A  
**Power:** 180 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 27.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

PROCAER

**Model:** F15/B  
**Trade Name:** PICCHIO  
**Aircraft T.C./STC:** Unknown  
**Propeller Model:** HC-C2YK-1BF  
**Propeller T.C.:** P-920  
  
**Blade Model(s):** F7666A-4  
**Prop Diameter:** 72"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 15.0 +-0.1  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number    | Description              | Quantity | Qty Per | Comments                 |
|---------------|----------------|--------------------------|----------|---------|--------------------------|
| PROPELLER     | C2K00065       | HC-C2YK-1BF/F7666A-4     | 1        | A/C     |                          |
| BLADE         | F7666A-4       | PCP:BLADE UNIT, ALUMINUM | 2        | Prop    |                          |
| SPINNER       | 835-20         | IDS Item                 | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2067         | STUD, MOUNTING, 1/2-20   | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-C2YK-1BF-OH | O/H KIT                  | 1        | Prop    | For aftermarket use only |

**IDS No.:** 895      **Rev.:** 1      **IC Date:** 07/07/2015

**Modifier:**  
**Engine Model:** O-360-A1A  
**Power:** 180 HP @ 2700 RPM  
**Placard/Restr:** Avoid continuous operation between 2000 and 2250 RPM  
**Notes:**

**Startlock Angle:**  
**Feather/High Angle:** 28.8 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

# HARTZELL

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### PROCAER

**Model:** F15/E  
**Trade Name:** PICCHIO  
**Aircraft T.C./STC:** A28EU  
**Propeller Model:** HC-C2YF-1BF  
**Propeller T.C.:**  
**Blade Model(s):** F8475-6  
**Prop Diameter:** 78" TO 77"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.0 +-0.2  
**Stud Protrusion** 1.450 +-0.030

#### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 897      **Rev.:** -      **DM Date:** 06/06/2006

**Modifier:**  
**Engine Model:** IO-520-F  
**Power:** 300 HP @ 2850 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 30.7 +-0.5  
**Cwt Angle:**

**Non-HPI Governor:** WOODWARD

#### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>           | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|------------------------------|-----------------|----------------|-----------------|
| BLADE            | F8475-6            | PCP:BLADE UNIT, ALUM [1,1,1] | 2               | Prop           |                 |
| SPINNER          | 835-23             | SPINNER ASSEMBLY             | 1               | Prop           |                 |
| MTG BOLT/STUD    | A-2429-4           | STUD, MOUNTING, 1/2-20       | 6               | Prop           |                 |

### PROP JETS INC.

**Model:** 200A,B,C  
**Trade Name:** ROCKWELL,MEYERS  
**Aircraft T.C./STC:** 3A18  
**Propeller Model:** HC-82XF-1A, HC-A2XF-1A, HC-82XF-1DB1  
**Propeller T.C.:** P24EA  
**Blade Model(s):** 8433-4  
**Prop Diameter:** 80.2" TO 78"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 14.0+-0.2  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 2274      **Rev.:** -      **DM Date:** 11/20/2003

**Modifier:**  
**Engine Model:** IO-470-D  
**Power:** 260 HP @ 2625 RPM  
**Placard/Restr:**

**Notes:**  
**Startlock Angle:** NA  
**Feather/High Angle:** 25.6 MIN  
**Cwt Angle:** Positive

**Non-HPI Governor:** WOODWARD

#### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>               | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|----------------------------------|-----------------|----------------|-----------------|
| BLADE            | 8433-4             | BLADE                            | 2               | Prop           |                 |
| SPINNER          | 835-13             | SPINNER ASSEMBLY                 | 1               | Prop           |                 |
| SPINNER          | 835-3              | IDS Item                         | 1               | Prop           |                 |
| MTG BOLT/STUD    | A-1328-1           | BOLT, MOUNTING, 1/2-20, 12 POINT | 6               | Prop           |                 |

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PROP JETS INC.

IDS No.: 2275 Rev.: - DM Date: 11/20/2003

**Model:** 200A,B,C  
**Trade Name:** ROCKWELL,MEYERS  
**Aircraft T.C./STC:** 3A18  
**Propeller Model:** HC-82VF-1A, HC-A2VF-1A, HC-82VF-1DB1

**Modifier:**  
**Engine Model:** IO-470-D  
**Power:** 260 HP @ 2625 RPM  
**Placard/Restr:**

**Propeller T.C.:** P24EA  
**Blade Model(s):** V8433-4  
V8433-4R  
V8433N-4  
V8433N-4R  
**Prop Diameter:** 80.2" TO 78"

**Notes:**

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 14.0+-0.2  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 25.6 MIN  
**Cwt Angle:** Positive

### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:** WOODWARD

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>            | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|-------------------------------|-----------------|----------------|-----------------|
| BLADE            | V8433-4            | BLADE                         | 2               | Prop           |                 |
| BLADE            | V8433-4R           | BLADE                         | 2               | Prop           |                 |
| BLADE            | V8433N-4           | BLADE                         | 2               | Prop           |                 |
| BLADE            | V8433N-4R          | BLADE                         | 2               | Prop           |                 |
| SPINNER          | 835-13             | SPINNER ASSEMBLY              | 1               | Prop           |                 |
| SPINNER          | 835-3              | IDS Item                      | 1               | Prop           |                 |
| MTG BOLT/STUD    | A-1328-1           | BOLT,MOUNTING,1/2-20,12 POINT | 6               | Prop           |                 |

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PROP JETS INC.

**Model:** 200A,B,C  
**Trade Name:** ROCKWELL,MEYERS  
**Aircraft T.C./STC:** 3A18  
**Propeller Model:** HC-A2MVF-1A  
**Propeller T.C.:** P24EA  
**Blade Model(s):** MV8433N-4  
MV8433NR-4  
**Prop Diameter:** 80.2" TO 78"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 14.0+0.2  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 899 **Rev.:** 2 **IC Date:** 07/06/2015

**Modifier:**  
**Engine Model:** IO-470-D  
**Power:** 260 HP @ 2625 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 25.6 MIN  
**Cwt Angle:** Positive

**Non-HPI Governor:** WOODWARD

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>             | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|--------------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | A2F10023           | HC-A2MVF-1A/MV8433N-4          | 1               | A/C            |                          |
| BLADE            | MV8433N-4          | PCP:BLADE UNIT, ALUMINUM       | 2               | Prop           |                          |
| BLADE            | MV8433NR-4         | IDS ITEM, BLADE                | 2               | Prop           |                          |
| SPINNER          | 835-13             | SPINNER ASSEMBLY               | 1               | Prop           |                          |
| SPINNER          | 835-3              | IDS Item                       | 1               | Prop           |                          |
| MTG BOLT/STUD    | A-1328-1           | BOLT,MOUNTING, 1/2-20,12 POINT | 6               | Prop           |                          |
| OVERHAUL KIT     | HC-A2MVF-1A-OH     | O/H KIT                        | 1               | Prop           | For aftermarket use only |

PROP JETS INC.

**Model:** 200C  
**Trade Name:** ROCKWELL,MEYERS  
**Aircraft T.C./STC:** 3A18  
**Propeller Model:** HC-C2YF-1A  
**Propeller T.C.:**  
**Blade Model(s):** F8468-4  
**Prop Diameter:** 80" NO CUT OFF

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 14.0 +0.2  
**Stud Protrusion** 1.450 +0.030

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 900 **Rev.:** - **DM Date:** 06/06/2006

**Modifier:**  
**Engine Model:** IO-470-D  
**Power:** 260 HP @ 2625 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 30.5 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:** WOODWARD

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>       | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|--------------------------|-----------------|----------------|-----------------|
| BLADE            | F8468-4            | PCP:BLADE UNIT, ALUMINUM | 2               | Prop           |                 |
| SPINNER          | 835-23             | SPINNER ASSEMBLY         | 1               | Prop           |                 |
| MTG BOLT/STUD    | A-2429-4           | STUD, MOUNTING, 1/2-20   | 6               | Prop           |                 |

# HARTZELL

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PROP JETS INC.

**Model:** 200  
**Trade Name:** ROCKWELL,MEYERS  
**Aircraft T.C./STC:** 3A18  
**Propeller Model:** HC-82XF-1A, HC-A2XF-1A, HC-82XF-1DB1  
**Propeller T.C.:** P24EA  
**Blade Model(s):**  
**Prop Diameter:** 84" TO 82.5"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.0 +-0.2  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 2272      **Rev.:** -      **DM Date:** 11/20/2003

**Modifier:**  
**Engine Model:** O-470-M  
**Power:** 240 HP @ 2600 RPM  
**Placard/Restr:**

**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 24.0 +-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:** WOODWARD

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>            | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|-------------------------------|-----------------|----------------|-----------------|
| SPINNER          | 835-13             | SPINNER ASSEMBLY              | 1               | Prop           |                 |
| SPINNER          | 835-3              | IDS Item                      | 1               | Prop           |                 |
| MTG BOLT/STUD    | A-1328-1           | BOLT,MOUNTING,1/2-20,12 POINT | 6               | Prop           |                 |

PROP JETS INC.

**Model:** 200  
**Trade Name:** ROCKWELL,MEYERS  
**Aircraft T.C./STC:** 3A18  
**Propeller Model:** HC-82VF-1A, HC-A2VF-1A, HC-82VF-1DB1  
**Propeller T.C.:** P24EA  
**Blade Model(s):** V8433NS  
V8433S  
**Prop Diameter:** 84" TO 82.5"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.0 +-0.2  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 2273      **Rev.:** -      **DM Date:** 11/20/2003

**Modifier:**  
**Engine Model:** O-470-M  
**Power:** 240 HP @ 2600 RPM  
**Placard/Restr:**

**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 24.0 +-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:** WOODWARD

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>            | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|-------------------------------|-----------------|----------------|-----------------|
| BLADE            | V8433NS            | BLADE                         | 2               | Prop           |                 |
| BLADE            | V8433S             | BLADE                         | 2               | Prop           |                 |
| SPINNER          | 835-13             | SPINNER ASSEMBLY              | 1               | Prop           |                 |
| SPINNER          | 835-3              | IDS Item                      | 1               | Prop           |                 |
| MTG BOLT/STUD    | A-1328-1           | BOLT,MOUNTING,1/2-20,12 POINT | 6               | Prop           |                 |





# HARTZELL

## APPLICATION GUIDE

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PRUE

IDS No.: 1410 Rev.: 1 IC Date: 07/07/2015

**Model:** PRUE II  
**Trade Name:** MOTORGLIDER  
**Aircraft T.C./STC:** Experimental  
**Propeller Model:** HC-E2YL-2BSF  
**Propeller T.C.:** P9EA  
**Blade Model(s):** F7663-4  
**Prop Diameter:** 72" TO 70"

**Modifier:**  
**Engine Model:** O-320 series  
**Power:** 150 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.0 +- 0.2  
**Stud Protrusion**

**Startlock Angle:** 17.5 +- 1.5  
**Feather/High Angle:** 78.0 +- 0.5  
**Cwt Angle:**

### Non-HPI Items:

**Non-HPI Spinner:** PRUE

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>             | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|--------------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | E2L00080           | HC-E2YL-2BSF/F7663-4/SM3       | 1               | A/C            |                          |
| BLADE            | F7663-4            | PCP:BLADE UNIT, ALUMINUM       | 2               | Prop           |                          |
| GOVERNOR         | U3-15              | GOVERNOR ASSEMBLY, U-3-( )     | 1               | A/C            |                          |
| SPIN MTG KIT     | A-2476-3           | SPINNER - MTG KIT              | 1               | Prop           |                          |
| MTG BOLT/STUD    | A-2247-1           | STUD, MOUNTING,7/16-20,DRILLED | 2               | Prop           |                          |
| MTG BOLT/STUD    | B-6489-25          | BOLT,7/16-20,HEX HEAD          | 4               | Prop           |                          |
| OVERHAUL KIT     | HC-E2YL-2BSF-OH    | O/H KIT                        | 1               | Prop           | For aftermarket use only |

# HARTZELL

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**PZL 130 TC II**

IDS No.: 1744      Rev.: 4      IC      Date: 04/06/2017

**Model:** PZL-130TC11 ORLIK  
**Trade Name:** ORLIK  
**Aircraft T.C./STC:** Unknown  
**Propeller Model:** HC-D4N-2DA  
**Propeller T.C.:** P10NE

**Modifier:**  
**Engine Model:** PT6A-25C  
**Power:** 750 HP @ 2000 RPM  
**Placard/Restr:** Sustained ground operation between 1300 and 1600 RPM is prohibited; Hub life limited to 5,500 hours.

**Blade Model(s):** D9512AF  
**Prop Diameter:** 96.0" TO 95.0"

**Notes:** Reference Manual 149 for Airworthiness Limitations.

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 16.0 +-0.1  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 86.0 +-1.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u>            | <u>Item Number</u> | <u>Description</u>             | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>                       |
|-----------------------------|--------------------|--------------------------------|-----------------|----------------|---------------------------------------|
| PROPELLER                   | D4N00009S          | HC-D4N-2DA/D9512AF/D-630-1P    | 1               | A/C            |                                       |
| PROPELLER                   | D4N00009SKD        | HC-D4N-2DA/D9512AF/D-630-1P    | 1               | A/C            |                                       |
| PROPELLER                   | D4N00600S          | HC-D4N-2DA/D9512AF/D-630-9P    | 1               | A/C            |                                       |
| PROPELLER                   | D4N00600SKD        | HC-D4N-2DA/D9512AF/D-630-9P    | 1               | A/C            |                                       |
| BLADE                       | D9512AF            | PCP:BLADE UNIT, ALUMINUM       | 4               | Prop           |                                       |
| SPINNER                     | D-630-1P           | SPINNER ASSEMBLY               | 1               | Prop           |                                       |
| SPINNER                     | D-630-9P           | SPINNER ASSEMBLY               | 1               | Prop           | PZL configuration for dynamic balance |
| SPIN MTG KIT                | B-3384-2H          | BOLT, 1/4-28, HEX HEAD         | 8               | Prop           |                                       |
| SPIN MTG KIT                | B-3851-0432        | WASHER                         | 8               | Prop           |                                       |
| COUNTERWEIGHT               | C-472-2            | PCP:COUNTERWEIGHT              | 1               | Blade          |                                       |
| COUNTERWEIGHT SLUG A-1712   |                    | BOLT,3/8-24,HEX HEAD           | 1               | Blade          |                                       |
| COUNTERWEIGHT SLUG A-1713   |                    | PCP: SLUG, COUNTERWEIGHT       | 4               | Blade          |                                       |
| COUNTERWEIGHT SLUG A-2043-1 |                    | NUT,3/8-24,HEX,SELF-LOCKING    | 1               | Blade          |                                       |
| MTG BOLT/STUD               | B-3339-1           | BOLT,MOUNTING,9/16-18,12 POINT | 8               | Prop           |                                       |
| OVERHAUL KIT                | HC-D4N-2D(A)-OH    | O/H KIT                        | 1               | Prop           | For aftermarket use only              |

# HARTZELL

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PZL MIELEC

IDS No.: 3274 Rev.: 1 IC Date: 07/06/2015

**Model:** M18,M18A,M18B  
**Trade Name:** Dromader  
**Aircraft T.C./STC:** Field Approval  
**Propeller Model:** HC-B5MP-3F  
**Propeller T.C.:** P44GL

**Modifier:** Turbine Conversions  
**Engine Model:** PT6A-45 & -65 series  
**Power:** 1220 HP @ 1700 RPM  
**Placard/Restr:** Stabilized ground operation is prohibited between 400 and 900 RPM and between 1050 and 1200 RPM. Stabilized ground operation is prohibited above 1600 RPM except when the aircraft is headed into the wind. For downwind takeoffs advance above 1600 RPM only after brake release.

**Blade Model(s):** M11276N  
**Prop Diameter:** 115.2 inches

**Notes:**

**Prop Setup:**

**Ref. Radius:** 42"  
**Reverse Angle:** -10.0+-0.5  
**Low Pitch Angle:** 13.9+-0.1  
**Stud Protrusion**

**Startlock Angle:**  
**Feather/High Angle:** 83.1+-0.5  
**Cwt Angle:** 2.0+-1.0

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type          | Item Number   | Description                       | Quantity | Qty Per | Comments                 |
|--------------------|---------------|-----------------------------------|----------|---------|--------------------------|
| PROPELLER          | B5P10305S     | HC-B5MP-3F/M11276N/E-7256-P       | 1        | A/C     |                          |
| PROPELLER          | B5P10305SKD   | HC-B5MP-3F/M11276N/E-7256-P       | 1        | A/C     |                          |
| BLADE              | M11276N       | PCP:BLADE UNIT, ALUMINUM          | 5        | Prop    |                          |
| SPINNER            | E-7256-P      | SPINNER ASSEMBLY                  | 1        | Prop    |                          |
| SPIN MTG KIT       | B-3384-6H     | BOLT, 1/4-28, HEX HEAD            | 10       | Prop    |                          |
| SPIN MTG KIT       | B-3808-4      | NUT,HEX,SELF-LOCKING              | 10       | Prop    |                          |
| SPIN MTG KIT       | B-3851-0463   | WASHER                            | 10       | Prop    |                          |
| COUNTERWEIGHT SLUG | B-3386-14H    | BOLT,3/8-24,HEX HEAD              | 2        | Blade   |                          |
| COUNTERWEIGHT SLUG | B-3663-4      | PCP:SLUG, COUNTERWEIGHT           | 1        | Blade   |                          |
| COUNTERWEIGHT SLUG | B-3834-0632   | WASHER                            | 2        | Blade   |                          |
| MTG BOLT/STUD      | B-3339        | BOLT, MOUNTING, 9/16-18, 12 POINT | 8        | Prop    |                          |
| MISC ACCES         | A-3044        | BLOCK, BETA FEEDBACK- ASSEMBLY    | 2        | Prop    |                          |
| OVERHAUL KIT       | HC-B5MP-3F-OH | O/H KIT                           | 1        | Prop    | For aftermarket use only |

# HARTZELL

## APPLICATION GUIDE 159

PZL MIELEC

IDS No.: 1425      Rev.: 3      IC      Date: 07/15/2015

**Model:** PZL-106BT  
**Trade Name:** TURBO KRUK  
**Aircraft T.C./STC:** Unknown  
**Propeller Model:** HC-B3TN-3D  
**Propeller T.C.:** P15EA  
**Blade Model(s):** T10282N+4  
**Prop Diameter:** 106.5"

**Modifier:**  
**Engine Model:** PT6A-34AG  
**Power:** 750 HP @ 2200 RPM  
**Placard/Restr:**  
**Notes:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** -7.8 +-0.5  
**Low Pitch Angle:** 18.0 +-0.1  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 87.0 +-1.0  
**Cwt Angle:** Positive

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u>               | <u>Item Number</u> | <u>Description</u>                | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|--------------------------------|--------------------|-----------------------------------|-----------------|----------------|--------------------------|
| PROPELLER                      | B3N10456S          | HC-B3TN-3D/T10282N+4/D3434-12     | 1               | A/C            |                          |
| BLADE                          | T10282N+4          | PCP:BLADE UNIT, ALUM [1,1,1]      | 3               | Prop           |                          |
| SPINNER                        | D-3434-12P         | SPINNER ASSEMBLY                  | 1               | Prop           |                          |
| SPIN MTG KIT                   | B-3384-4H          | BOLT, 1/4-28, HEX HEAD            | 12              | Prop           |                          |
| SPIN MTG KIT                   | B-3808-4           | NUT,HEX,SELF-LOCKING              | 12              | Prop           |                          |
| SPIN MTG KIT                   | B-3851-0432        | WASHER                            | 24              | Prop           |                          |
| COUNTERWEIGHT SLUG A-3039      |                    | SLUG, COUNTERWEIGHT               | 1               | Blade          |                          |
| COUNTERWEIGHT SLUG A-890-6     |                    | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          | Primary                  |
| COUNTERWEIGHT SLUG A-890-8     |                    | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          | Alternate                |
| COUNTERWEIGHT SLUG A-890-9     |                    | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          | Alternate                |
| COUNTERWEIGHT SLUG B-3384-21H  |                    | BOLT, 1/4-28, HEX HEAD            | 2               | Blade          |                          |
| COUNTERWEIGHT SLUG B-3851-0432 |                    | WASHER                            | 2               | Blade          | Optional                 |
| COUNTERWEIGHT SLUG B-3851-0463 |                    | WASHER                            | 2               | Blade          | Optional                 |
| MTG BOLT/STUD                  | B-3339             | BOLT, MOUNTING, 9/16-18, 12 POINT | 8               | Prop           |                          |
| OVERHAUL KIT                   | HC-B3TN-3D-OH      | O/H KIT                           | 1               | Prop           | For aftermarket use only |

# HARTZELL

## APPLICATION GUIDE

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PZL MIELEC

IDS No.: 903 Rev.: 1 D Date: 01/10/2011

Model: PZL-130TE  
 Trade Name: ORLIK  
 Aircraft T.C./STC: Unknown  
 Propeller Model: HC-B3TN-3B  
 Propeller T.C.: P15EA  
 Blade Model(s): T10173K-11R\*1  
 T10173NK-11R\*1  
 Prop Diameter: 90.5"

Modifier:  
 Engine Model: PT6A-25A  
 Power: 550 HP @ 2200 RPM  
 Placard/Restr:  
 Notes:

**Prop Setup:**

Ref. Radius: 30  
 Reverse Angle: -11.0 +-0.5  
 Low Pitch Angle: 20.2 +-0.1  
 Stud Protrusion

Startlock Angle: NA  
 Feather/High Angle: 87.0 +-0.5  
 Cwt Angle: POSITIVE

**Non-HPI Items:**

Non-HPI Spinner:

Non-HPI Governor:

**Hartzell Approved Items:**

| Item Type                      | Item Number    | Description                       | Quantity | Qty Per | Comments                  |
|--------------------------------|----------------|-----------------------------------|----------|---------|---------------------------|
| BLADE                          | T10173K-11R*1  | IDS*ITEM, BLADE,4E2200-10 BOOT    | 3        | Prop    |                           |
| BLADE                          | T10173NK-11R*1 | IDS ITEM, BLADE,4E2200-10 BOOT    | 3        | Prop    |                           |
| SPINNER                        | C-3065         | SPINNER ASSEMBLY                  | 1        | Prop    |                           |
| COUNTERWEIGHT SLUG A-3039      |                | SLUG, COUNTERWEIGHT               | 1        | Blade   |                           |
| COUNTERWEIGHT SLUG A-890-8     |                | PCP:SLUG, COUNTERWEIGHT           | 1        | Blade   |                           |
| COUNTERWEIGHT SLUG B-3384-18H  |                | BOLT, 1/4-28, HEX HEAD            | 2        | Blade   |                           |
| COUNTERWEIGHT SLUG B-3851-0432 |                | WASHER                            | 2        | Blade   | Optional                  |
| COUNTERWEIGHT SLUG B-3851-0463 |                | WASHER                            | 2        | Blade   |                           |
| DE-ICER                        | 4H2200-10      | DE-ICE BOOT                       | 1        | Blade   | Supersedes 7931-4e2200-10 |
| MTG BOLT/STUD                  | B-3339         | BOLT, MOUNTING, 9/16-18, 12 POINT | 8        | Prop    |                           |

# HARTZELL

## APPLICATION GUIDE 159

**PZL MIELEC**

**IDS No.:** 1969      **Rev.:** 6      **IC Date:** 01/27/2020

**Model:** M18  
**Trade Name:** DROMADER  
**Aircraft T.C./STC:** STC SA00946SE  
**Propeller Model:** HC-B4TN-5NL  
**Propeller T.C.:** P40EA  
**Blade Model(s):** LT10890N  
 LT10890N\*1  
**Prop Diameter:** 109.5

**Modifier:** AG AIR SYSTEMS  
**Engine Model:** TPE-331-10  
**Power:** 900 HP @ 1591 RPM  
**Placard/Restr:**

**Notes:** Installation limited to aircraft S/N 1Z024-15.

**Prop Setup:**

**Ref. Radius:** 42  
**Reverse Angle:** -11.5 +-0.5  
**Low Pitch Angle:** NA  
**Stud Protrusion**

**Startlock Angle:** -1.4 +-0.1  
**Feather/High Angle:** 81.2 +-0.5  
**Cwt Angle:** 2.0 +-1.0

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type                      | Item Number    | Description                       | Quantity | Qty Per | Comments  |
|--------------------------------|----------------|-----------------------------------|----------|---------|---|
| PROPELLER                      | B4N10982       | HC-B4TN-5NL/LT10890N              | 1        | A/C     |   |
| PROPELLER                      | B4N10982S      | HC-B4TN-5NL/LT10890N/D-3434-7P    | 1        | A/C     |   |
| PROPELLER                      | B4N10982SKD    | HC-B4TN-5NL/LT10890N/D-3434-7P    | 1        | A/C     |   |
| PROPELLER                      | B4N10987       | HC-B4TN-5NL/LT10890N[*1]          | 1        | A/C     | Blades do not have tip stripe on face side of blade |
| BLADE                          | LT10890N       | BLADE UNIT, ALUMINUM [1,3,1]      | 1        | Prop    |   |
| BLADE                          | LT10890N*1     | PCP:BLADE UNIT, ALUM [1,1,1]      | 4        | Prop    | Do not have tip stripe on face side                 |
| SPINNER                        | D-3434-7       | SPINNER ASSEMBLY                  | 1        | Prop    |   |
| SPINNER                        | D-3434-7P      | SPINNER ASSEMBLY                  | 1        | Prop    |   |
| COUNTERWEIGHT SLUG A-890-8     |                | PCP:SLUG, COUNTERWEIGHT           | 1        | Blade   |   |
| COUNTERWEIGHT SLUG B-3384-9H   |                | BOLT, 1/4-28, HEX HEAD            | 2        | Blade   |   |
| COUNTERWEIGHT SLUG B-3386-14H  |                | BOLT,3/8-24,HEX HEAD              | 2        | Blade   |   |
| COUNTERWEIGHT SLUG B-3663-1    |                | PCP:SLUG, COUNTERWEIGHT           | 1        | Blade   |   |
| COUNTERWEIGHT SLUG B-3834-0632 |                | WASHER                            | 2        | Blade   |   |
| COUNTERWEIGHT SLUG B-3851-0432 |                | WASHER                            | 2        | Blade   | Optional  |
| COUNTERWEIGHT SLUG B-3851-0463 |                | WASHER                            | 2        | Blade   | Optional  |
| MTG BOLT/STUD                  | B-3339         | BOLT, MOUNTING, 9/16-18, 12 POINT | 8        | Prop    |   |
| OVERHAUL KIT                   | HC-B4TN-5NL-OH | O/H KIT                           | 1        | Prop    | For aftermarket use only                            |

# HARTZELL

## APPLICATION GUIDE

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PZL MIELEC

IDS No.: 1311 Rev.: 3 IC Date: 01/27/2020

**Model:** M18  
**Trade Name:** DROMADER  
**Aircraft T.C./STC:** SA09039SC  
**Propeller Model:** HC-B3TN-5U  
**Propeller T.C.:** P15EA

**Modifier:** DELTA TURBINES

**Engine Model:** TPE331-10UA

**Power:** 940 HP @ 2000 RPM

**Placard/Restr:** Maximum allowable reverse blade angle is - 16 degrees at 42 inch radius.

**Blade Model(s):** T10290N  
**Prop Diameter:** 102" max. refer to STC for min.

**Notes:**

**Prop Setup:**

**Ref. Radius:** 42"  
**Reverse Angle:** -15.5 +-0.5  
**Low Pitch Angle:** NA  
**Stud Protrusion**

**Startlock Angle:** 1.0 +-0.1

**Feather/High Angle:** 78.0 +-0.5

**Cwt Angle:** POSITIVE

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type          | Item Number | Description                       | Quantity | Qty Per | Comments |
|--------------------|-------------|-----------------------------------|----------|---------|----------|
| PROPELLER          | B3N11650S   | HC-B3TN-5U/T10290N/C-3043-2       | 1        | A/C     |          |
| PROPELLER          | B3N11651S   | HC-B3TN-5U/T10290N/D-3434-1P      | 1        | A/C     |          |
| BLADE              | T10290N     | PCP:BLADE UNIT, ALUMINUM          | 3        | Prop    |          |
| SPINNER            | C-3043-2    | SPINNER ASSEMBLY                  | 1        | Prop    |          |
| SPINNER            | C-3043-2P   | SPINNER ASSEMBLY                  | 1        | Prop    |          |
| SPINNER            | C-3043-3    | SPINNER ASSEMBLY                  | 1        | Prop    |          |
| SPINNER            | C-3043-3P   | SPINNER ASSEMBLY                  | 1        | Prop    |          |
| SPINNER            | D-3434-1    | SPINNER ASSEMBLY                  | 1        | Prop    |          |
| SPINNER            | D-3434-12   | SPINNER ASSEMBLY                  | 1        | Prop    |          |
| SPINNER            | D-3434-12P  | SPINNER ASSEMBLY                  | 1        | Prop    |          |
| SPINNER            | D-3434-1P   | SPINNER ASSEMBLY                  | 1        | Prop    |          |
| SPIN MTG KIT       | B-3384-8H   | BOLT, 1/4-28, HEX HEAD            | 9        | Prop    |          |
| SPIN MTG KIT       | B-3808-4    | NUT,HEX,SELF-LOCKING              | 9        | Prop    |          |
| SPIN MTG KIT       | B-3851-0432 | WASHER                            | 9        | Prop    |          |
| COUNTERWEIGHT SLUG | B-3386-14H  | BOLT,3/8-24,HEX HEAD              | 2        | Blade   |          |
| COUNTERWEIGHT SLUG | B-3663-4    | PCP:SLUG, COUNTERWEIGHT           | 1        | Blade   |          |
| COUNTERWEIGHT SLUG | B-3834-0632 | WASHER                            | 2        | Blade   |          |
| MTG BOLT/STUD      | B-3339      | BOLT, MOUNTING, 9/16-18, 12 POINT | 8        | Prop    |          |



# HARTZELL

## APPLICATION GUIDE

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PZL MIELEC

IDS No.: 1440 Rev.: 3 IC Date: 01/27/2020

**Model:** M18  
**Trade Name:** DROMEDER  
**Aircraft T.C./STC:** STC SA9039SC  
**Propeller Model:** HC-B5MP-5BL  
**Propeller T.C.:** P44GL

**Modifier:** DELTA TURBINES  
**Engine Model:** TPE-331-11,-12  
**Power:** 1100 HP @ 1591 RPM  
**Placard/Restr:** Ground idle engine RPM must be at or above 65%

**Blade Model(s):** LM11692N  
**Prop Diameter:** 118.7" to 118.2 "

**Notes:** N/A

### Prop Setup:

**Ref. Radius:** 42  
**Reverse Angle:** -5.5 +- 0.5  
**Low Pitch Angle:** NA

**Startlock Angle:** -1.8+- 0.1  
**Feather/High Angle:** 84.2 +- 0.5  
**Cwt Angle:** 6.5 +- 1.0

**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| Item Type          | Item Number    | Description                    | Quantity | Qty Per | Comments                 |
|--------------------|----------------|--------------------------------|----------|---------|--------------------------|
| PROPELLER          | B5P10521S      | HC-B5MP-5BL/LM11692N/E-6955P   | 1        | A/C     |                          |
| PROPELLER          | B5P10521SKD    | HC-B5MP-5BL/LM11692N/E-6955P   | 1        | A/C     |                          |
| BLADE              | LM11692N       | PCP:BLADE UNIT, ALUMINUM       | 5        | Prop    |                          |
| SPINNER            | E-6955-P       | SPINNER ASSEMBLY               | 1        | Prop    |                          |
| SPIN MTG KIT       | B-3384-12H     | BOLT, 1/4-28, HEX HEAD         | 5        | Prop    |                          |
| SPIN MTG KIT       | B-3384-16H     | BOLT, 1/4-28, HEX HEAD         | 5        | Prop    |                          |
| SPIN MTG KIT       | B-3808-4       | NUT,HEX,SELF-LOCKING           | 10       | Prop    |                          |
| SPIN MTG KIT       | B-3851-0463    | WASHER                         | 20       | Prop    |                          |
| COUNTERWEIGHT SLUG | B-3343-1       | PCP:SLUG, COUNTERWEIGHT        | 1        | Blade   |                          |
| COUNTERWEIGHT SLUG | B-3386-14H     | BOLT,3/8-24,HEX HEAD           | 2        | Blade   |                          |
| COUNTERWEIGHT SLUG | B-3834-0632    | WASHER                         | 2        | Blade   |                          |
| MTG BOLT/STUD      | B-3339-1       | BOLT,MOUNTING,9/16-18,12 POINT | 8        | Prop    |                          |
| OVERHAUL KIT       | HC-B5MP-5BL-OH | O/H KIT                        | 1        | Prop    | For aftermarket use only |

# HARTZELL

## APPLICATION GUIDE

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**PZL MIELEC**

**Model:** M18, M18A, M18B  
**Trade Name:** DROMADER  
**Aircraft T.C./STC:** STC-SA1014GL  
**Propeller Model:** HC-B5MP-3C  
**Propeller T.C.:** P44GL

**IDS No.:** 904      **Rev.:** 3      **IC Date:** 07/06/2015  
**Modifier:** TURBINE CONVERSIONS, LTD  
**Engine Model:** PT6A-45A, -65B, R, AG, AR  
**Power:** 1220 HP @ 1700 RPM  
**Placard/Restr:** Stabilized ground operation prohibited 400-900 RPM and 1170-1400 RPM. Prop may be operated at or below 400 RPM when feathered. Prop governor must be capable of scheduling down to at least 1170 RPM. Recommendations: 1. Taxi between 900 & 1170 RPM, advance through 1170-1400 RPM range only after aircraft lined up for takeoff. 2. Feather/unfeather prop on ground only during engine start/shutdown or with aircraft headed into wind.

**Blade Model(s):** M10876ANS  
M10876AS

**Prop Diameter:** 111.2"

**Prop Setup:**

**Ref. Radius:** 42  
**Reverse Angle:** -11.0 +/-0.5  
**Low Pitch Angle:** 16.5 +/-0.1  
**Stud Protrusion**

**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 79.0 +/-0.5  
**Cwt Angle:** Positive

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:** WOODWARD

**Hartzell Approved Items:**

| <u>Item Type</u>   | <u>Item Number</u> | <u>Description</u>                | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|--------------------|--------------------|-----------------------------------|-----------------|----------------|--------------------------|
| PROPELLER          | B5P10100           | HC-B5MP-3C/M10876ANS              | 1               | A/C            |                          |
| PROPELLER          | B5P10100KD         | HC-B5MP-3C/M10876ANS              | 1               | A/C            |                          |
| PROPELLER          | B5P10105SKD        | HC-B5MP-3C/M10876ANS/D-3434-8P    | 1               | A/C            |                          |
| BLADE              | M10876ANS          | PCP:BLADE UNIT, ALUMINUM          | 5               | Prop           |                          |
| BLADE              | M10876AS           | BLADE UNIT, ALUMINUM              | 5               | Prop           |                          |
| SPINNER            | D-3434-8           | SPINNER ASSEMBLY                  | 1               | Prop           |                          |
| SPINNER            | D-3434-8P          | SPINNER ASSEMBLY                  | 1               | Prop           |                          |
| SPIN MTG KIT       | B-3384-4           | BOLT, 1/4-28, HEX HEAD            | 10              | Prop           |                          |
| SPIN MTG KIT       | B-3808-4           | NUT,HEX,SELF-LOCKING              | 10              | Prop           |                          |
| SPIN MTG KIT       | B-3851-0463        | WASHER                            | 10              | Prop           |                          |
| COUNTERWEIGHT SLUG | B-3343             | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          |                          |
| COUNTERWEIGHT SLUG | B-3386-14H         | BOLT,3/8-24,HEX HEAD              | 2               | Blade          |                          |
| COUNTERWEIGHT SLUG | B-3834-0632        | WASHER                            | 2               | Blade          |                          |
| MTG BOLT/STUD      | B-3339             | BOLT, MOUNTING, 9/16-18, 12 POINT | 8               | Prop           |                          |
| MISC ACCES         | 101058             | SHIM, MOUNTING, PROPELLER         | 1               | Prop           | Ref SB275                |
| OVERHAUL KIT       | HC-B5MP-3C-OH      | O/H KIT                           | 1               | Prop           | For aftermarket use only |

# HARTZELL

## APPLICATION GUIDE

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PZL MIELEC

IDS No.: 1715 Rev.: 3 IC Date: 01/27/2020

**Model:** M18  
**Trade Name:** DROMEDER  
**Aircraft T.C./STC:** SA01361SE  
**Propeller Model:** HC-B5MP-5BL  
**Propeller T.C.:** P44GL

**Modifier:** AG AIR SYSTEMS  
**Engine Model:** TPE-331-11,-12  
**Power:** 1100 HP @ 1591 RPM  
**Placard/Restr:** Ground idle engine RPM must be at or above 65%

**Blade Model(s):** LM11692N  
**Prop Diameter:** 118.7" to 118.2 "

**Notes:**

**Prop Setup:**

**Ref. Radius:** 42  
**Reverse Angle:** -5.5 +- 0.5  
**Low Pitch Angle:** NA  
**Stud Protrusion**

**Startlock Angle:** -1.8+- 0.1  
**Feather/High Angle:** 84.2 +- 0.5  
**Cwt Angle:** 6.5 +- 1.0

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u>   | <u>Item Number</u> | <u>Description</u>             | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|--------------------|--------------------|--------------------------------|-----------------|----------------|--------------------------|
| PROPELLER          | B5P10522S          | HC-B5MP-5BL/LM11692N/E-6955P   | 1               | A/C            |                          |
| PROPELLER          | B5P10522SKD        | HC-B5MP-5BL/LM11692N/E-6955P   | 1               | A/C            |                          |
| BLADE              | LM11692N           | PCP:BLADE UNIT, ALUMINUM       | 5               | Prop           |                          |
| SPINNER            | E-6955-P           | SPINNER ASSEMBLY               | 1               | Prop           |                          |
| SPIN MTG KIT       | B-3384-12H         | BOLT, 1/4-28, HEX HEAD         | 5               | Prop           |                          |
| SPIN MTG KIT       | B-3384-16H         | BOLT, 1/4-28, HEX HEAD         | 5               | Prop           |                          |
| SPIN MTG KIT       | B-3808-4           | NUT,HEX,SELF-LOCKING           | 10              | Prop           |                          |
| SPIN MTG KIT       | B-3851-0463        | WASHER                         | 20              | Prop           |                          |
| COUNTERWEIGHT SLUG | B-3343-1           | PCP:SLUG, COUNTERWEIGHT        | 1               | Blade          |                          |
| COUNTERWEIGHT SLUG | B-3386-14H         | BOLT,3/8-24,HEX HEAD           | 2               | Blade          |                          |
| COUNTERWEIGHT SLUG | B-3834-0632        | WASHER                         | 2               | Blade          |                          |
| MTG BOLT/STUD      | B-3339-1           | BOLT,MOUNTING,9/16-18,12 POINT | 8               | Prop           |                          |
| OVERHAUL KIT       | HC-B5MP-5BL-OH     | O/H KIT                        | 1               | Prop           | For aftermarket use only |

# HARTZELL

## APPLICATION GUIDE

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PZL MIELEC

IDS No.: 1312      Rev.: 2      IC      Date: 07/07/2015

**Model:** M20 (Piper PA-34-220T) (left side)  
**Trade Name:** MEWA  
**Aircraft T.C./STC:** Unknown  
**Propeller Model:** BHC-C2YF-2CKUF  
**Propeller T.C.:** P-920  
**Blade Model(s):** FC8459-8R  
 FC8459B-8R  
**Prop Diameter:** 76.0" TO 75.0"

**Modifier:**  
**Engine Model:** TSIO-360-KB  
**Power:** 220 HP @ 2800 RPM  
**Placard/Restr:**

**Notes:** A/C Type Certificate A7SO for Piper PA-34-220T, Seneca III same as Pezetel M20 MEWA. Also known as Transport Equipment manufacturing Center WSK PZL Mielec.

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.6 +-0.2  
**Stud Protrusion** 1.120 +-0.030

**Startlock Angle:** 18.1 +-1.5  
**Feather/High Angle:** 80.75 +-0.75  
**Cwt Angle:**

### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>             | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|--------------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | C2F00241           | BHC-C2YF-2CKUF/FC8459-8R       | 1               | A/C            |                          |
| PROPELLER        | C2F00250           | BHC-C2YF-2CKUF/FC8459B-8R      | 1               | A/C            |                          |
| BLADE            | FC8459-8R          | PCP:BLADE UNIT, B-3202H-4 CWT  | 2               | Prop           |                          |
| BLADE            | FC8459B-8R         | PCP:BLADE UNIT, ALUM 4H1895-10 | 2               | Prop           |                          |
| SPINNER          | C-2285-2           | SPINNER ASSEMBLY               | 1               | Prop           |                          |
| SPINNER          | C-2285-2P          | SPINNER ASSEMBLY               | 1               | Prop           |                          |
| GOVERNOR         | E3-7               | GOVERNOR ASSEMBLY, E-3-( )     | 1               | A/C            |                          |
| SPIN MTG KIT     | A-2476-4           | SPINNER - MTG KIT              | 1               | Prop           |                          |
| COUNTERWEIGHT    | B-3202H-4          | PCP:COUNTERWEIGHT              | 1               | Blade          | Blade Component          |
| DE-ICE KIT PR    | 7931-65-115        | IDS ITEM - DE-ICE KIT          | 1               | Prop           | IDS ITEM - DE-ICE KIT    |
| MTG BOLT/STUD    | A-2429-3           | STUD, MOUNTING, 1/2-20         | 6               | Prop           |                          |
| OVERHAUL KIT     | BHC-C2YF-2CKUF     | O/H KIT                        | 1               | Prop           | For aftermarket use only |

# HARTZELL

## APPLICATION GUIDE 159

**PZL MIELEC**

**IDS No.:** 1313      **Rev.:** 1      **IC Date:** 07/07/2015

**Model:** M20 (Piper PA-34-220T) (right side)  
**Trade Name:** MEWA  
**Aircraft T.C./STC:** Unknown  
**Propeller Model:** BHC-C2YF-2CLKUF  
**Propeller T.C.:** P-920

**Modifier:**  
**Engine Model:** LTSIO-360-KB  
**Power:** 220 HP @ 2800 RPM  
**Placard/Restr:** Avoid continuous operation between 2000 and 2200 RPM with engine manifold pressure above 32" Hg. Avoid continuous ground operation in cross and tail winds over 10 knots between 1700 and 2100 RPM.

**Blade Model(s):** FJC8459-8R  
 FJC8459B-8R  
**Prop Diameter:** 76.0" TO 75.0"

**Notes:** A/C Type Certificate A7SO for Piper PA-34-220T, Seneca III same as Pezetel M20 MEWA. Also known as Transport Equipment manufacturing Center WSK PZL Mielec.

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.6 +- 0.2  
**Stud Protrusion** 1.120 +-0.030

**Startlock Angle:** 18.1 +-1.5  
**Feather/High Angle:** 80.75 +-0.75  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>             | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|--------------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | C2F00291           | BHC-C2YF-2CLKUF/FJC8459-8R/SM4 | 1               | A/C            |                          |
| PROPELLER        | C2F00299           | BHC-C2YF-2CLKUF/FJC8459B-8R/S4 | 1               | A/C            |                          |
| BLADE            | FJC8459-8R         | PCP:BLADE UNIT, ALUMINUM       | 2               | Prop           |                          |
| BLADE            | FJC8459B-8R        | PCP:BLADE UNIT, 4H1214-10      | 2               | Prop           |                          |
| SPINNER          | C-2285-2L          | SPINNER ASSEMBLY               | 1               | Prop           |                          |
| SPINNER          | C-2285-2LP         | SPINNER ASSEMBLY               | 1               | Prop           |                          |
| GOVERNOR         | E3-7L              | GOVERNOR ASSEMBLY, E-3-( )     | 1               | A/C            |                          |
| GOVERNOR         | E8-7L              | GOVERNOR ASSEMBLY, E-8 (L)-( ) | 1               | A/C            | Synchrophasing           |
| SPIN MTG KIT     | A-2476-4           | SPINNER - MTG KIT              | 1               | Prop           |                          |
| COUNTERWEIGHT    | B-3202H-4          | PCP:COUNTERWEIGHT              | 1               | Blade          | Blade Component          |
| DE-ICER          | 4H1214-10          | DE-ICE BOOT                    | 1               | Blade          |                          |
| DE-ICE KIT PR    | 7931-65-115        | IDS ITEM - DE-ICE KIT          | 1               | Prop           |                          |
| MTG BOLT/STUD    | A-2429-3           | STUD, MOUNTING, 1/2-20         | 6               | Prop           |                          |
| OVERHAUL KIT     | BHC-C2YF-2CLKUF    | O/H KIT                        | 1               | Prop           | For aftermarket use only |

# HARTZELL

## APPLICATION GUIDE 159

PZL MIELEC

IDS No.: 1250 Rev.: 1 IC Date: 07/15/2015

**Model:** M26  
**Trade Name:** ISKIERKA  
**Aircraft T.C./STC:** Unknown  
**Propeller Model:** HC-C3YR-4BF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** FC8468-10R\*1  
FC8468-8R\*1  
**Prop Diameter:** 78" to 76"

**Modifier:**  
**Engine Model:** AEIO-540-L1B5D  
**Power:** 300 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.2 +/-0.1  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 31.0 +/-1.0  
**Cwt Angle:**

### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>             | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|--------------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | C3R00226           | HC-C3YR-4BF/FC8468-8R[*1]/SM9  | 1               | A/C            |                          |
| PROPELLER        | C3R00227           | HC-C3YR-4BF/FC8468-10R[*1]/SM9 | 1               | A/C            |                          |
| BLADE            | FC8468-10R*1       | PCP:BLADE UNIT, B-3202H-6 CWT  | 3               | Prop           |                          |
| BLADE            | FC8468-8R*1        | PCP:BLADE UNIT, ALUM B-3202H-6 | 3               | Prop           |                          |
| SPINNER          | D-5205             | SPINNER ASSEMBLY               | 1               | Prop           |                          |
| SPINNER          | D-5205-P           | SPINNER ASSEMBLY               | 1               | Prop           |                          |
| GOVERNOR         | F6-66              | GOVERNOR ASSEMBLY, F-6-( )     | 1               | Prop           |                          |
| GOVERNOR         | F6-66Z             | IDS Item                       | 1               | Prop           |                          |
| SPIN MTG KIT     | A-2476-9           | SPINNER - MTG KIT              | 1               | Prop           |                          |
| COUNTERWEIGHT    | B-3202H-6          | PCP:COUNTERWEIGHT              | 1               | Blade          | Blade Component          |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20         | 6               | Prop           |                          |
| OVERHAUL KIT     | HC-C3YR-4BF-OH     | O/H KIT                        | 1               | Prop           | For aftermarket use only |

# HARTZELL

## APPLICATION GUIDE 159

**PZL WARSZAWA-OKECIE**

**Model:** PZL-104M  
**Trade Name:** WILGA 2000  
**Aircraft T.C./STC:** A55EU  
**Propeller Model:** HC-C3YR-1RF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** F8468A-6R  
**Prop Diameter:** 80" TO 76"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.9 +-0.2  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number    | Description                  | Quantity | Qty Per | Comments                 |
|---------------|----------------|------------------------------|----------|---------|--------------------------|
| PROPELLER     | C3R00070       | HC-C3YR-1RF/F8468A-6R        | 1        | A/C     |                          |
| BLADE         | F8468A-6R      | PCP:BLADE UNIT, ALUM [1,1,1] | 3        | Prop    |                          |
| SPINNER       | 835-36P        | SPINNER ASSEMBLY             | 1        | Prop    |                          |
| GOVERNOR      | V5-4           | GOVERNOR ASSEMBLY, V-5-()    | 1        | A/C     |                          |
| MTG BOLT/STUD | A-2067         | STUD, MOUNTING, 1/2-20       | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-C3YR-1RF-OH | O/H KIT                      | 1        | Prop    | For aftermarket use only |

**IDS No.:** 1314      **Rev.:** 1      **IC Date:** 07/16/2015

**Modifier:**  
**Engine Model:** IO-540-K1(B,D)5, K1J5D  
**Power:** 300 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 31.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

**PZL WARSZAWA-OKECIE**

**Model:** PZL-104M  
**Trade Name:** WILGA 2000  
**Aircraft T.C./STC:** A55EU  
**Propeller Model:** HC-C3YR-1RF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** F8068  
**Prop Diameter:** 82.0" Max

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.7 +-0.2  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number    | Description                  | Quantity | Qty Per | Comments                 |
|---------------|----------------|------------------------------|----------|---------|--------------------------|
| PROPELLER     | C3R00059       | HC-C3YR-1RF/F8068/SM9        | 1        | A/C     |                          |
| BLADE         | F8068          | PCP:BLADE UNIT, ALUM [1,1,5] | 3        | Prop    |                          |
| SPINNER       | C-3535-1P      | SPINNER ASSEMBLY             | 1        | Prop    |                          |
| GOVERNOR      | V5-4           | GOVERNOR ASSEMBLY, V-5-()    | 1        | A/C     |                          |
| SPIN MTG KIT  | A-2476-9       | SPINNER - MTG KIT            | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2067         | STUD, MOUNTING, 1/2-20       | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-C3YR-1RF-OH | O/H KIT                      | 1        | Prop    | For aftermarket use only |

**IDS No.:** 1806      **Rev.:** 1      **IC Date:** 07/16/2015

**Modifier:**  
**Engine Model:** IO-540-K1(B,D)5, K1J5D  
**Power:** 300 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:** Optional propeller as installed per EADS  
PZL Service Bulletin No. 104M03037

**Startlock Angle:** NA  
**Feather/High Angle:** 31.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

# HARTZELL

## APPLICATION GUIDE

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PZL WARSZAWA-OKECIE

IDS No.: 2462 Rev.: 2 IC Date: 10/01/2015

**Model:** PZL-104MA  
**Trade Name:** WILGA 2000  
**Aircraft T.C./STC:** A55EU  
**Propeller Model:** HC-E3YR-1RF  
**Propeller T.C.:** P33EA  
**Blade Model(s):** F8068+2  
**Prop Diameter:** 84" - 80"

**Modifier:**  
**Engine Model:** IO-540-K1B5, IO-540-K1D5  
**Power:** 290 HP @ 2575 RPM  
**Placard/Restr:**

**Notes:** Serial number eligibility 000050019, 00050021 and up.

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.2 +-0.2  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 31.0 +-1.0  
**Cwt Angle:**

### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>           | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|------------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | E3R00005           | HC-E3YR-1RF/F8068+2/SM9      | 1               | A/C            |                          |
| BLADE            | F8068+2            | PCP:BLADE UNIT, ALUM [1,1,5] | 3               | Prop           |                          |
| SPINNER          | C-3535-1P          | SPINNER ASSEMBLY             | 1               | Prop           |                          |
| GOVERNOR         | V5-4               | GOVERNOR ASSEMBLY, V-5-( )   | 1               | A/C            |                          |
| SPIN MTG KIT     | A-2476-9           | SPINNER - MTG KIT            | 1               | Prop           |                          |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20       | 6               | Prop           |                          |
| OVERHAUL KIT     | HC-E3YR-1RF-OH     | O/H KIT                      | 1               | Prop           | For aftermarket use only |



# HARTZELL

## APPLICATION GUIDE

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Quest Aircraft, LLC

IDS No.: 3060 Rev.: 6 IC Date: 09/03/2019

**Model:** Kodiak  
**Trade Name:**  
**Aircraft T.C./STC:** SA02991CH  
**Propeller Model:** HC-B3TN-3D(Y)  
**Propeller T.C.:** P15EA  
**Blade Model(s):** T10282NS  
**Prop Diameter:** 102.0" to 100.0"

**Modifier:** Wipaire  
**Engine Model:** PT6A-35  
**Power:** 750 HP @ 2190 RPM  
**Placard/Restr:**  
**Notes:**

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** -15.0 +/- 0.5  
**Low Pitch Angle:** 17.0 +/- 0.1

**Startlock Angle:** 1.0 +/- 1.0  
**Feather/High Angle:** 87.0 +/- 1.0  
**Cwt Angle:** -1.5 to Positive

**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| Item Type                  | Item Number     | Description                       | Quantity | Qty Per | Comments                 |
|----------------------------|-----------------|-----------------------------------|----------|---------|--------------------------|
| PROPELLER                  | B3N10485S       | HC-B3TN-3D/T10282NS/C-3065-1P     | 1        | A/C     |                          |
| PROPELLER                  | B3N10485SKD     | HC-B3TN-3D/T10282NS/C-3065-1P     | 1        | A/C     |                          |
| PROPELLER                  | B3N10625S       | HC-B3TN-3DY/T10282NS/C-3065-1P    | 1        | A/C     |                          |
| PROPELLER                  | B3N10625SKD     | HC-B3TN-3DY/T10282NS/C-3065-1P    | 1        | A/C     |                          |
| BLADE                      | T10282NS        | PCP:BLADE UNIT, ALUMINUM          | 3        | Prop    |                          |
| SPINNER                    | C-3065-1        | SPINNER ASSEMBLY                  | 1        | Prop    |                          |
| SPINNER                    | C-3065-1P       | SPINNER ASSEMBLY                  | 1        | Prop    |                          |
| SPIN MTG KIT               | B-3384-4H       | BOLT, 1/4-28, HEX HEAD            | 6        | Prop    |                          |
| SPIN MTG KIT               | B-3808-4        | NUT,HEX,SELF-LOCKING              | 12       | Prop    |                          |
| SPIN MTG KIT               | B-3851-0432     | WASHER                            | 24       | Prop    |                          |
| COUNTERWEIGHT SLUG A-3039  |                 | SLUG, COUNTERWEIGHT               | 1        | Blade   |                          |
| COUNTERWEIGHT SLUG A-890-6 |                 | PCP:SLUG, COUNTERWEIGHT           | 1        | Blade   | Primary                  |
| COUNTERWEIGHT SLUG A-890-8 |                 | PCP:SLUG, COUNTERWEIGHT           | 1        | Blade   | Alternate                |
| COUNTERWEIGHT SLUG A-890-9 |                 | PCP:SLUG, COUNTERWEIGHT           | 1        | Blade   | Alternate                |
| MTG BOLT/STUD              | B-3339          | BOLT, MOUNTING, 9/16-18, 12 POINT | 8        | Prop    |                          |
| MISC ACCES                 | A-4731          | BLOCK, BETA FEEDBACK- ASSEMBLY    | 2        | Prop    |                          |
| MISC ACCES                 | B-3384-21H      | BOLT, 1/4-28, HEX HEAD            | 2        | Blade   |                          |
| MISC ACCES                 | B-3851-0432     | WASHER                            | 2        | Blade   | Optional                 |
| MISC ACCES                 | B-3851-0463     | WASHER                            | 2        | Blade   | Optional                 |
| OVERHAUL KIT               | HC-B3TN-3D-OH   | O/H KIT                           | 1        | Prop    |                          |
| OVERHAUL KIT               | HC-B3TN-3DY-OH2 | O/H KIT, A-4731 CARBON BLOCK      | 1        | Prop    | For aftermarket use only |

# HARTZELL

## APPLICATION GUIDE 159

QUEST AIRCRAFT, LLC

IDS No.: 2634 Rev.: 4 D Date: 01/02/2014

Model: 100  
Trade Name: KODIAK  
Aircraft T.C./STC: A00007SE  
Propeller Model: HC-E4N-3PY  
Propeller T.C.: P10NE

Modifier:  
Engine Model: PT6A-34  
Power: 750 HP @ 2200 RPM  
Placard/Restr: Stabilized ground operation is prohibited between 450 and 1050 RPM. The propeller may be operated when feathered at or below 450 RPM.

Blade Model(s): D9511FSB  
Prop Diameter: 96"

Notes: De-ice boot installed per customer request.

### Prop Setup:

Ref. Radius: 30  
Reverse Angle: -10.0 +-0.5  
Low Pitch Angle: 17.5 +-0.1  
Stud Protrusion

Startlock Angle: 1.4 +-0.2  
Feather/High Angle: 86.1 +-0.5  
Cwt Angle:

### Non-HPI Items:

Non-HPI Spinner:

Non-HPI Governor:

### Hartzell Approved Items:

| Item Type     | Item Number | Description                    | Quantity | Qty Per | Comments  |
|---------------|-------------|--------------------------------|----------|---------|---|
| PROPELLER     | E4N00800S   | HC-E4N-3PY/D9511FSB/D-630-6P   | 1        | A/C     |   |
| PROPELLER     | E4N00802S   | HC-E4N-3PY/D9511FSB/630-6P/KIT | 1        | A/C     |   |
| PROPELLER     | E4N00803S   | HC-E4N-3PY/D9511FSB/D-630-8P   | 1        | A/C     |   |
| PROPELLER     | E4N00804S   | HC-E4N-3PY/D9511FSB/630-8P/KIT | 1        | A/C     |   |
| PROPELLER     | E4N00805S   | HC-E4N-3PY/D9511FSB/D-630-10P  | 1        | A/C     |   |
| BLADE         | D9511FSB    | PCP:BLADE UNIT, ALUMINUM       | 4        | Prop    |   |
| SPINNER       | D-630-10    | SPINNER ASSEMBLY               | 1        | Prop    |   |
| SPINNER       | D-630-10P   | SPINNER ASSEMBLY               | 1        | Prop    |   |
| SPINNER       | D-630-6     | SPINNER ASSEMBLY               | 1        | Prop    |   |
| SPINNER       | D-630-6P    | SPINNER ASSEMBLY               | 1        | Prop    |   |
| SPINNER       | D-630-8     | SPINNER ASSEMBLY               | 1        | Prop    |   |
| SPINNER       | D-630-8P    | SPINNER ASSEMBLY               | 1        | Prop    |   |
| SPIN MTG KIT  | B-3384-2H   | BOLT, 1/4-28, HEX HEAD         | 8        | Prop    |   |
| SPIN MTG KIT  | B-3851-0463 | WASHER                         | 8        | Prop    |   |
| COUNTERWEIGHT | C-472-1     | PCP:COUNTERWEIGHT              | 1        | Blade   |   |
| DE-ICER       | C-2131-13   | BOOT, ANTI-ICING               | 1        | Blade   |   |
| DE-ICE KIT PR | 103726      | ANTI-ICE KIT (ONE PROP)        | 1        | Prop    | Superseded by 105395, Reference 103721 Installation Drawing           |
| DE-ICE KIT PR | 105395      | ANTI-ICE KIT (ONE PROP)        | 1        | Prop    | Supersedes 103726 Anti-Ice Kit, Reference 105396 Installation Drawing |
| MTG BOLT/STUD | B-3339-1    | BOLT,MOUNTING,9/16-18,12 POINT | 8        | Prop    |   |
| MISC ACCES    | A-3044      | BLOCK, BETA FEEDBACK- ASSEMBLY | 1        | Prop    |   |

# HARTZELL

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QUEST AIRCRAFT, LLC

IDS No.: 2607 Rev.: 5 IC Date: 06/09/2020

Model: 100  
Trade Name: KODIAK  
Aircraft T.C./STC: A00007SE  
Propeller Model: HC-E4N-3P  
Propeller T.C.: P10NE

Modifier:  
Engine Model: PT6A-34  
Power: 750 HP @ 2200 RPM  
Placard/Restr: Stabilized ground operation is prohibited between 450 and 1050 RPM. The propeller may be operated when feathered at or below 450 RPM.

Blade Model(s): D9511FSB  
Prop Diameter: 96"

Notes: De-ice boot installed per customer request.

**Prop Setup:**

Ref. Radius: 30  
Reverse Angle: -10.0 +0.5  
Low Pitch Angle: 17.5 +0.1  
Stud Protrusion

Startlock Angle: NA  
Feather/High Angle: 86.1 +0.5  
Cwt Angle:

**Non-HPI Items:**

Non-HPI Spinner:

Non-HPI Governor:

**Hartzell Approved Items:**

| Item Type     | Item Number | Description                       | Quantity | Qty Per | Comments  |
|---------------|-------------|-----------------------------------|----------|---------|---|
| PROPELLER     | E4N00159S   | HC-E4N-3P/D9511FSB/D-630-10P      | 1        | A/C     |   |
| PROPELLER     | E4N00162S   | HC-E4N-3P/D9511FSB/D-630-8P/KIT   | 1        | A/C     |   |
| PROPELLER     | E4N00162SKD | HC-E4N-3P/D9511FSB/D-630-8P/KIT   | 1        | A/C     |   |
| PROPELLER     | E4N00163S   | HC-E4N-3P/D9511FSB/D-630-8P       | 1        | A/C     |   |
| PROPELLER     | E4N00166S   | HC-E4N-3P/D9511FSB/D-630-6P/KIT   | 1        | A/C     |   |
| PROPELLER     | E4N00167S   | HC-E4N-3P/D9511FSB/D-630-6P       | 1        | A/C     |   |
| BLADE         | D9511FSB    | PCP:BLADE UNIT, ALUMINUM          | 4        | Prop    |   |
| SPINNER       | D-630-10    | SPINNER ASSEMBLY                  | 1        | Prop    |   |
| SPINNER       | D-630-10P   | SPINNER ASSEMBLY                  | 1        | Prop    |   |
| SPINNER       | D-630-6     | SPINNER ASSEMBLY                  | 1        | Prop    |   |
| SPINNER       | D-630-6P    | SPINNER ASSEMBLY                  | 1        | Prop    |   |
| SPINNER       | D-630-8     | SPINNER ASSEMBLY                  | 1        | Prop    |   |
| SPINNER       | D-630-8P    | SPINNER ASSEMBLY                  | 1        | Prop    |   |
| SPIN MTG KIT  | B-3384-2H   | BOLT, 1/4-28, HEX HEAD            | 8        | Prop    |   |
| SPIN MTG KIT  | B-3851-0463 | WASHER                            | 8        | Prop    |   |
| COUNTERWEIGHT | C-472-1     | PCP:COUNTERWEIGHT                 | 1        | Blade   |   |
| DE-ICER       | C-2131-13   | BOOT, ANTI-ICING                  | 1        | Blade   |   |
| DE-ICE KIT PR | 103726      | ANTI-ICE KIT (ONE PROP)           | 1        | Prop    | Superseded by 105395, Reference 103721 Installation Drawing           |
| DE-ICE KIT PR | 105395      | ANTI-ICE KIT (ONE PROP)           | 1        | Prop    | Supersedes 103726 Anti-Ice Kit, Reference 105396 Installation Drawing |
| MTG BOLT/STUD | B-3339-1    | BOLT, MOUNTING, 9/16-18, 12 POINT | 8        | Prop    |   |
| MISC ACCES    | A-3044      | BLOCK, BETA FEEDBACK- ASSEMBLY    | 1        | Prop    |   |

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# HARTZELL

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### RAVIN AIRCRAFT

**Model:** RAVIN  
**Trade Name:**  
**Aircraft T.C./STC:** Experimental  
**Propeller Model:** HC-C3YR-1RF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** F7590\*1  
**Prop Diameter:** 77.0" TO 76.0"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.8 +-0.2  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number    | Description                  | Quantity | Qty Per | Comments                 |
|---------------|----------------|------------------------------|----------|---------|--------------------------|
| PROPELLER     | C3R00970       | HC-C3YR-1RF/F7590[*1]/SM7    | 1        | A/C     |                          |
| PROPELLER     | C3R00970KD     | HC-C3YR-1RF/F7590[*1]/SM7    | 1        | A/C     |                          |
| BLADE         | F7590*1        | PCP:BLADE UNIT, ALUM [3,1,5] | 3        | Prop    |                          |
| SPINNER       | A-2295-1P      | SPINNER ASSEMBLY             | 1        | A/C     |                          |
| SPIN MTG KIT  | A-2476-7       | SPINNER - MTG KIT            | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2067         | STUD, MOUNTING, 1/2-20       | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-C3YR-1RF-OH | O/H KIT                      | 1        | Prop    | For aftermarket use only |

**IDS No.:** 2488      **Rev.:** 1      **IC Date:** 07/16/2015

**Modifier:**  
**Engine Model:** IO-540-D4A5, E4A5  
**Power:** 260 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 30.5 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

### RAYTHEON

**Model:** J35, K35, M35, N35, P35, G33  
**Trade Name:** BONANZA  
**Aircraft T.C./STC:** SA02363CH  
**Propeller Model:** PHC-L3YF-1RF  
**Propeller T.C.:** P41EA  
**Blade Model(s):** F8468A-6R  
**Prop Diameter:** 80

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 11.5 +-0.1  
**Stud Protrusion** 1.450 +-0.030

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number     | Description                  | Quantity | Qty Per | Comments                 |
|---------------|-----------------|------------------------------|----------|---------|--------------------------|
| PROPELLER     | L3F00020        | PHC-L3YF-1RF/F8468A-6R/SM7   | 0        |         |                          |
| PROPELLER     | L3F00020KD      | PHC-L3YF-1RF/F8468A-6R/SM7   | 0        |         |                          |
| BLADE         | F8468A-6R       | PCP:BLADE UNIT, ALUM [1,1,1] | 3        | Prop    |                          |
| SPINNER       | A-2295-1        | SPINNER ASSEMBLY             | 1        | A/C     |                          |
| SPINNER       | A-2295-1P       | SPINNER ASSEMBLY             | 1        | A/C     |                          |
| SPIN MTG KIT  | A-2476-7        | SPINNER - MTG KIT            | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2429-4        | STUD, MOUNTING, 1/2-20       | 6        | Prop    |                          |
| OVERHAUL KIT  | PHC-L3YF-1RF-OH | O/H KIT                      | 1        | Prop    | For aftermarket use only |

**IDS No.:** 2739      **Rev.:** 1      **IC Date:** 07/16/2015

**Modifier:** CHECK NEY ENTERPRISES  
**Engine Model:** IO-470-C, -N  
**Power:** 260 HP @ 2625 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:**  
**Feather/High Angle:** 33.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

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RAYTHEON

**Model:** J35, K35, M35, N35, P35, G33  
**Trade Name:** BONANZA  
**Aircraft T.C./STC:** SA02363CH  
**Propeller Model:** PHC-L3YF-1RF  
**Propeller T.C.:** P41EA  
**Blade Model(s):** F8068  
**Prop Diameter:** 82"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.3 +-0.2  
**Stud Protrusion** 1.450 +-0.030

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 2756      **Rev.:** 1      **IC Date:** 07/16/2015

**Modifier:** CHUCK NEY ENTERPRISE  
**Engine Model:** IO-470-N-MOD  
**Power:** 260 HP @ 2625 RPM  
**Placard/Restr:**

**Notes:** Engine is modified per STC SE02261CH

**Startlock Angle:** NA  
**Feather/High Angle:** 36.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:** WOODWARD

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>           | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|------------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | L3F00030           | PHC-L3YF-1RF/F8068/SM7       | 0               |                |                          |
| PROPELLER        | L3F00030KD         | PHC-L3YF-1RF/F8068/SM7       | 0               |                |                          |
| BLADE            | F8068              | PCP:BLADE UNIT, ALUM [1,1,5] | 3               | Prop           |                          |
| SPINNER          | A-2295-1P          | SPINNER ASSEMBLY             | 1               | Prop           |                          |
| SPIN MTG KIT     | A-2476-7           | SPINNER - MTG KIT            | 1               | Prop           |                          |
| MTG BOLT/STUD    | A-2429-4           | STUD, MOUNTING, 1/2-20       | 6               | Prop           |                          |
| OVERHAUL KIT     | PHC-L3YF-1RF-OH    | O/H KIT                      | 1               | Prop           | For aftermarket use only |

RAYTHEON AIRCRAFT CO.

**Model:** see BEECH  
**Trade Name:**  
**Aircraft T.C./STC:**  
**Propeller Model:**  
**Propeller T.C.:**  
**Blade Model(s):**  
**Prop Diameter:**

### Prop Setup:

**Ref. Radius:**  
**Reverse Angle:**  
**Low Pitch Angle:**  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

### Hartzell Approved Items:

**IDS No.:** 1494      **Rev.:** -      **DM Date:** 10/01/1992

**Modifier:**  
**Engine Model:**  
**Power:** HP @ RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:**  
**Feather/High Angle:**  
**Cwt Angle:**

**Non-HPI Governor:**

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RAYTHEON AIRCRAFT CO.

IDS No.: 152      Rev.: 3      IC Date: 01/27/2020

**Model:** D18C, S  
**Trade Name:** TWIN BEECH

**Modifier:** CAMERON & STAHL(dbA AEROSPACE PROD)

**Aircraft T.C./STC:** STC-SA2204WE

**Engine Model:** TPE331-25B

**Propeller Model:** HC-B3TN-5C

**Power:** 575 HP @ 2000 RPM

**Propeller T.C.:** P15EA

**Placard/Restr:**

**Blade Model(s):** T10178-6  
T10178N-6

**Notes:**

**Prop Diameter:** 95.5"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** -10.5 +-0.5  
**Low Pitch Angle:** NA

**Startlock Angle:** NA  
**Feather/High Angle:** 87.0 +-1.0

**Stud Protrusion**

**Cwt Angle:** Positive

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u>               | <u>Item Number</u> | <u>Description</u>                | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|--------------------------------|--------------------|-----------------------------------|-----------------|----------------|-----------------|
| BLADE                          | T10178-6           | IDS*ITEM, BLADE                   | 3               | Prop           |                 |
| BLADE                          | T10178N-6          | IDS ITEM, BLADE                   | 3               | Prop           |                 |
| SPINNER                        | C-3043-2           | SPINNER ASSEMBLY                  | 1               | Prop           |                 |
| COUNTERWEIGHT SLUG A-3039      |                    | SLUG, COUNTERWEIGHT               | 1               | Blade          |                 |
| COUNTERWEIGHT SLUG A-890-6     |                    | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          | Primary         |
| COUNTERWEIGHT SLUG A-890-8     |                    | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          | Alternate       |
| COUNTERWEIGHT SLUG A-890-9     |                    | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          | Alternate       |
| COUNTERWEIGHT SLUG B-3384-21H  |                    | BOLT, 1/4-28, HEX HEAD            | 2               | Blade          |                 |
| COUNTERWEIGHT SLUG B-3851-0432 |                    | WASHER                            | 2               | Blade          | Optional        |
| COUNTERWEIGHT SLUG B-3851-0463 |                    | WASHER                            | 2               | Blade          | Optional        |
| MTG BOLT/STUD                  | B-3339             | BOLT, MOUNTING, 9/16-18, 12 POINT | 8               | Prop           |                 |

# HARTZELL

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RAYTHEON AIRCRAFT CO.

**Model:** D18C, S  
**Trade Name:** TWIN BEECH  
**Aircraft T.C./STC:** STC-SA2204WE  
**Propeller Model:** HC-B3TN-5C  
**Propeller T.C.:** P15EA  
**Blade Model(s):** T10176-8  
 T10176N-8  
**Prop Diameter:** 93.5"

**IDS No.:** 154      **Rev.:** 2      **IC Date:** 01/27/2020  
**Modifier:** CAMERON & STAHL(dbA AEROSPACE PROD)  
**Engine Model:** TPE331-25B  
**Power:** 575 HP @ 2000 RPM  
**Placard/Restr:**  
**Notes:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** -10.0 +-0.5  
**Low Pitch Angle:** NA  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 87.0 +-1.0  
**Cwt Angle:** Positive

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u>               | <u>Item Number</u> | <u>Description</u>                | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|--------------------------------|--------------------|-----------------------------------|-----------------|----------------|-----------------|
| BLADE                          | T10176-8           | IDS*ITEM, BLADE                   | 3               | Prop           |                 |
| BLADE                          | T10176N-8          | IDS ITEM, BLADE                   | 3               | Prop           |                 |
| SPINNER                        | C-3043-2           | SPINNER ASSEMBLY                  | 1               | Prop           |                 |
| COUNTERWEIGHT SLUG A-3039      |                    | SLUG, COUNTERWEIGHT               | 1               | Blade          |                 |
| COUNTERWEIGHT SLUG A-890-8     |                    | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          |                 |
| COUNTERWEIGHT SLUG B-3384-18H  |                    | BOLT, 1/4-28, HEX HEAD            | 2               | Blade          |                 |
| COUNTERWEIGHT SLUG B-3851-0432 |                    | WASHER                            | 2               | Blade          | Optional        |
| COUNTERWEIGHT SLUG B-3851-0463 |                    | WASHER                            | 2               | Blade          | Optional        |
| MTG BOLT/STUD                  | B-3339             | BOLT, MOUNTING, 9/16-18, 12 POINT | 8               | Prop           |                 |



# HARTZELL

RAYTHEON AIRCRAFT CO.

**Model:** E18S-9700  
**Trade Name:** TWIN BEECH  
  
**Aircraft T.C./STC:** STC-SA2204WE  
**Propeller Model:** HC-B3TN-5C  
**Propeller T.C.:** P15EA  
**Blade Model(s):**  
**Prop Diameter:** 95.5"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** -10.0 +-0.5  
**Low Pitch Angle:** NA  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

### Hartzell Approved Items:

| <u>Item Type</u>               | <u>Item Number</u> | <u>Description</u>                | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|--------------------------------|--------------------|-----------------------------------|-----------------|----------------|-----------------|
| COUNTERWEIGHT SLUG A-3039      |                    | SLUG, COUNTERWEIGHT               | 1               | Blade          |                 |
| COUNTERWEIGHT SLUG A-890-6     |                    | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          | Primary         |
| COUNTERWEIGHT SLUG A-890-8     |                    | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          | Alternate       |
| COUNTERWEIGHT SLUG A-890-9     |                    | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          | Alternate       |
| COUNTERWEIGHT SLUG B-3384-21H  |                    | BOLT, 1/4-28, HEX HEAD            | 2               | Blade          |                 |
| COUNTERWEIGHT SLUG B-3851-0432 |                    | WASHER                            | 2               | Blade          | Optional        |
| COUNTERWEIGHT SLUG B-3851-0463 |                    | WASHER                            | 2               | Blade          | Optional        |
| MTG BOLT/STUD                  | B-3339             | BOLT, MOUNTING, 9/16-18, 12 POINT | 8               | Prop           |                 |

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**IDS No.:** 157      **Rev.:** 2      **IC**      **Date:** 01/27/2020

**Modifier:** CAMERON & STAHL(dba AEROSPACE PROD)

**Engine Model:** TPE331-25B

**Power:** 575 HP @ 2000 RPM

**Placard/Restr:**

**Notes:**

**Startlock Angle:** NA

**Feather/High Angle:** 87.0 +-1.0

**Cwt Angle:** Positive

**Non-HPI Governor:**

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RAYTHEON AIRCRAFT CO.

**Model:** E18S-9700  
**Trade Name:** TWIN BEECH  
**Aircraft T.C./STC:** STC-SA2204WE  
**Propeller Model:** HC-B3TN-5C  
**Propeller T.C.:** P15EA  
**Blade Model(s):** T10176-8  
 T10176N-8  
**Prop Diameter:** 93.5"

**IDS No.:** 156      **Rev.:** 2      **IC Date:** 01/27/2020  
**Modifier:** CAMERON & STAHL(dba AEROSPACE PROD)  
**Engine Model:** TPE331-25B  
**Power:** 575 HP @ 2000 RPM  
**Placard/Restr:**  
**Notes:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** -10.0 +-0.5  
**Low Pitch Angle:** NA  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 87.0 +-1.0  
**Cwt Angle:** Positive

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u>               | <u>Item Number</u> | <u>Description</u>                | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|--------------------------------|--------------------|-----------------------------------|-----------------|----------------|-----------------|
| BLADE                          | T10176-8           | IDS*ITEM, BLADE                   | 3               | Prop           |                 |
| BLADE                          | T10176N-8          | IDS ITEM, BLADE                   | 3               | Prop           |                 |
| SPINNER                        | C-3043-2           | SPINNER ASSEMBLY                  | 1               | Prop           |                 |
| COUNTERWEIGHT SLUG A-3039      |                    | SLUG, COUNTERWEIGHT               | 1               | Blade          |                 |
| COUNTERWEIGHT SLUG A-890-8     |                    | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          |                 |
| COUNTERWEIGHT SLUG B-3384-18H  |                    | BOLT, 1/4-28, HEX HEAD            | 2               | Blade          |                 |
| COUNTERWEIGHT SLUG B-3851-0432 |                    | WASHER                            | 2               | Blade          | Optional        |
| COUNTERWEIGHT SLUG B-3851-0463 |                    | WASHER                            | 2               | Blade          | Optional        |
| MTG BOLT/STUD                  | B-3339             | BOLT, MOUNTING, 9/16-18, 12 POINT | 8               | Prop           |                 |

# HARTZELL

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RAYTHEON AIRCRAFT CO.

**Model:** TURBO 18  
**Trade Name:** TWIN BEECH

**Aircraft T.C./STC:** STC-SA2204WE

**Propeller Model:** HC-B3TN-5C

**Propeller T.C.:** P15EA

**Blade Model(s):** T10178-6  
T10178N-6

**Prop Diameter:** 95.5"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** -10.0 +-0.5  
**Low Pitch Angle:** NA  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

**IDS No.:** 153      **Rev.:** 3      **IC Date:** 01/27/2020

**Modifier:** CAMERON & STAHL(dba AEROSPACE PROD)

**Engine Model:** TPE331-25B

**Power:** 575 HP @ 2000 RPM

**Placard/Restr:**

**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 86.0 +-2.0  
**Cwt Angle:** Positive

**Non-HPI Governor:**

| <u>Item Type</u>               | <u>Item Number</u> | <u>Description</u>                | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|--------------------------------|--------------------|-----------------------------------|-----------------|----------------|-----------------|
| BLADE                          | T10178-6           | IDS*ITEM, BLADE                   | 3               | Prop           |                 |
| BLADE                          | T10178N-6          | IDS ITEM, BLADE                   | 3               | Prop           |                 |
| SPINNER                        | C-3043-2           | SPINNER ASSEMBLY                  | 1               | Prop           |                 |
| COUNTERWEIGHT SLUG A-3039      |                    | SLUG, COUNTERWEIGHT               | 1               | Blade          |                 |
| COUNTERWEIGHT SLUG A-890-6     |                    | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          | Primary         |
| COUNTERWEIGHT SLUG A-890-8     |                    | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          | Alternate       |
| COUNTERWEIGHT SLUG A-890-9     |                    | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          | Alternate       |
| COUNTERWEIGHT SLUG B-3384-21H  |                    | BOLT, 1/4-28, HEX HEAD            | 2               | Blade          |                 |
| COUNTERWEIGHT SLUG B-3851-0432 |                    | WASHER                            | 2               | Blade          | Optional        |
| COUNTERWEIGHT SLUG B-3851-0463 |                    | WASHER                            | 2               | Blade          | Optional        |
| MTG BOLT/STUD                  | B-3339             | BOLT, MOUNTING, 9/16-18, 12 POINT | 8               | Prop           |                 |

# HARTZELL

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RAYTHEON AIRCRAFT CO.

**Model:** TURBO 18  
**Trade Name:** TWIN BEECH

**Aircraft T.C./STC:** STC-SA2204WE

**Propeller Model:** HC-B3TN-5C

**Propeller T.C.:** P15EA

**Blade Model(s):** T10176-8  
T10176N-8

**Prop Diameter:** 93.5"

**Prop Setup:**

**Ref. Radius:** 30

**Reverse Angle:** -10.0 +-0.5

**Low Pitch Angle:** NA

**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

**IDS No.:** 151      **Rev.:** 2      **IC Date:** 01/27/2020

**Modifier:** CAMERON & STAHL(dbA AEROSPACE PROD)

**Engine Model:** TPE331-25B

**Power:** 575 HP @ 2000 RPM

**Placard/Restr:**

**Notes:**

**Startlock Angle:** NA

**Feather/High Angle:** 87.0 +-1.0

**Cwt Angle:** Positive

**Non-HPI Governor:**

| <u>Item Type</u>               | <u>Item Number</u> | <u>Description</u>                | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|--------------------------------|--------------------|-----------------------------------|-----------------|----------------|-----------------|
| BLADE                          | T10176-8           | IDS*ITEM, BLADE                   | 3               | Prop           |                 |
| BLADE                          | T10176N-8          | IDS ITEM, BLADE                   | 3               | Prop           |                 |
| SPINNER                        | C-3043-2           | SPINNER ASSEMBLY                  | 1               | Prop           |                 |
| COUNTERWEIGHT SLUG A-3039      |                    | SLUG, COUNTERWEIGHT               | 1               | Blade          |                 |
| COUNTERWEIGHT SLUG A-890-8     |                    | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          |                 |
| COUNTERWEIGHT SLUG B-3384-18H  |                    | BOLT, 1/4-28, HEX HEAD            | 2               | Blade          |                 |
| COUNTERWEIGHT SLUG B-3851-0432 |                    | WASHER                            | 2               | Blade          | Optional        |
| COUNTERWEIGHT SLUG B-3851-0463 |                    | WASHER                            | 2               | Blade          | Optional        |
| MTG BOLT/STUD                  | B-3339             | BOLT, MOUNTING, 9/16-18, 12 POINT | 8               | Prop           |                 |

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RAYTHEON AIRCRAFT CO.

**Model:** C45G, H  
**Trade Name:** TWIN BEECH

**Aircraft T.C./STC:** STC-SA2204WE  
**Propeller Model:** HC-B3TN-5C  
**Propeller T.C.:** P15EA  
**Blade Model(s):** T10178-6  
T10178N-6

**Prop Diameter:** 95.5"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** -10.0 +-0.5  
**Low Pitch Angle:** NA  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

**IDS No.:** 150      **Rev.:** 3      **IC Date:** 01/27/2020

**Modifier:** CAMERON & STAHL(dba AEROSPACE PROD)

**Engine Model:** TPE331-25B

**Power:** 575 HP @ 2000 RPM

**Placard/Restr:**

**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 87.0 +-1.0  
**Cwt Angle:** Positive

**Non-HPI Governor:**

| <u>Item Type</u>               | <u>Item Number</u> | <u>Description</u>                | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|--------------------------------|--------------------|-----------------------------------|-----------------|----------------|-----------------|
| BLADE                          | T10178-6           | IDS*ITEM, BLADE                   | 3               | Prop           |                 |
| BLADE                          | T10178N-6          | IDS ITEM, BLADE                   | 3               | Prop           |                 |
| SPINNER                        | C-3043-2           | SPINNER ASSEMBLY                  | 1               | Prop           |                 |
| COUNTERWEIGHT SLUG A-3039      |                    | SLUG, COUNTERWEIGHT               | 1               | Blade          |                 |
| COUNTERWEIGHT SLUG A-890-6     |                    | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          | Primary         |
| COUNTERWEIGHT SLUG A-890-8     |                    | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          | Alternate       |
| COUNTERWEIGHT SLUG A-890-9     |                    | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          | Alternate       |
| COUNTERWEIGHT SLUG B-3384-21H  |                    | BOLT, 1/4-28, HEX HEAD            | 2               | Blade          |                 |
| COUNTERWEIGHT SLUG B-3851-0432 |                    | WASHER                            | 2               | Blade          | Optional        |
| COUNTERWEIGHT SLUG B-3851-0463 |                    | WASHER                            | 2               | Blade          | Optional        |
| MTG BOLT/STUD                  | B-3339             | BOLT, MOUNTING, 9/16-18, 12 POINT | 8               | Prop           |                 |

# HARTZELL

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RAYTHEON AIRCRAFT CO.

**Model:** TC45G, H, J,  
**Trade Name:** TWIN BEECH

**Aircraft T.C./STC:** STC-SA2204WE

**Propeller Model:** HC-B3TN-5C

**Propeller T.C.:** P15EA

**Blade Model(s):** T10178-6  
T10178N-6

**Prop Diameter:** 95.5"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** -10.0 +-0.5  
**Low Pitch Angle:** NA  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

### Hartzell Approved Items:

**IDS No.:** 155      **Rev.:** 4      **IC Date:** 01/27/2020

**Modifier:** CAMERON & STAHL(dba AEROSPACE PROD)

**Engine Model:** TPE331-25B

**Power:** 575 HP @ 2000 RPM

**Placard/Restr:**

**Notes:** Reference Manual 139 for Airworthiness Limitations.

**Startlock Angle:** NA

**Feather/High Angle:** 87.0 +-1.0

**Cwt Angle:** Positive

**Non-HPI Governor:**

| <u>Item Type</u>               | <u>Item Number</u> | <u>Description</u>                | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|--------------------------------|--------------------|-----------------------------------|-----------------|----------------|-----------------|
| BLADE                          | T10178-6           | IDS*ITEM, BLADE                   | 3               | Prop           |                 |
| BLADE                          | T10178N-6          | IDS ITEM, BLADE                   | 3               | Prop           |                 |
| SPINNER                        | C-3043-2           | SPINNER ASSEMBLY                  | 1               | Prop           |                 |
| COUNTERWEIGHT SLUG A-3039      |                    | SLUG, COUNTERWEIGHT               | 1               | Blade          |                 |
| COUNTERWEIGHT SLUG A-890-6     |                    | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          | Primary         |
| COUNTERWEIGHT SLUG A-890-8     |                    | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          | Alternate       |
| COUNTERWEIGHT SLUG A-890-9     |                    | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          | Alternate       |
| COUNTERWEIGHT SLUG B-3384-21H  |                    | BOLT, 1/4-28, HEX HEAD            | 2               | Blade          |                 |
| COUNTERWEIGHT SLUG B-3851-0432 |                    | WASHER                            | 2               | Blade          | Optional        |
| COUNTERWEIGHT SLUG B-3851-0463 |                    | WASHER                            | 2               | Blade          | Optional        |
| MTG BOLT/STUD                  | B-3339             | BOLT, MOUNTING, 9/16-18, 12 POINT | 8               | Prop           |                 |

# HARTZELL

## APPLICATION GUIDE

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RAYTHEON AIRCRAFT CO.

**Model:** C45G, H  
**Trade Name:** TWIN BEECH

**Aircraft T.C./STC:** STC-SA2204WE

**Propeller Model:** HC-B3TN-5C

**Propeller T.C.:** P15EA

**Blade Model(s):** T10176-8  
 T10176N-8

**Prop Diameter:** 93.5"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** -10.0 +-0.5  
**Low Pitch Angle:** NA  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

**IDS No.:** 149      **Rev.:** 2      **IC Date:** 01/27/2020

**Modifier:** CAMERON & STAHL(dba AEROSPACE PROD)

**Engine Model:** TPE331-25B

**Power:** 575 HP @ 2000 RPM

**Placard/Restr:**

**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 87.0 +-1.0  
**Cwt Angle:** Positive

**Non-HPI Governor:**

| <u>Item Type</u>               | <u>Item Number</u> | <u>Description</u>                | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|--------------------------------|--------------------|-----------------------------------|-----------------|----------------|-----------------|
| BLADE                          | T10176-8           | IDS*ITEM, BLADE                   | 3               | Prop           |                 |
| BLADE                          | T10176N-8          | IDS ITEM, BLADE                   | 3               | Prop           |                 |
| SPINNER                        | C-3043-2           | SPINNER ASSEMBLY                  | 1               | Prop           |                 |
| COUNTERWEIGHT SLUG A-3039      |                    | SLUG, COUNTERWEIGHT               | 1               | Blade          |                 |
| COUNTERWEIGHT SLUG A-890-8     |                    | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          |                 |
| COUNTERWEIGHT SLUG B-3384-18H  |                    | BOLT, 1/4-28, HEX HEAD            | 2               | Blade          |                 |
| COUNTERWEIGHT SLUG B-3851-0432 |                    | WASHER                            | 2               | Blade          | Optional        |
| COUNTERWEIGHT SLUG B-3851-0463 |                    | WASHER                            | 2               | Blade          | Optional        |
| MTG BOLT/STUD                  | B-3339             | BOLT, MOUNTING, 9/16-18, 12 POINT | 8               | Prop           |                 |

# HARTZELL

## APPLICATION GUIDE 159

RAYTHEON AIRCRAFT CO.

**Model:** TC45G, H, J,  
**Trade Name:** TWIN BEECH

**Aircraft T.C./STC:** STC-SA2204WE

**Propeller Model:** HC-B3TN-5C

**Propeller T.C.:** P15EA

**Blade Model(s):** T10176-8  
T10176N-8

**Prop Diameter:** 93.5"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** -10.0 +-0.5  
**Low Pitch Angle:** NA  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

**IDS No.:** 158      **Rev.:** 2      **IC Date:** 01/27/2020

**Modifier:** CAMERON & STAHL(dba AEROSPACE PROD)

**Engine Model:** TPE331-25B

**Power:** 575 HP @ 2000 RPM

**Placard/Restr:**

**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 87.0 +-1.0  
**Cwt Angle:** Positive

**Non-HPI Governor:**

| <u>Item Type</u>               | <u>Item Number</u> | <u>Description</u>                | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|--------------------------------|--------------------|-----------------------------------|-----------------|----------------|-----------------|
| BLADE                          | T10176-8           | IDS*ITEM, BLADE                   | 3               | Prop           |                 |
| BLADE                          | T10176N-8          | IDS ITEM, BLADE                   | 3               | Prop           |                 |
| SPINNER                        | C-3043-2           | SPINNER ASSEMBLY                  | 1               | Prop           |                 |
| COUNTERWEIGHT SLUG A-3039      |                    | SLUG, COUNTERWEIGHT               | 1               | Blade          |                 |
| COUNTERWEIGHT SLUG A-890-8     |                    | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          |                 |
| COUNTERWEIGHT SLUG B-3384-18H  |                    | BOLT, 1/4-28, HEX HEAD            | 2               | Blade          |                 |
| COUNTERWEIGHT SLUG B-3851-0432 |                    | WASHER                            | 2               | Blade          | Optional        |
| COUNTERWEIGHT SLUG B-3851-0463 |                    | WASHER                            | 2               | Blade          | Optional        |
| MTG BOLT/STUD                  | B-3339             | BOLT, MOUNTING, 9/16-18, 12 POINT | 8               | Prop           |                 |



# HARTZELL

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REBEL

**Model:** 300  
**Trade Name:**  
**Aircraft T.C./STC:** Experimental  
**Propeller Model:** HC-C3YR-1A  
**Propeller T.C.:** P25EA  
**Blade Model(s):** 7690C  
7690E  
**Prop Diameter:** 78" NO CUT OFF

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 10.7 +/-0.1  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 1330      **Rev.:** -      **DM Date:** 12/20/2004

**Modifier:**  
**Engine Model:** AEIO-540, IO-540-D4A5  
**Power:** 260 HP @ 2700 RPM  
**Placard/Restr:**

**Notes:** Governor requires A-3144-2 Governor Drive Extension and C-6059X Valve Assembly with B-1104 Gasket.

**Startlock Angle:** NA  
**Feather/High Angle:** 32.0 +/-1.0  
**Cwt Angle:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>           | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>            |
|------------------|--------------------|------------------------------|-----------------|----------------|----------------------------|
| BLADE            | 7690C              | BLADE ASSEMBLY, COMPOSITE    | 3               | Prop           | SUPERSEDED BY 7690E        |
| BLADE            | 7690E              | PCP:BLADE ASSY, COMP [3,1,1] | 3               | Prop           | Supersedes 7690C           |
| SPINNER          | C-3570-P           | SPINNER ASSEMBLY             | 1               | Prop           |                            |
| SPINNER          | D-6936-P           | SPINNER ASSEMBLY             | 1               | Prop           | REQ'D IF USING 7690E BLADE |
| GOVERNOR         | E2-1X              | IDS Item                     | 1               | A/C            |                            |
| SPIN MTG KIT     | A-2476-6           | SPINNER - MTG KIT            | 1               | Prop           |                            |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20       | 6               | Prop           |                            |

**Non-HPI Governor:**

Republic

**Model:** RC-3  
**Trade Name:** Seabee  
**Aircraft T.C./STC:** SA1293NW  
**Propeller Model:** HC-E3YR-7LF  
**Propeller T.C.:** P33EA  
**Blade Model(s):** FLC8468-4R  
**Prop Diameter:** 82

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** -13.5 +/- 0.5  
**Low Pitch Angle:** 11.9 +/- 0.1  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 3767      **Rev.:** -      **IC Date:** 07/08/2020

**Modifier:** Randy Michael Komko  
**Engine Model:** IO-540-K1B5  
**Power:** 300 HP @ 2700 RPM  
**Placard/Restr:**

**Notes:** B-2470 Control Unit

**Startlock Angle:**  
**Feather/High Angle:** 28.0 +/- 1.0  
**Cwt Angle:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>           | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|------------------------------|-----------------|----------------|-----------------|
| PROPELLER        | E3R00260           | HC-E3YR-7LF/FLC8468-4R       | 1               | A/C            |                 |
| BLADE            | FLC8468-4R         | PCP:BLADE UNIT, ALUMINUM     | 3               | Prop           |                 |
| GOVERNOR         | F6-59              | GOVERNOR ASSEMBLY, F-6-( )   | 1               | Prop           |                 |
| COUNTERWEIGHT    | B-3202H-1          | PCP:COUNTERWEIGHT            | 1               | Blade          |                 |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20       | 6               | Prop           |                 |
| MISC             | B-4270             | BETA VALVE, PRESSURE CONTROL | 1               | Prop           |                 |

**Non-HPI Governor:**

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### REPUBLIC (STOL AMPHIBIAN)

**Model:** RC-3  
**Trade Name:** SEABEE  
**Aircraft T.C./STC:** A769  
**Propeller Model:** HC-12X20-2  
**Propeller T.C.:**  
**Blade Model(s):** L8427  
**Prop Diameter:** 84" TO 82"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** -14.5 +-0.5  
**Low Pitch Angle:** 17.5 +-0.5  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

#### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>        | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|---------------------------|-----------------|----------------|-----------------|
| BLADE            | L8427              | IDS ITEM, BLADE, HARTZITE | 2               | Prop           |                 |
| COUNTERWEIGHT    | C-66-1             | IDS Item                  | 1               | Blade          |                 |

**IDS No.:** 906      **Rev.:** -      **DM Date:** 04/15/1993

**Modifier:**  
**Engine Model:** 6A8-215-B8F  
**Power:** 215 HP @ 2500 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** NA  
**Cwt Angle:** Positive

**Non-HPI Governor:**

### REPUBLIC (STOL AMPHIBIAN)

**Model:** RC-3  
**Trade Name:** SEABEE  
**Aircraft T.C./STC:** A769  
**Propeller Model:** not procurable  
**Propeller T.C.:**  
**Blade Model(s):**  
**Prop Diameter:** 84" NO CUT OFF

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** -14.0 +-0.5  
**Low Pitch Angle:** 13.5 +-0.2  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

#### Hartzell Approved Items:

**IDS No.:** 907      **Rev.:** -      **DM Date:** 05/18/1998

**Modifier:**  
**Engine Model:** 6A8-215-B8F  
**Power:** 215 HP @ 2500 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 19.5  
**Cwt Angle:** Positive

**Non-HPI Governor:**

# HARTZELL

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REPUBLIC (STOL AMPHIBIAN)

**Model:** RC-3  
**Trade Name:** SEABEE  
**Aircraft T.C./STC:** A769  
**Propeller Model:** HC-12X20-3,-3A,-3C,-3E  
**Propeller T.C.:**  
**Blade Model(s):** L8427  
**Prop Diameter:** 84" TO 82"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** -14.5 +-0.5  
**Low Pitch Angle:** 17.5 +-0.5  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>        | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|---------------------------|-----------------|----------------|-----------------|
| BLADE            | L8427              | IDS ITEM, BLADE, HARTZITE | 2               | Prop           |                 |
| COUNTERWEIGHT    | C-66-3             | IDS Item                  | 1               | Blade          |                 |

**IDS No.:** 908      **Rev.:** -      **DM Date:** 04/15/1993

**Modifier:**  
**Engine Model:** 6A8-215-B8F  
**Power:** 215 HP @ 2500 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** NA  
**Cwt Angle:** Positive

**Non-HPI Governor:**

REPUBLIC (STOL AMPHIBIAN)

**Model:** RC-3  
**Trade Name:** SEABEE  
**Aircraft T.C./STC:** A769  
**Propeller Model:** HC-12X20-3, HC-D2X20-3  
**Propeller T.C.:** P48GL  
**Blade Model(s):**  
**Prop Diameter:** 84" NO CUT OFF

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** -11.5 +-0.5  
**Low Pitch Angle:** 13.5 +- 0.2  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>         | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|----------------------------|-----------------|----------------|-----------------|
| MTG BOLT/STUD    | A-63B              | PCP: NUT, SHAFT, 20 SPLINE | 1               | Prop           |                 |
| MTG BOLT/STUD    | A-63-B             | NUT,SHAFT,20 SPLINE        | 1               | Prop           |                 |

**IDS No.:** 2276      **Rev.:** -      **DM Date:** 11/20/2003

**Modifier:**  
**Engine Model:** 6A8-215-B8F, -B9F  
**Power:** 215 HP @ 2500 RPM  
**Placard/Restr:**  
**Notes:** Include copy of Service Bulletin HC-SB-61-241 with Propeller Logbook.

**Startlock Angle:** NA  
**Feather/High Angle:** 19.5 MIN  
**Cwt Angle:** Positive

**Non-HPI Governor:**

# HARTZELL

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REPUBLIC (STOL AMPHIBIAN)

**Model:** RC-3  
**Trade Name:** SEABEE  
**Aircraft T.C./STC:** A769  
**Propeller Model:** HC-12X20-3, HC-D2X20-3  
**Propeller T.C.:** P48GL  
**Blade Model(s):** LV8433N  
**Prop Diameter:** 84" NO CUT OFF

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** -11.5 +-0.5  
**Low Pitch Angle:** 13.5 +- 0.2  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number | Description                | Quantity | Qty Per | Comments |
|---------------|-------------|----------------------------|----------|---------|----------|
| BLADE         | LV8433N     | BLADE                      | 2        | Prop    |          |
| MTG BOLT/STUD | A-63B       | PCP: NUT, SHAFT, 20 SPLINE | 1        | Prop    |          |
| MTG BOLT/STUD | A-63-B      | NUT,SHAFT,20 SPLINE        | 1        | Prop    |          |

**IDS No.:** 2277      **Rev.:** -      **DM Date:** 11/20/2003

**Modifier:**  
**Engine Model:** 6A8-215-B8F, -B9F  
**Power:** 215 HP @ 2500 RPM  
**Placard/Restr:**

**Notes:** Include copy of Service Bulletin HC-SB-61-241 with Propeller Logbook.

**Startlock Angle:** NA  
**Feather/High Angle:** 19.5 MIN  
**Cwt Angle:** Positive

**Non-HPI Governor:**

REPUBLIC (STOL AMPHIBIAN)

**Model:** RC-3  
**Trade Name:** SEABEE  
**Aircraft T.C./STC:** A769  
**Propeller Model:** HC-D2MV20-3  
**Propeller T.C.:** P48GL  
**Blade Model(s):** LMV8433N  
**Prop Diameter:** 84" NO CUT OFF

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** -11.5 +-0.5  
**Low Pitch Angle:** 13.5 +- 0.2  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number    | Description                | Quantity | Qty Per | Comments                 |
|---------------|----------------|----------------------------|----------|---------|--------------------------|
| PROPELLER     | D2210001       | HC-D2MV20-3/LMV8433N       | 1        | A/C     |                          |
| BLADE         | LMV8433N       | PCP:BLADE UNIT, ALUMINUM   | 2        | Prop    |                          |
| MTG BOLT/STUD | A-63B          | PCP: NUT, SHAFT, 20 SPLINE | 1        | Prop    |                          |
| MTG BOLT/STUD | A-63-B         | NUT,SHAFT,20 SPLINE        | 1        | Prop    |                          |
| OVERHAUL KIT  | HC-D2MV20-3-OH | O/H KIT                    | 1        | Prop    | For aftermarket use only |

**IDS No.:** 909      **Rev.:** 2      **IC Date:** 07/06/2015

**Modifier:**  
**Engine Model:** 6A8-215-B8F, -B9F  
**Power:** 215 HP @ 2500 RPM  
**Placard/Restr:**

**Notes:** Include copy of Service Bulletin HC-SB-61-241 with Propeller Logbook.

**Startlock Angle:** NA  
**Feather/High Angle:** 19.5 MIN  
**Cwt Angle:** Positive

**Non-HPI Governor:**

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### REPUBLIC (STOL AMPHIBIAN)

**Model:** RC-3  
**Trade Name:** SEABEE  
**Aircraft T.C./STC:** STC-SA3-88  
**Propeller Model:** not procurable  
**Propeller T.C.:**  
**Blade Model(s):**  
**Prop Diameter:** 82.6" TO 82"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** 18.0 +/-0.2  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

#### Hartzell Approved Items:

**IDS No.:** 917      **Rev.:** -      **DM Date:** 05/18/1998

**Modifier:** JOHN E AYER  
**Engine Model:** 6A8-215-B8F  
**Power:** 215 HP @ 2500 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** NA  
**Cwt Angle:** Positive

**Non-HPI Governor:**

### REPUBLIC (STOL AMPHIBIAN)

**Model:** RC-3  
**Trade Name:** SEABEE  
**Aircraft T.C./STC:** STC-SA3-88  
**Propeller Model:** HC-13V20-6L, HC-D3V20-6L  
**Propeller T.C.:** P51GL  
**Blade Model(s):** LV8433N-2  
**Prop Diameter:**

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** 19.0 +/-0.2  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

#### Hartzell Approved Items:

**IDS No.:** 2303      **Rev.:** -      **DM Date:** 06/22/2004

**Modifier:** JOHN E AYER  
**Engine Model:** 6A8-215-B8F (s/charged)  
**Power:** 280 HP @ 2500 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** NA  
**Cwt Angle:**

**Non-HPI Governor:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>         | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|----------------------------|-----------------|----------------|-----------------|
| BLADE            | LV8433N-2          | BLADE                      | 3               | Prop           |                 |
| MTG BOLT/STUD    | A-63B              | PCP: NUT, SHAFT, 20 SPLINE | 1               | Prop           |                 |
| MTG BOLT/STUD    | A-63-B             | NUT,SHAFT,20 SPLINE        | 1               | Prop           |                 |

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### REPUBLIC (STOL AMPHIBIAN)

**Model:** RC-3  
**Trade Name:** SEABEE  
**Aircraft T.C./STC:** STC-SA3-88  
**Propeller Model:** HC-D3MV20-6L  
**Propeller T.C.:** P51GL  
**Blade Model(s):** LMV8433N-2  
**Prop Diameter:**

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** 19.0  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

#### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>         | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|----------------------------|-----------------|----------------|-----------------|
| BLADE            | LMV8433N-2         | PCP:BLADE UNIT, ALUMINUM   | 3               | Prop           |                 |
| MTG BOLT/STUD    | A-63B              | PCP: NUT, SHAFT, 20 SPLINE | 1               | Prop           |                 |
| MTG BOLT/STUD    | A-63-B             | NUT,SHAFT,20 SPLINE        | 1               | Prop           |                 |

**IDS No.:** 1571      **Rev.:** 1      **D**      **Date:** 01/10/2011

**Modifier:** JOHN E AYER  
**Engine Model:** 6A8-215-B8F (s/charged)  
**Power:** 280 HP @ 2500 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** NA  
**Cwt Angle:**

**Non-HPI Governor:**

### REPUBLIC (STOL AMPHIBIAN)

**Model:** RC-3  
**Trade Name:** SEABEE  
**Aircraft T.C./STC:** STC-SA3-88  
**Propeller Model:** HC-D3V20-6L  
**Propeller T.C.:** P51GL  
**Blade Model(s):** LV8433N-2  
**Prop Diameter:**

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** 18.0 +-0.2  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

#### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>         | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|----------------------------|-----------------|----------------|-----------------|
| BLADE            | LV8433N-2          | BLADE                      | 3               | Prop           |                 |
| MTG BOLT/STUD    | A-63B              | PCP: NUT, SHAFT, 20 SPLINE | 1               | Prop           |                 |
| MTG BOLT/STUD    | A-63-B             | NUT,SHAFT,20 SPLINE        | 1               | Prop           |                 |

**IDS No.:** 2326      **Rev.:** -      **DM**      **Date:** 11/23/2003

**Modifier:** JOHN E AYER  
**Engine Model:** 6A8-215-B8F (non-s/charged)  
**Power:** 215 HP @ 2500 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** NA  
**Cwt Angle:**

**Non-HPI Governor:**

# HARTZELL

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REPUBLIC (STOL AMPHIBIAN)

IDS No.: 918 Rev.: 2 IC Date: 07/07/2015

Model: RC-3  
 Trade Name: SEABEE  
 Aircraft T.C./STC: STC-SA3-88  
 Propeller Model: HC-D3MV20-6L  
 Propeller T.C.: P51GL  
 Blade Model(s): LMV8433N-2  
 Prop Diameter:

Modifier: JOHN E AYER  
 Engine Model: 6A8-215-B8F (non-s/charged)  
 Power: 215 HP @ 2500 RPM  
 Placard/Restr:  
 Notes:

**Prop Setup:**

Ref. Radius: 30  
 Reverse Angle:  
 Low Pitch Angle: 18.0  
 Stud Protrusion

Startlock Angle: NA  
 Feather/High Angle: NA  
 Cwt Angle:

**Non-HPI Items:**

Non-HPI Spinner:

Non-HPI Governor:

**Hartzell Approved Items:**

| Item Type     | Item Number     | Description                    | Quantity | Qty Per | Comments                 |
|---------------|-----------------|--------------------------------|----------|---------|--------------------------|
| PROPELLER     | D3210020        | HC-D3MV20-6L/LMV8433N-2/NO HYD | 1        | A/C     |                          |
| BLADE         | LMV8433N-2      | PCP:BLADE UNIT, ALUMINUM       | 3        | Prop    |                          |
| MTG BOLT/STUD | A-63B           | PCP: NUT, SHAFT, 20 SPLINE     | 1        | Prop    |                          |
| MTG BOLT/STUD | A-63-B          | NUT,SHAFT,20 SPLINE            | 1        | Prop    |                          |
| OVERHAUL KIT  | HC-D3MV20-6L-OH | O/H KIT                        | 1        | Prop    | For aftermarket use only |

REPUBLIC (STOL AMPHIBIAN)

IDS No.: 2279 Rev.: - DM Date: 11/20/2003

Model: RC-3  
 Trade Name: SEABEE  
 Aircraft T.C./STC: STC-SA282NW  
 Propeller Model: HC-83V20-3L, HC-A3V20-3L  
 Propeller T.C.: P6EA  
 Blade Model(s): LV8433N  
 Prop Diameter: 84.6" TO 84"

Modifier: STC BEE INC.  
 Engine Model: GO-435  
 Power: HP @ 1925 RPM  
 Placard/Restr:  
 Notes:

**Prop Setup:**

Ref. Radius: 30  
 Reverse Angle: -15.0 +- .5  
 Low Pitch Angle: 14.0 +-0.5  
 Stud Protrusion

Startlock Angle:  
 Feather/High Angle: 29.0 +-0.5  
 Cwt Angle: Positive

**Non-HPI Items:**

Non-HPI Spinner:

Non-HPI Governor: NONE

**Hartzell Approved Items:**

| Item Type                    | Item Number | Description                | Quantity | Qty Per | Comments |
|------------------------------|-------------|----------------------------|----------|---------|----------|
| BLADE                        | LV8433N     | BLADE                      | 3        | Prop    |          |
| COUNTERWEIGHT SLUG A-619-6   |             | SLUG, COUNTERWEIGHT        | 1        | Blade   |          |
| COUNTERWEIGHT SLUG A-890-8   |             | PCP:SLUG, COUNTERWEIGHT    | 1        | Blade   |          |
| COUNTERWEIGHT SLUG B-3384-23 |             | BOLT, 1/4-28, HEX HEAD     | 2        | Blade   |          |
| COUNTERWEIGHT SLUG B-3808-4  |             | NUT,HEX,SELF-LOCKING       | 2        | Blade   |          |
| MTG BOLT/STUD                | A-63B       | PCP: NUT, SHAFT, 20 SPLINE | 1        | Prop    |          |
| MTG BOLT/STUD                | A-63-B      | NUT,SHAFT,20 SPLINE        | 1        | Prop    |          |

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REPUBLIC (STOL AMPHIBIAN)

IDS No.: 916 Rev.: 1 D Date: 01/10/2011

Model: RC-3  
 Trade Name: SEABEE  
 Aircraft T.C./STC: STC-SA282NW  
 Propeller Model: HC-A3MV20-3L  
 Propeller T.C.: P6EA  
 Blade Model(s): LMV8433N  
 Prop Diameter: 84.6" TO 84"

Modifier: STC BEE INC.  
 Engine Model: GO-435  
 Power: HP @ 1925 RPM  
 Placard/Restr:  
 Notes:

**Prop Setup:**

Ref. Radius: 30  
 Reverse Angle: -15.0 +- .5  
 Low Pitch Angle: 14.0 +-0.5  
 Stud Protrusion

Startlock Angle:  
 Feather/High Angle: 29.0 +-0.5  
 Cwt Angle: Positive

**Non-HPI Items:**

Non-HPI Spinner:

Non-HPI Governor: NONE

**Hartzell Approved Items:**

| Item Type                    | Item Number | Description                | Quantity | Qty Per | Comments |
|------------------------------|-------------|----------------------------|----------|---------|----------|
| BLADE                        | LMV8433N    | PCP:BLADE UNIT, ALUMINUM   | 3        | Prop    |          |
| COUNTERWEIGHT SLUG A-619-6   |             | SLUG, COUNTERWEIGHT        | 1        | Blade   |          |
| COUNTERWEIGHT SLUG A-890-8   |             | PCP:SLUG, COUNTERWEIGHT    | 1        | Blade   |          |
| COUNTERWEIGHT SLUG B-3384-23 |             | BOLT, 1/4-28, HEX HEAD     | 2        | Blade   |          |
| COUNTERWEIGHT SLUG B-3808-4  |             | NUT,HEX,SELF-LOCKING       | 2        | Blade   |          |
| MTG BOLT/STUD                | A-63B       | PCP: NUT, SHAFT, 20 SPLINE | 1        | Prop    |          |
| MTG BOLT/STUD                | A-63-B      | NUT,SHAFT,20 SPLINE        | 1        | Prop    |          |

REPUBLIC (STOL AMPHIBIAN)

IDS No.: 910 Rev.: 2 IC Date: 07/07/2015

Model: RC-3  
 Trade Name: SEABEE  
 Aircraft T.C./STC: STC-SA615NW  
 Propeller Model: HC-A3MV20-3L  
 Propeller T.C.: P6EA  
 Blade Model(s): LMV9333N-5  
 Prop Diameter: 88.6"

Modifier: SIM-U-FLIGHT  
 Engine Model: GO-435-C2B  
 Power: 260 HP @ 2182 RPM  
 Placard/Restr:  
 Notes:

**Prop Setup:**

Ref. Radius: 30  
 Reverse Angle: -15.0 +-0.5  
 Low Pitch Angle: 17.0 +-0.1  
 Stud Protrusion

Startlock Angle: NA  
 Feather/High Angle: 30.0 +-1.0  
 Cwt Angle: Positive

**Non-HPI Items:**

Non-HPI Spinner:

Non-HPI Governor:

**Hartzell Approved Items:**

| Item Type                    | Item Number     | Description                    | Quantity | Qty Per | Comments                 |
|------------------------------|-----------------|--------------------------------|----------|---------|--------------------------|
| PROPELLER                    | A3210123        | HC-A3MV20-3L/LMV9333N-5(NO-VLV | 1        | A/C     |                          |
| BLADE                        | LMV9333N-5      | PCP:BLADE UNIT, ALUMINUM       | 3        | Prop    |                          |
| COUNTERWEIGHT SLUG A-619-6   |                 | SLUG, COUNTERWEIGHT            | 1        | Blade   |                          |
| COUNTERWEIGHT SLUG A-890-8   |                 | PCP:SLUG, COUNTERWEIGHT        | 1        | Blade   |                          |
| COUNTERWEIGHT SLUG B-3384-23 |                 | BOLT, 1/4-28, HEX HEAD         | 2        | Blade   |                          |
| COUNTERWEIGHT SLUG B-3808-4  |                 | NUT,HEX,SELF-LOCKING           | 2        | Blade   |                          |
| MTG BOLT/STUD                | A-63B           | PCP: NUT, SHAFT, 20 SPLINE     | 1        | Prop    |                          |
| MTG BOLT/STUD                | A-63-B          | NUT,SHAFT,20 SPLINE            | 1        | Prop    |                          |
| OVERHAUL KIT                 | HC-A3MV20-3L-OH | O/H KIT                        | 1        | Prop    | For aftermarket use only |



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REPUBLIC (STOL AMPHIBIAN)

**Model:** RC-3  
**Trade Name:** SEABEE  
**Aircraft T.C./STC:** STC-SA282NW  
**Propeller Model:** HC-83V20-3L, HC-A3V20-3L  
**Propeller T.C.:** P6EA  
**Blade Model(s):** LV8433N  
**Prop Diameter:** 84.6" TO 84"

**IDS No.:** 2278 **Rev.:** - **DM Date:** 11/20/2003

**Modifier:** STC BEE INC.  
**Engine Model:** GO-480-B, B1B, B1C, B1D, B1A6  
**Power:** 340 HP @ 2182 RPM  
**Placard/Restr:**  
**Notes:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** -15.0 +- .5  
**Low Pitch Angle:** 14.0 +-0.5  
**Stud Protrusion**

**Startlock Angle:**  
**Feather/High Angle:** 29.0 +-0.5  
**Cwt Angle:** Positive

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:** NONE

**Hartzell Approved Items:**

| Item Type                    | Item Number | Description                | Quantity | Qty Per | Comments |
|------------------------------|-------------|----------------------------|----------|---------|----------|
| BLADE                        | LV8433N     | BLADE                      | 3        | Prop    |          |
| COUNTERWEIGHT SLUG A-619-6   |             | SLUG, COUNTERWEIGHT        | 1        | Blade   |          |
| COUNTERWEIGHT SLUG A-890-8   |             | PCP:SLUG, COUNTERWEIGHT    | 1        | Blade   |          |
| COUNTERWEIGHT SLUG B-3384-23 |             | BOLT, 1/4-28, HEX HEAD     | 2        | Blade   |          |
| COUNTERWEIGHT SLUG B-3808-4  |             | NUT,HEX,SELF-LOCKING       | 2        | Blade   |          |
| MTG BOLT/STUD                | A-63B       | PCP: NUT, SHAFT, 20 SPLINE | 1        | Prop    |          |
| MTG BOLT/STUD                | A-63-B      | NUT,SHAFT,20 SPLINE        | 1        | Prop    |          |

REPUBLIC (STOL AMPHIBIAN)

**Model:** RC-3  
**Trade Name:** SEABEE  
**Aircraft T.C./STC:** SA614NW  
**Propeller Model:** HC-A2MV20-3L  
**Propeller T.C.:** P24EA  
**Blade Model(s):** LMV9333N-4  
**Prop Diameter:** 89"

**IDS No.:** 1689 **Rev.:** 1 **D Date:** 01/10/2011

**Modifier:** SIMUFLIGHT  
**Engine Model:** GO-480-B1B  
**Power:** 270 HP @ 2182 RPM  
**Placard/Restr:**  
**Notes:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** -15.5 +-0.5  
**Low Pitch Angle:** 16.0 +-0.1  
**Stud Protrusion**

**Startlock Angle:**  
**Feather/High Angle:** 31.5 +-0.5  
**Cwt Angle:** Positive

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type                    | Item Number | Description                | Quantity | Qty Per | Comments |
|------------------------------|-------------|----------------------------|----------|---------|----------|
| PROPELLER                    | A2210151    | HC-A2MV20-3L/LMV9333N-4    | 1        | A/C     |          |
| BLADE                        | LMV9333N-4  | PCP:BLADE UNIT, ALUMINUM   | 2        | Prop    |          |
| COUNTERWEIGHT SLUG A-619-6   |             | SLUG, COUNTERWEIGHT        | 1        | Blade   |          |
| COUNTERWEIGHT SLUG A-890-8   |             | PCP:SLUG, COUNTERWEIGHT    | 1        | Blade   |          |
| COUNTERWEIGHT SLUG B-3384-23 |             | BOLT, 1/4-28, HEX HEAD     | 2        | Blade   |          |
| COUNTERWEIGHT SLUG B-3808-4  |             | NUT,HEX,SELF-LOCKING       | 2        | Blade   |          |
| MTG BOLT/STUD                | A-63B       | PCP: NUT, SHAFT, 20 SPLINE | 1        | Prop    |          |
| MTG BOLT/STUD                | A-63-B      | NUT,SHAFT,20 SPLINE        | 1        | Prop    |          |

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REPUBLIC (STOL AMPHIBIAN)

**Model:** RC-3  
**Trade Name:** SEABEE  
**Aircraft T.C./STC:** STC-SA282NW  
**Propeller Model:** HC-A3MV20-3L  
**Propeller T.C.:** P6EA  
**Blade Model(s):** LMV8433N  
**Prop Diameter:** 84.6" TO 84"

**IDS No.:** 914      **Rev.:** 2      **IC Date:** 07/07/2015

**Modifier:** STC BEE INC.  
**Engine Model:** GO-480-B, B1B, B1C, B1D, B1A6  
**Power:** 270 HP @ 2182 RPM  
**Placard/Restr:**  
**Notes:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** -15.0 +- .5  
**Low Pitch Angle:** 14.0 +-0.5  
**Stud Protrusion**

**Startlock Angle:**  
**Feather/High Angle:** 29.0 +-0.5  
**Cwt Angle:** Positive

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:** NONE

**Hartzell Approved Items:**

| Item Type                    | Item Number     | Description                | Quantity | Qty Per | Comments                 |
|------------------------------|-----------------|----------------------------|----------|---------|--------------------------|
| PROPELLER                    | A3210130        | HC-A3MV20-3L/LMV8433N      | 1        | A/C     |                          |
| BLADE                        | LMV8433N        | PCP:BLADE UNIT, ALUMINUM   | 3        | Prop    |                          |
| COUNTERWEIGHT SLUG A-619-6   |                 | SLUG, COUNTERWEIGHT        | 1        | Blade   |                          |
| COUNTERWEIGHT SLUG A-890-8   |                 | PCP:SLUG, COUNTERWEIGHT    | 1        | Blade   |                          |
| COUNTERWEIGHT SLUG B-3384-23 |                 | BOLT, 1/4-28, HEX HEAD     | 2        | Blade   |                          |
| COUNTERWEIGHT SLUG B-3808-4  |                 | NUT,HEX,SELF-LOCKING       | 2        | Blade   |                          |
| MTG BOLT/STUD                | A-63B           | PCP: NUT, SHAFT, 20 SPLINE | 1        | Prop    |                          |
| MTG BOLT/STUD                | A-63-B          | NUT,SHAFT,20 SPLINE        | 1        | Prop    |                          |
| OVERHAUL KIT                 | HC-A3MV20-3L-OH | O/H KIT                    | 1        | Prop    | For aftermarket use only |

REPUBLIC (STOL AMPHIBIAN)

**Model:** RC-3  
**Trade Name:** SEABEE  
**Aircraft T.C./STC:** STC-SA5734NM  
**Propeller Model:** HC-A3MV20-3L  
**Propeller T.C.:** P6EA  
**Blade Model(s):** LMV9333N-6Q  
**Prop Diameter:** 87.625"

**IDS No.:** 919      **Rev.:** 1      **D Date:** 01/10/2011

**Modifier:** DONALD KYTE  
**Engine Model:** GSO-480-B1C6  
**Power:** 340 HP @ 2182 RPM  
**Placard/Restr:**  
**Notes:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** -15.0 +-0.5  
**Low Pitch Angle:** 17.0 +-0.1  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 30.0 +-1.0  
**Cwt Angle:** 9.0 +-1.0

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type                    | Item Number | Description                | Quantity | Qty Per | Comments |
|------------------------------|-------------|----------------------------|----------|---------|----------|
| BLADE                        | LMV9333N-6Q | PCP:BLADE UNIT, ALUMINUM   | 3        | Prop    |          |
| COUNTERWEIGHT SLUG A-619-6   |             | SLUG, COUNTERWEIGHT        | 1        | Blade   |          |
| COUNTERWEIGHT SLUG A-890-8   |             | PCP:SLUG, COUNTERWEIGHT    | 1        | Blade   |          |
| COUNTERWEIGHT SLUG B-3384-23 |             | BOLT, 1/4-28, HEX HEAD     | 2        | Blade   |          |
| COUNTERWEIGHT SLUG B-3808-4  |             | NUT,HEX,SELF-LOCKING       | 2        | Blade   |          |
| MTG BOLT/STUD                | A-63B       | PCP: NUT, SHAFT, 20 SPLINE | 1        | Prop    |          |
| MTG BOLT/STUD                | A-63-B      | NUT,SHAFT,20 SPLINE        | 1        | Prop    |          |

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REPUBLIC (STOL AMPHIBIAN)

**Model:** RC-3  
**Trade Name:** SEABEE  
**Aircraft T.C./STC:** Field Approval  
**Propeller Model:** HC-A3MVF-3L  
**Propeller T.C.:** P6EA  
**Blade Model(s):** LMV9333N-6Q  
**Prop Diameter:** 87.625

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** -15.0 +-0.5  
**Low Pitch Angle:** 17.0 +-0.2  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type                    | Item Number    | Description              | Quantity | Qty Per | Comments                 |
|------------------------------|----------------|--------------------------|----------|---------|--------------------------|
| PROPELLER                    | A3F10092       | HC-A3MVF-3L/LMV9333N-6Q  | 1        | A/C     |                          |
| BLADE                        | LMV9333N-6Q    | PCP:BLADE UNIT, ALUMINUM | 3        | Prop    |                          |
| COUNTERWEIGHT SLUG A-619-6   |                | SLUG, COUNTERWEIGHT      | 1        | Blade   |                          |
| COUNTERWEIGHT SLUG A-890-8   |                | PCP:SLUG, COUNTERWEIGHT  | 1        | Blade   |                          |
| COUNTERWEIGHT SLUG B-3384-23 |                | BOLT, 1/4-28, HEX HEAD   | 2        | Blade   |                          |
| COUNTERWEIGHT SLUG B-3808-4  |                | NUT,HEX,SELF-LOCKING     | 2        | Blade   |                          |
| MTG BOLT/STUD                | A-2983         | STUD, MOUNTING, 1/2-20   | 6        | Prop    |                          |
| OVERHAUL KIT                 | HC-A3MVF-3L-OH | O/H KIT                  | 1        | Prop    | For aftermarket use only |

**IDS No.:** 1690      **Rev.:** 2      **IC Date:** 07/07/2015

**Modifier:** Henry Ruzakowski  
**Engine Model:** GSO-480-B1C6  
**Power:** 340 HP @ 2182 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:**  
**Feather/High Angle:** 30.0 +-1.0  
**Cwt Angle:** Positive

**Non-HPI Governor:**

REPUBLIC (STOL AMPHIBIAN)

**Model:** RC-3  
**Trade Name:** SEABEE  
**Aircraft T.C./STC:** STC-SA282NW  
**Propeller Model:** HC-A3V20-3L  
**Propeller T.C.:** P6EA  
**Blade Model(s):** LV9333N-4  
**Prop Diameter:** 89.6" TO 89"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** -15.0 +- .5  
**Low Pitch Angle:** 14.0 +-0.5  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type                    | Item Number | Description             | Quantity | Qty Per | Comments |
|------------------------------|-------------|-------------------------|----------|---------|----------|
| BLADE                        | LV9333N-4   | BLADE                   | 3        | Prop    |          |
| COUNTERWEIGHT SLUG A-619-6   |             | SLUG, COUNTERWEIGHT     | 1        | Blade   |          |
| COUNTERWEIGHT SLUG A-890-8   |             | PCP:SLUG, COUNTERWEIGHT | 1        | Blade   |          |
| COUNTERWEIGHT SLUG B-3384-23 |             | BOLT, 1/4-28, HEX HEAD  | 2        | Blade   |          |
| COUNTERWEIGHT SLUG B-3808-4  |             | NUT,HEX,SELF-LOCKING    | 2        | Blade   |          |

**IDS No.:** 2325      **Rev.:** -      **DM Date:** 11/23/2003

**Modifier:** STC BEE INC  
**Engine Model:** GO-480-C1D6  
**Power:** 340 HP @ 2182 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:**  
**Feather/High Angle:** 29.0 +-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:**

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REPUBLIC (STOL AMPHIBIAN)

**Model:** RC-3  
**Trade Name:** SEABEE  
**Aircraft T.C./STC:** STC-SA282NW  
**Propeller Model:** HC-A3VF-5AL  
**Propeller T.C.:** P6EA  
**Blade Model(s):** LV9333N-4  
**Prop Diameter:** 89.6" TO 89"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** -15.0 +- .5  
**Low Pitch Angle:** 14.0 +-0.5  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number | Description                   | Quantity | Qty Per | Comments |
|---------------|-------------|-------------------------------|----------|---------|----------|
| BLADE         | LV9333N-4   | BLADE                         | 3        | Prop    |          |
| SPINNER       | 836-25      | SPINNER ASSEMBLY              | 1        | Prop    |          |
| SPINNER       | 836-26      | SPINNER ASSEMBLY              | 1        | Prop    |          |
| MTG BOLT/STUD | A-1328-1    | BOLT,MOUNTING,1/2-20,12 POINT | 6        | Prop    |          |

**IDS No.:** 2324      **Rev.:** -      **DM Date:** 11/23/2003

**Modifier:** STC BEE INC.  
**Engine Model:** GO-480-C2C6, C2D6, G2D6, G2F6  
**Power:** 295 HP @ 2182 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** 29.0+-2.0  
**Feather/High Angle:** 83.0 +-1.0  
**Cwt Angle:** Positive

**Non-HPI Governor:**

REPUBLIC (STOL AMPHIBIAN)

**Model:** RC-3  
**Trade Name:** SEABEE  
**Aircraft T.C./STC:** STC-SA282NW  
**Propeller Model:** HC-A3MV20-3L  
**Propeller T.C.:** P6EA  
**Blade Model(s):** LMV9333N-4  
**Prop Diameter:** 89.6" TO 89"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** -15.0 +- .5  
**Low Pitch Angle:** 14.0 +-0.5  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type                    | Item Number | Description              | Quantity | Qty Per | Comments |
|------------------------------|-------------|--------------------------|----------|---------|----------|
| BLADE                        | LMV9333N-4  | PCP:BLADE UNIT, ALUMINUM | 3        | Prop    |          |
| COUNTERWEIGHT SLUG A-619-6   |             | SLUG, COUNTERWEIGHT      | 1        | Blade   |          |
| COUNTERWEIGHT SLUG A-890-8   |             | PCP:SLUG, COUNTERWEIGHT  | 1        | Blade   |          |
| COUNTERWEIGHT SLUG B-3384-23 |             | BOLT, 1/4-28, HEX HEAD   | 2        | Blade   |          |
| COUNTERWEIGHT SLUG B-3808-4  |             | NUT,HEX,SELF-LOCKING     | 2        | Blade   |          |

**IDS No.:** 915      **Rev.:** 1      **D Date:** 01/10/2011

**Modifier:** STC BEE INC  
**Engine Model:** GO-480-C1D6  
**Power:** 340 HP @ 2182 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:**  
**Feather/High Angle:** 29.0 +-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:**

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REPUBLIC (STOL AMPHIBIAN)

**Model:** RC-3  
**Trade Name:** SEABEE  
**Aircraft T.C./STC:** STC-SA282NW  
**Propeller Model:** HC-A3MVF-5AL  
**Propeller T.C.:** P6EA  
**Blade Model(s):** LMV9333N-4  
**Prop Diameter:** 89.6" TO 89"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** -15.0 +- .5  
**Low Pitch Angle:** 14.0 +-0.5  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number     | Description                   | Quantity | Qty Per | Comments                 |
|---------------|-----------------|-------------------------------|----------|---------|--------------------------|
| PROPELLER     | A3F10111        | HC-A3MVF-5AL/LMV9333N-4       | 1        | A/C     |                          |
| BLADE         | LMV9333N-4      | PCP:BLADE UNIT, ALUMINUM      | 3        | Prop    |                          |
| SPINNER       | 836-25          | SPINNER ASSEMBLY              | 1        | Prop    |                          |
| SPINNER       | 836-26          | SPINNER ASSEMBLY              | 1        | Prop    |                          |
| MTG BOLT/STUD | A-1328-1        | BOLT,MOUNTING,1/2-20,12 POINT | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-A3MVF-5AL-OH | O/H KIT                       | 1        | Prop    | For aftermarket use only |

**IDS No.:** 912      **Rev.:** 2      **IC Date:** 07/07/2015

**Modifier:** STC BEE INC.  
**Engine Model:** GO-480-C2C6, C2D6, G2D6, G2F6  
**Power:** 295 HP @ 2182 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** 29.0+-2.0  
**Feather/High Angle:** 83.0 +-1.0  
**Cwt Angle:** Positive

**Non-HPI Governor:**

REPUBLIC (STOL AMPHIBIAN)

**Model:** RC-3  
**Trade Name:** SEABEE  
**Aircraft T.C./STC:** STC-SA282NW  
**Propeller Model:** HC-A3VF-3L  
**Propeller T.C.:** P6EA  
**Blade Model(s):**  
**Prop Diameter:** 84.6" TO 84"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** -15.0 +-0.5  
**Low Pitch Angle:** 17.0 +-0.2  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type          | Item Number | Description             | Quantity | Qty Per | Comments |
|--------------------|-------------|-------------------------|----------|---------|----------|
| COUNTERWEIGHT SLUG | A-619-6     | SLUG, COUNTERWEIGHT     | 1        | Blade   |          |
| COUNTERWEIGHT SLUG | A-890-8     | PCP:SLUG, COUNTERWEIGHT | 1        | Blade   |          |
| COUNTERWEIGHT SLUG | B-3384-23   | BOLT, 1/4-28, HEX HEAD  | 2        | Blade   |          |
| COUNTERWEIGHT SLUG | B-3808-4    | NUT,HEX,SELF-LOCKING    | 2        | Blade   |          |
| MTG BOLT/STUD      | A-2983      | STUD, MOUNTING, 1/2-20  | 6        | Prop    |          |

**IDS No.:** 2305      **Rev.:** -      **DM Date:** 11/20/2003

**Modifier:** STC BEE INC.  
**Engine Model:** GO-480-F1A6  
**Power:** 275 HP @ 2182 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 30.0 +-1.0  
**Cwt Angle:** 5.5 +-1.0

**Non-HPI Governor:**

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REPUBLIC (STOL AMPHIBIAN)

**Model:** RC-3  
**Trade Name:** SEABEE  
**Aircraft T.C./STC:** STC-SA282NW  
**Propeller Model:** HC-A3MVF-3L  
**Propeller T.C.:** P6EA  
**Blade Model(s):** LMV8433N  
**Prop Diameter:** 84.6" TO 84"

**IDS No.:** 1621      **Rev.:** 2      **IC**      **Date:** 07/07/2015

**Modifier:** STC BEE INC.  
**Engine Model:** GO-480-F1A6  
**Power:** 275 HP @ 2182 RPM  
**Placard/Restr:**  
**Notes:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** -15.0 +-0.5  
**Low Pitch Angle:** 17.0 +-0.2  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 30.0 +-1.0  
**Cwt Angle:** 5.5 +-1.0

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type                    | Item Number    | Description              | Quantity | Qty Per | Comments                 |
|------------------------------|----------------|--------------------------|----------|---------|--------------------------|
| PROPELLER                    | A3F10100       | HC-A3MVF-3L/LMV8433N     | 1        | A/C     |                          |
| BLADE                        | LMV8433N       | PCP:BLADE UNIT, ALUMINUM | 3        | Prop    |                          |
| COUNTERWEIGHT SLUG A-619-6   |                | SLUG, COUNTERWEIGHT      | 1        | Blade   |                          |
| COUNTERWEIGHT SLUG A-890-8   |                | PCP:SLUG, COUNTERWEIGHT  | 1        | Blade   |                          |
| COUNTERWEIGHT SLUG B-3384-23 |                | BOLT, 1/4-28, HEX HEAD   | 2        | Blade   |                          |
| COUNTERWEIGHT SLUG B-3808-4  |                | NUT,HEX,SELF-LOCKING     | 2        | Blade   |                          |
| MTG BOLT/STUD                | A-2983         | STUD, MOUNTING, 1/2-20   | 6        | Prop    |                          |
| OVERHAUL KIT                 | HC-A3MVF-3L-OH | O/H KIT                  | 1        | Prop    | For aftermarket use only |

REPUBLIC (STOL AMPHIBIAN)

**Model:** RC-3  
**Trade Name:** SEABEE  
**Aircraft T.C./STC:** STC-SA282NW  
**Propeller Model:** HC-A3MVF-5AL  
**Propeller T.C.:** P6EA  
**Blade Model(s):** LMV9333N-6  
**Prop Diameter:** 87.6" TO 87"

**IDS No.:** 913      **Rev.:** 1      **D**      **Date:** 01/10/2011

**Modifier:** STC BEE INC.  
**Engine Model:** GO-480-F2A, -F2A6, -F4A6  
**Power:** 275 HP @ 2182 RPM  
**Placard/Restr:**  
**Notes:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** -15.5 +- .5  
**Low Pitch Angle:** 14.0 +-0.5  
**Stud Protrusion**

**Startlock Angle:** 29.0 +-2.0  
**Feather/High Angle:** 83.0 +-1.0  
**Cwt Angle:** Positive

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type     | Item Number | Description                   | Quantity | Qty Per | Comments |
|---------------|-------------|-------------------------------|----------|---------|----------|
| BLADE         | LMV9333N-6  | IDS ITEM, [2,2,1]             | 3        | Prop    |          |
| SPINNER       | 836-25      | SPINNER ASSEMBLY              | 1        | Prop    |          |
| SPINNER       | 836-26      | SPINNER ASSEMBLY              | 1        | Prop    |          |
| MTG BOLT/STUD | A-1328-1    | BOLT,MOUNTING,1/2-20,12 POINT | 6        | Prop    |          |

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REPUBLIC (STOL AMPHIBIAN)

**Model:** RC-3  
**Trade Name:** SEABEE  
**Aircraft T.C./STC:** STC-SA615NW  
**Propeller Model:** HC-A3V20-3L  
**Propeller T.C.:** P6EA  
**Blade Model(s):** LV9333N-4  
LV9333N-5  
**Prop Diameter:** 89.6"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** -15.0 approx.  
**Low Pitch Angle:** 17.0 +/-0.1  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:** NA

**IDS No.:** 2323      **Rev.:** -      **DM Date:** 11/23/2003

**Modifier:** SIM-U-FLIGHT  
**Engine Model:** GO, GSO, IGO, IGSO, 480 SERIES  
**Power:** 340 HP @ 2182 RPM  
**Placard/Restr:**  
**Notes:** Less reversing valve components

**Startlock Angle:** NA  
**Feather/High Angle:** 30.0 +/-1.0  
**Cwt Angle:** Positive

**Non-HPI Governor:** NA

### Hartzell Approved Items:

| <u>Item Type</u>             | <u>Item Number</u> | <u>Description</u>         | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------------------|--------------------|----------------------------|-----------------|----------------|-----------------|
| BLADE                        | LV9333N-4          | BLADE                      | 3               | Prop           |                 |
| BLADE                        | LV9333N-5          | BLADE                      | 3               | Prop           |                 |
| COUNTERWEIGHT SLUG A-619-6   |                    | SLUG, COUNTERWEIGHT        | 1               | Blade          |                 |
| COUNTERWEIGHT SLUG A-890-8   |                    | PCP:SLUG, COUNTERWEIGHT    | 1               | Blade          |                 |
| COUNTERWEIGHT SLUG B-3384-23 |                    | BOLT, 1/4-28, HEX HEAD     | 2               | Blade          |                 |
| COUNTERWEIGHT SLUG B-3808-4  |                    | NUT,HEX,SELF-LOCKING       | 2               | Blade          |                 |
| MTG BOLT/STUD                | A-63B              | PCP: NUT, SHAFT, 20 SPLINE | 1               | Prop           |                 |
| MTG BOLT/STUD                | A-63-B             | NUT,SHAFT,20 SPLINE        | 1               | Prop           |                 |

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### REPUBLIC (STOL AMPHIBIAN)

**Model:** RC-3  
**Trade Name:** SEABEE  
**Aircraft T.C./STC:** STC-SA615NW  
**Propeller Model:** HC-A3MV20-3L  
**Propeller T.C.:** P6EA  
**Blade Model(s):** LMV9333N-4  
 LMV9333N-5  
**Prop Diameter:** 89.6"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** -15.0 approx.  
**Low Pitch Angle:** 17.0 +-0.1  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:** NA

**IDS No.:** 911      **Rev.:** 2      **IC Date:** 07/07/2015

**Modifier:** SIM-U-FLIGHT  
**Engine Model:** GO, GSO, IGO, IGSO, 480 SERIES  
**Power:** 340 HP @ 2182 RPM  
**Placard/Restr:**  
**Notes:** Less reversing valve components

**Startlock Angle:** NA  
**Feather/High Angle:** 30.0 +-1.0  
**Cwt Angle:** Positive

**Non-HPI Governor:** NA

#### Hartzell Approved Items:

| Item Type                    | Item Number     | Description                | Quantity | Qty Per | Comments                 |
|------------------------------|-----------------|----------------------------|----------|---------|--------------------------|
| PROPELLER                    | A3210124        | HC-A3MV20-3L/LMV9333N-4    | 1        | A/C     |                          |
| BLADE                        | LMV9333N-4      | PCP:BLADE UNIT, ALUMINUM   | 3        | Prop    |                          |
| BLADE                        | LMV9333N-5      | PCP:BLADE UNIT, ALUMINUM   | 3        | Prop    |                          |
| COUNTERWEIGHT SLUG A-619-6   |                 | SLUG, COUNTERWEIGHT        | 1        | Blade   |                          |
| COUNTERWEIGHT SLUG A-890-8   |                 | PCP:SLUG, COUNTERWEIGHT    | 1        | Blade   |                          |
| COUNTERWEIGHT SLUG B-3384-23 |                 | BOLT, 1/4-28, HEX HEAD     | 2        | Blade   |                          |
| COUNTERWEIGHT SLUG B-3808-4  |                 | NUT,HEX,SELF-LOCKING       | 2        | Blade   |                          |
| MTG BOLT/STUD                | A-63B           | PCP: NUT, SHAFT, 20 SPLINE | 1        | Prop    |                          |
| MTG BOLT/STUD                | A-63-B          | NUT,SHAFT,20 SPLINE        | 1        | Prop    |                          |
| OVERHAUL KIT                 | HC-A3MV20-3L-OH | O/H KIT                    | 1        | Prop    | For aftermarket use only |

### REPUBLIC (STOL AMPHIBIAN)

**Model:** RC-3  
**Trade Name:** SEABEE  
**Aircraft T.C./STC:** STC-SA282NW  
**Propeller Model:** HC-83VF-3L, HC-A3VF-3L  
**Propeller T.C.:** P6EA  
**Blade Model(s):** LV9333N-4  
**Prop Diameter:** 89" NO CUT-OFF

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** -15.0 +-0.5  
**Low Pitch Angle:** 17.0 +-0.1  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 2328      **Rev.:** -      **DM Date:** 11/23/2003

**Modifier:** STC Bee INC.  
**Engine Model:** GO-480-G2D6  
**Power:** 295 HP @ 2182 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 30.0 +-1.0  
**Cwt Angle:** 5.5 +-1.0

**Non-HPI Governor:**

#### Hartzell Approved Items:

| Item Type                    | Item Number | Description             | Quantity | Qty Per | Comments |
|------------------------------|-------------|-------------------------|----------|---------|----------|
| BLADE                        | LV9333N-4   | BLADE                   | 3        | Prop    |          |
| COUNTERWEIGHT SLUG A-619-6   |             | SLUG, COUNTERWEIGHT     | 1        | Blade   |          |
| COUNTERWEIGHT SLUG A-890-8   |             | PCP:SLUG, COUNTERWEIGHT | 1        | Blade   |          |
| COUNTERWEIGHT SLUG B-3384-23 |             | BOLT, 1/4-28, HEX HEAD  | 2        | Blade   |          |
| COUNTERWEIGHT SLUG B-3808-4  |             | NUT,HEX,SELF-LOCKING    | 2        | Blade   |          |
| MTG BOLT/STUD                | A-2983      | STUD, MOUNTING, 1/2-20  | 6        | Prop    |          |



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REPUBLIC (STOL AMPHIBIAN)

**Model:** RC-3  
**Trade Name:** SEABEE  
**Aircraft T.C./STC:** STC-SA3865SW  
**Propeller Model:** HC-83VF-3L, HC-A3VF-3L  
**Propeller T.C.:** P6EA  
**Blade Model(s):** LV9333N-5  
**Prop Diameter:** 89.0" TO 88.0"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** -15.0 +-0.5  
**Low Pitch Angle:** 17.0 +-0.1  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 2297 **Rev.:** - **DM Date:** 11/20/2003

**Modifier:** A. STEVEN HENSLEY  
**Engine Model:** GO-480-G2D6  
**Power:** 295 HP @ 2182 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 30.0 +-1.0  
**Cwt Angle:** 5.5 +-1.0

**Non-HPI Governor:**

### Hartzell Approved Items:

| Item Type                    | Item Number | Description             | Quantity | Qty Per | Comments |
|------------------------------|-------------|-------------------------|----------|---------|----------|
| BLADE                        | LV9333N-5   | BLADE                   | 3        | Prop    |          |
| COUNTERWEIGHT SLUG A-619-6   |             | SLUG, COUNTERWEIGHT     | 1        | Blade   |          |
| COUNTERWEIGHT SLUG A-890-8   |             | PCP:SLUG, COUNTERWEIGHT | 1        | Blade   |          |
| COUNTERWEIGHT SLUG B-3384-23 |             | BOLT, 1/4-28, HEX HEAD  | 2        | Blade   |          |
| COUNTERWEIGHT SLUG B-3808-4  |             | NUT,HEX,SELF-LOCKING    | 2        | Blade   |          |
| MTG BOLT/STUD                | A-2983      | STUD, MOUNTING, 1/2-20  | 6        | Prop    |          |

REPUBLIC (STOL AMPHIBIAN)

**Model:** RC-3  
**Trade Name:** SEABEE  
**Aircraft T.C./STC:** STC-SA282NW  
**Propeller Model:** HC-A3MVF-3L  
**Propeller T.C.:** P6EA  
**Blade Model(s):** LMV9333N-4  
**Prop Diameter:** 89" NO CUT-OFF

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** -15.0 +-0.5  
**Low Pitch Angle:** 17.0 +-0.1  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 1712 **Rev.:** 2 **IC Date:** 07/07/2015

**Modifier:** STC Bee INC.  
**Engine Model:** GO-480-G2D6  
**Power:** 295 HP @ 2182 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 30.0 +-1.0  
**Cwt Angle:** 5.5 +-1.0

**Non-HPI Governor:**

### Hartzell Approved Items:

| Item Type                    | Item Number    | Description              | Quantity | Qty Per | Comments                 |
|------------------------------|----------------|--------------------------|----------|---------|--------------------------|
| PROPELLER                    | A3F10106       | HC-A3MVF-3L/LMV9333N-4   | 1        | A/C     |                          |
| BLADE                        | LMV9333N-4     | PCP:BLADE UNIT, ALUMINUM | 3        | Prop    |                          |
| COUNTERWEIGHT SLUG A-619-6   |                | SLUG, COUNTERWEIGHT      | 1        | Blade   |                          |
| COUNTERWEIGHT SLUG A-890-8   |                | PCP:SLUG, COUNTERWEIGHT  | 1        | Blade   |                          |
| COUNTERWEIGHT SLUG B-3384-23 |                | BOLT, 1/4-28, HEX HEAD   | 2        | Blade   |                          |
| COUNTERWEIGHT SLUG B-3808-4  |                | NUT,HEX,SELF-LOCKING     | 2        | Blade   |                          |
| MTG BOLT/STUD                | A-2983         | STUD, MOUNTING, 1/2-20   | 6        | Prop    |                          |
| OVERHAUL KIT                 | HC-A3MVF-3L-OH | O/H KIT                  | 1        | Prop    | For aftermarket use only |

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REPUBLIC (STOL AMPHIBIAN)

**Model:** RC-3  
**Trade Name:** SEABEE  
**Aircraft T.C./STC:** STC-SA3865SW  
**Propeller Model:** HC-A3MVF-3L  
**Propeller T.C.:** P6EA  
**Blade Model(s):** LMV9333N-5  
**Prop Diameter:** 89.0" TO 88.0"

**IDS No.:** 1400      **Rev.:** 2      **IC Date:** 07/07/2015

**Modifier:** A. STEVEN HENSLEY  
**Engine Model:** GO-480-G2D6  
**Power:** 295 HP @ 2182 RPM  
**Placard/Restr:**  
**Notes:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** -15.0 +-0.5  
**Low Pitch Angle:** 17.0 +-0.1  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 30.0 +-1.0  
**Cwt Angle:** 5.5 +-1.0

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type                    | Item Number    | Description              | Quantity | Qty Per | Comments                 |
|------------------------------|----------------|--------------------------|----------|---------|--------------------------|
| PROPELLER                    | A3F10105       | HC-A3MVF-3L/LMV9333N-5   | 1        | A/C     |                          |
| BLADE                        | LMV9333N-5     | PCP:BLADE UNIT, ALUMINUM | 3        | Prop    |                          |
| COUNTERWEIGHT SLUG A-619-6   |                | SLUG, COUNTERWEIGHT      | 1        | Blade   |                          |
| COUNTERWEIGHT SLUG A-890-8   |                | PCP:SLUG, COUNTERWEIGHT  | 1        | Blade   |                          |
| COUNTERWEIGHT SLUG B-3384-23 |                | BOLT, 1/4-28, HEX HEAD   | 2        | Blade   |                          |
| COUNTERWEIGHT SLUG B-3808-4  |                | NUT,HEX,SELF-LOCKING     | 2        | Blade   |                          |
| MTG BOLT/STUD                | A-2983         | STUD, MOUNTING, 1/2-20   | 6        | Prop    |                          |
| OVERHAUL KIT                 | HC-A3MVF-3L-OH | O/H KIT                  | 1        | Prop    | For aftermarket use only |

REPUBLIC (STOL AMPHIBIAN)

**Model:** RC-3  
**Trade Name:** SEABEE  
**Aircraft T.C./STC:** STC-SA5652NM  
**Propeller Model:** HC-E3YR-7LF  
**Propeller T.C.:** P33EA  
**Blade Model(s):** FLC8468-4R  
**Prop Diameter:** 82"

**IDS No.:** 920      **Rev.:** -      **DM Date:** 04/05/2010

**Modifier:** T.A.C. INC.  
**Engine Model:** IO-540-K1B5  
**Power:** 300 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:** B-4270 control unit

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** -14.0 +-0.5  
**Low Pitch Angle:** 15.0 +-0.2  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 26.0 +-1.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type     | Item Number | Description              | Quantity | Qty Per | Comments        |
|---------------|-------------|--------------------------|----------|---------|-----------------|
| BLADE         | FLC8468-4R  | PCP:BLADE UNIT, ALUMINUM | 3        | Prop    |                 |
| COUNTERWEIGHT | B-3202H-1   | PCP:COUNTERWEIGHT        | 1        | Blade   | Blade Component |
| MTG BOLT/STUD | A-2067      | STUD, MOUNTING, 1/2-20   | 6        | Prop    |                 |

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### REPUBLIC (STOL AMPIBIAN)

**Model:** RC-3  
**Trade Name:** SEABEE  
**Aircraft T.C./STC:** STC-SA615NW  
**Propeller Model:** HC-A3V20-3L  
**Propeller T.C.:** P6EA  
**Blade Model(s):** LV9333N-4  
**Prop Diameter:**

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** -15.0 APPROX.  
**Low Pitch Angle:** 17.0 +-0.1  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

#### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u> | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|--------------------|-----------------|----------------|-----------------|
| BLADE            | LV9333N-4          | BLADE              | 3               | Prop           |                 |

**IDS No.:** 2403      **Rev.:** -      **DM Date:** 12/01/2003

**Modifier:** SIM-U-FLIGHT  
**Engine Model:** (I)G(S)O-480 SERIES  
**Power:** HP @ RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 30.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

### REPUBLIC (STOL AMPIBIAN)

**Model:** RC-3  
**Trade Name:** SEABEE  
**Aircraft T.C./STC:** STC-SA615NW  
**Propeller Model:** HC-A3V20-3L  
**Propeller T.C.:** P6EA  
**Blade Model(s):** LV9333N-5  
**Prop Diameter:**

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** .15.0 APPROX.  
**Low Pitch Angle:** 17.0 +-0.1  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

#### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u> | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|--------------------|-----------------|----------------|-----------------|
| BLADE            | LV9333N-5          | BLADE              | 3               | Prop           |                 |

**IDS No.:** 2404      **Rev.:** -      **DM Date:** 12/01/2003

**Modifier:** SIM-U-FLIGHT  
**Engine Model:** (I)G(S)O-480 SERIES  
**Power:** HP @ RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 30.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

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### REPUBLIC (STOL AMPIBIAN)

**Model:** RC-3  
**Trade Name:** SEABEE  
**Aircraft T.C./STC:** STC-SA615NW  
**Propeller Model:** HC-A3V20-3L  
**Propeller T.C.:** P6EA  
**Blade Model(s):** LV9333N-4  
LV9333N-5  
**Prop Diameter:** 89.6"

#### Prop Setup:

**Ref. Radius:**  
**Reverse Angle:**  
**Low Pitch Angle:**  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:** NONE

#### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u> | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|--------------------|-----------------|----------------|-----------------|
| BLADE            | LV9333N-4          | BLADE              | 3               | Prop           |                 |
| BLADE            | LV9333N-5          | BLADE              | 3               | Prop           |                 |

**IDS No.:** 2405      **Rev.:** -      **DM Date:** 12/01/2003

**Modifier:** SIM-U-FLIGHT  
**Engine Model:** IGSO-540-A1B6  
**Power:** 340 HP @ 2182 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:**  
**Feather/High Angle:**  
**Cwt Angle:**

**Non-HPI Governor:**

### REPUBLIC (STOL AMPIBIAN)

**Model:** RC-3  
**Trade Name:** SEABEE  
**Aircraft T.C./STC:** FIELD APPROVAL  
**Propeller Model:** HC-A2X20-5L  
**Propeller T.C.:** P908  
**Blade Model(s):**  
**Prop Diameter:**

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** -14.0 +-0.5  
**Low Pitch Angle:** 13.0 +-0.2  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

#### Hartzell Approved Items:

**IDS No.:** 2401      **Rev.:** -      **DM Date:** 12/08/2003

**Modifier:**  
**Engine Model:** IO-470-P  
**Power:** HP @ RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 27.5 +-0.5  
**Cwt Angle:**

**Non-HPI Governor:**

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### REPUBLIC (STOL AMPIBIAN)

**Model:** RC-3  
**Trade Name:** SEABEE  
**Aircraft T.C./STC:** FIELD APPROVAL  
**Propeller Model:** HC-A2V20-5L  
**Propeller T.C.:** P24EA  
**Blade Model(s):** LV8433N  
**Prop Diameter:**

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** -14.0 +-0.5  
**Low Pitch Angle:** 13.0 +-0.2  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

#### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u> | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|--------------------|-----------------|----------------|-----------------|
| BLADE            | LV8433N            | BLADE              | 2               | Prop           |                 |

**IDS No.:** 2402      **Rev.:** -      **DM Date:** 12/01/2003

**Modifier:**  
**Engine Model:** IO-470-P  
**Power:** HP @ RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 27.5 +-0.5  
**Cwt Angle:**

**Non-HPI Governor:**

### REPUBLIC (STOL AMPIBIAN)

**Model:** RC-3  
**Trade Name:** SEABEE  
**Aircraft T.C./STC:** Unknown  
**Propeller Model:** HC-A3V20-3L  
**Propeller T.C.:** P6EA  
**Blade Model(s):**  
**Prop Diameter:**

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** -15.5 +-0.5  
**Low Pitch Angle:** 14.0 +-0.5  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

#### Hartzell Approved Items:

**IDS No.:** 2406      **Rev.:** -      **DM Date:** 12/01/2003

**Modifier:**  
**Engine Model:** GO-480-G2D6  
**Power:** 340 HP @ 2182 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 29.0 +-0.5  
**Cwt Angle:**

**Non-HPI Governor:**

# HARTZELL

## APPLICATION GUIDE

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REVO

**Model:** see LAKE, COLONIAL

**Trade Name:**

**Aircraft T.C./STC:**

**Propeller Model:**

**Propeller T.C.:**

**Blade Model(s):**

**Prop Diameter:**

### Prop Setup:

**Ref. Radius:**

**Reverse Angle:**

**Low Pitch Angle:**

**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

### Hartzell Approved Items:

**IDS No.:** 921

**Rev.:** -

**DM Date:** 10/01/1992

**Modifier:**

**Engine Model:**

**Power:** HP @ RPM

**Placard/Restr:**

**Notes:**

**Startlock Angle:**

**Feather/High Angle:**

**Cwt Angle:**

**Non-HPI Governor:**

REVO (COLONIAL)

**Model:** C-2

**Trade Name:** COLONIAL SKIMMER

**Aircraft T.C./STC:** 1A13

**Propeller Model:** HC-92ZK-6DL-1

**Propeller T.C.:** P-892

**Blade Model(s):** L8447-12A  
L8447N-12A

**Prop Diameter:** 72" TO 70.5"

### Prop Setup:

**Ref. Radius:** 30

**Reverse Angle:** NA

**Low Pitch Angle:** 11.5 +-0.2

**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

### Hartzell Approved Items:

**IDS No.:** 1579

**Rev.:** -

**DM Date:** 06/06/2006

**Modifier:**

**Engine Model:** O-360-A1A

**Power:** 180 HP @ 2700 RPM

**Placard/Restr:**

**Notes:**

**Startlock Angle:** NA

**Feather/High Angle:** 23.4 +-0.5

**Cwt Angle:**

**Non-HPI Governor:** WOODWARD

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u> | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|--------------------|-----------------|----------------|-----------------|
| BLADE            | L8447-12A          | IDS Item           | 2               | Prop           |                 |
| BLADE            | L8447N-12A         | IDS Item           | 2               | Prop           |                 |
| SPINNER          | 835-30             | SPINNER ASSEMBLY   | 1               | Prop           |                 |

# HARTZELL

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### REVO (COLONIAL)

**Model:** C-2  
**Trade Name:** COLONIAL SKIMMER  
**Aircraft T.C./STC:** 1A13  
**Propeller Model:** HC-92WK-8L  
**Propeller T.C.:** P16EA  
**Blade Model(s):** LW8447-12A  
LW8447N-12A  
**Prop Diameter:** 72" TO 70.5"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 11.5 +- 0.2  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 446      **Rev.:** 1      **IC Date:** 07/06/2015

**Modifier:**

**Engine Model:** O-360-A1A

**Power:** 180 HP @ 2700 RPM

**Placard/Restr:**

**Notes:** TC doesn't specify angular tolerance. Min HP angle corresponds to TC.

**Startlock Angle:** NA

**Feather/High Angle:** 25.4 +- 2.0

**Cwt Angle:**

**Non-HPI Governor:** WOODWARD

#### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>       | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|--------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | 92K00131           | HC-92WK-8L/LW8447N-12A   | 1               | A/C            |                          |
| BLADE            | LW8447-12A         | BLADE UNIT, ALUMINUM     | 2               | Prop           | REPLACED BY LW8447N-12A  |
| BLADE            | LW8447N-12A        | PCP:BLADE UNIT, ALUMINUM | 2               | Prop           |                          |
| SPINNER          | 835-30             | SPINNER ASSEMBLY         | 1               | Prop           |                          |
| OVERHAUL KIT     | HC-92WK-8L-OH      | O/H KIT                  | 1               | Prop           | For aftermarket use only |

### ROCKWELL

**Model:** see AERO COMMANDER  
**Trade Name:**  
**Aircraft T.C./STC:**  
**Propeller Model:**  
**Propeller T.C.:**  
**Blade Model(s):**  
**Prop Diameter:**

#### Prop Setup:

**Ref. Radius:**  
**Reverse Angle:**  
**Low Pitch Angle:**  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

#### Hartzell Approved Items:

**IDS No.:** 922      **Rev.:** -      **DM Date:** 10/01/1992

**Modifier:**

**Engine Model:**

**Power:** HP @ RPM

**Placard/Restr:**

**Notes:**

**Startlock Angle:**

**Feather/High Angle:**

**Cwt Angle:**

**Non-HPI Governor:**

# HARTZELL

## APPLICATION GUIDE 159

ROCKWELL

IDS No.: 2012      Rev.: 4      IC      Date: 01/27/2020  
 Modifier: MARSH AVIATION  
 Engine Model: T76-G-418M  
 Power: 840 HP @ 2000 RPM  
 Placard/Restr: Stabilized operation prohibited between 68% (1360) and 82% (1640) RPM.

Model: OV-10 (left side)  
 Trade Name: BRONCO  
 Aircraft T.C./STC: UNKNOWN  
 Propeller Model: HC-B4MN-5B  
 Propeller T.C.: P56GL

**Notes:**

Blade Model(s): M9990N  
 Prop Diameter: 100" TO 99"

**Prop Setup:**

Ref. Radius: 42  
 Reverse Angle: -16.0 +/-0.5  
 Low Pitch Angle: N/A  
 Stud Protrusion

Startlock Angle: -2.7+/-0.2  
 Feather/High Angle: 80.1 +/-0.5  
 Cwt Angle: Positive

**Non-HPI Items:**

Non-HPI Spinner:

Non-HPI Governor:

**Hartzell Approved Items:**

| Item Type                      | Item Number   | Description                       | Quantity | Qty Per | Comments                 |
|--------------------------------|---------------|-----------------------------------|----------|---------|--------------------------|
| PROPELLER                      | B4N20001      | HC-B4MN-5B/M9990N                 | 1        | A/C     |                          |
| PROPELLER                      | B4N20001S     | HC-B4MN-5B/M9990N/D-4846-1        | 1        | A/C     |                          |
| PROPELLER                      | B4N20015S     | HC-B4MN-5B/M9990N/100635          | 1        | A/C     |                          |
| PROPELLER                      | B4N20015SKD   | HC-B4MN-5B/M9990N/100635          | 1        | A/C     |                          |
| BLADE                          | M9990N        | PCP:BLADE UNIT, ALUMINUM          | 4        | Prop    |                          |
| SPINNER                        | 100635        | SPINNER ASSEMBLY                  | 1        | Prop    |                          |
| SPINNER                        | D-4846-1      | SPINNER ASSEMBLY                  | 1        | Prop    |                          |
| COUNTERWEIGHT SLUG A-890-9     |               | PCP:SLUG, COUNTERWEIGHT           | 1        | Blade   |                          |
| COUNTERWEIGHT SLUG B-3384-3H   |               | BOLT, 1/4-28, HEX HEAD            | 2        | Blade   |                          |
| COUNTERWEIGHT SLUG B-3386-14H  |               | BOLT,3/8-24,HEX HEAD              | 2        | Blade   |                          |
| COUNTERWEIGHT SLUG B-3834-0632 |               | WASHER                            | 2        | Blade   |                          |
| COUNTERWEIGHT SLUG C-6081      |               | PCP:SLUG, COUNTERWEIGHT           | 1        | Blade   |                          |
| MTG BOLT/STUD                  | B-3339        | BOLT, MOUNTING, 9/16-18, 12 POINT | 8        | Prop    |                          |
| OVERHAUL KIT                   | HC-B4MN-5B-OH | O/H KIT                           | 1        | Prop    | For aftermarket use only |



# HARTZELL

## APPLICATION GUIDE 159

ROCKWELL

IDS No.: 2013 Rev.: 4 IC Date: 01/27/2020

**Model:** OV-10 (right side)  
**Trade Name:** BRONCO  
**Aircraft T.C./STC:** Unknown  
**Propeller Model:** HC-B4MN-5BL  
**Propeller T.C.:** P56GL

**Modifier:** MARSH AVIATION  
**Engine Model:** T76-G-419M  
**Power:** 840 HP @ 2000 RPM  
**Placard/Restr:** Stabilized operation prohibited between 68% (1360) and 82% (1640) RPM.

**Blade Model(s):** LM9990N  
**Prop Diameter:** 100" to 99"

**Notes:**

**Prop Setup:**

**Ref. Radius:** 42  
**Reverse Angle:** -16 +/-0.5  
**Low Pitch Angle:** NA  
**Stud Protrusion**

**Startlock Angle:** -2.7 +/-0.2  
**Feather/High Angle:** 80.1 +/-0.5  
**Cwt Angle:** Positive

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u>               | <u>Item Number</u> | <u>Description</u>                | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|--------------------------------|--------------------|-----------------------------------|-----------------|----------------|--------------------------|
| PROPELLER                      | B4N20501           | HC-B4MN-5BL/LM9990N               | 1               | A/C            |                          |
| PROPELLER                      | B4N20501S          | HC-B4MN-5BL/LM9990N/D-4846-1      | 1               | A/C            |                          |
| PROPELLER                      | B4N20515S          | HC-B4MN-5BL/LM9990N/100635        | 1               | A/C            |                          |
| PROPELLER                      | B4N20515SKD        | HC-B4MN-5BL/LM9990N/100635        | 1               | A/C            |                          |
| BLADE                          | LM9990N            | PCP:BLADE UNIT, ALUMINUM          | 4               | Prop           |                          |
| SPINNER                        | 100635             | SPINNER ASSEMBLY                  | 1               | Prop           |                          |
| SPINNER                        | D-4846-1           | SPINNER ASSEMBLY                  | 1               | Prop           |                          |
| COUNTERWEIGHT SLUG A-890-9     |                    | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          |                          |
| COUNTERWEIGHT SLUG B-3384-3H   |                    | BOLT, 1/4-28, HEX HEAD            | 2               | Blade          |                          |
| COUNTERWEIGHT SLUG B-3386-14H  |                    | BOLT,3/8-24,HEX HEAD              | 2               | Blade          |                          |
| COUNTERWEIGHT SLUG B-3834-0632 |                    | WASHER                            | 2               | Blade          |                          |
| COUNTERWEIGHT SLUG C-6081      |                    | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          |                          |
| MTG BOLT/STUD                  | B-3339             | BOLT, MOUNTING, 9/16-18, 12 POINT | 8               | Prop           |                          |
| OVERHAUL KIT                   | HC-B4MN-5BL-OH     | O/H KIT                           | 1               | Prop           | For aftermarket use only |

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# HARTZELL

## APPLICATION GUIDE 159

S.N.A. INC.

IDS No.: 1527      Rev.: 1      IC      Date: 07/16/2015

**Model:** SEAWIND  
**Trade Name:**  
**Aircraft T.C./STC:** Experimental  
**Propeller Model:** HC-E3YR-1RF  
**Propeller T.C.:** P33EA  
**Blade Model(s):** F8468A-10Q  
**Prop Diameter:** 76"

**Modifier:** A.C.E.AVIATION, INC.  
**Engine Model:** TIO-540-J2BD  
**Power:** 350 HP @ 2575 RPM  
**Placard/Restr:**  
**Notes:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 15.3 +-0.2  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 30.5 +-1.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type     | Item Number    | Description                  | Quantity | Qty Per | Comments                 |
|---------------|----------------|------------------------------|----------|---------|--------------------------|
| PROPELLER     | E3R00027       | HC-E3YR-1RF/F8468A-10Q/SM9   | 0        |         |                          |
| BLADE         | F8468A-10Q     | PCP:BLADE UNIT, ALUM [1,1,1] | 3        | Prop    |                          |
| SPINNER       | C-3535-1       | SPINNER ASSEMBLY             | 1        | Prop    |                          |
| SPINNER       | C-3535-1P      | SPINNER ASSEMBLY             | 1        | Prop    |                          |
| GOVERNOR      | F4-13          | GOVERNOR ASSEMBLY, F-4-( )   | 1        | A/C     |                          |
| SPIN MTG KIT  | A-2476-9       | SPINNER - MTG KIT            | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2067         | STUD, MOUNTING, 1/2-20       | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-E3YR-1RF-OH | O/H KIT                      | 1        | Prop    | For aftermarket use only |

S.N.A. INC.

IDS No.: 1200      Rev.: 1      IC      Date: 07/16/2015

**Model:** SEAWIND  
**Trade Name:**  
**Aircraft T.C./STC:** Experimental  
**Propeller Model:** HC-E3YR-1RF  
**Propeller T.C.:** P33EA  
**Blade Model(s):** F8468A-10Q  
    F8468A-8R  
**Prop Diameter:** 76" TO 78"

**Modifier:**  
**Engine Model:** IO-540-K1G5  
**Power:** 300 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 11.4 +-0.2  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 30.5 +-1.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type     | Item Number    | Description                  | Quantity | Qty Per | Comments                 |
|---------------|----------------|------------------------------|----------|---------|--------------------------|
| PROPELLER     | E3R00011       | HC-E3YR-1RF/F8468A-10Q/SM9   | 1        | A/C     |                          |
| BLADE         | F8468A-10Q     | PCP:BLADE UNIT, ALUM [1,1,1] | 3        | Prop    |                          |
| BLADE         | F8468A-8R      | PCP:BLADE UNIT, ALUM [1,1,1] | 3        | Prop    |                          |
| SPINNER       | C-3535-1       | SPINNER ASSEMBLY             | 1        | Prop    |                          |
| SPINNER       | C-3535-1P      | SPINNER ASSEMBLY             | 1        | Prop    |                          |
| SPIN MTG KIT  | A-2476-9       | SPINNER - MTG KIT            | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2067         | STUD, MOUNTING, 1/2-20       | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-E3YR-1RF-OH | O/H KIT                      | 1        | Prop    | For aftermarket use only |

# HARTZELL

## APPLICATION GUIDE 159

S.N.A. INC.

IDS No.: 1346 Rev.: 1 IC Date: 07/16/2015

**Model:** SEAWIND  
**Trade Name:**  
**Aircraft T.C./STC:** Experimental  
**Propeller Model:** HC-E3YR-1RF  
**Propeller T.C.:** P33EA  
**Blade Model(s):** F8468-10R  
**Prop Diameter:** 76"

**Modifier:**  
**Engine Model:** IO-540-K1G5  
**Power:** 300 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.7 +-0.2  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 30.5 +-1.0  
**Cwt Angle:**

### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| Item Type     | Item Number    | Description               | Quantity | Qty Per | Comments                 |
|---------------|----------------|---------------------------|----------|---------|--------------------------|
| PROPELLER     | E3R00013       | HC-E3YR-1RF/F8468-10R/SM9 | 1        | A/C     |                          |
| BLADE         | F8468-10R      | PCP:BLADE UNIT, ALUMINUM  | 3        | Prop    |                          |
| SPINNER       | C-3535-1       | SPINNER ASSEMBLY          | 1        | Prop    |                          |
| SPINNER       | C-3535-1P      | SPINNER ASSEMBLY          | 1        | Prop    |                          |
| SPIN MTG KIT  | A-2476-9       | SPINNER - MTG KIT         | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2067         | STUD, MOUNTING, 1/2-20    | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-E3YR-1RF-OH | O/H KIT                   | 1        | Prop    | For aftermarket use only |

S.N.A. INC.

IDS No.: 1347 Rev.: 1 IC Date: 07/16/2015

**Model:** SEAWIND  
**Trade Name:**  
**Aircraft T.C./STC:** Experimental  
**Propeller Model:** HC-E3YR-1RF  
**Propeller T.C.:** P33EA  
**Blade Model(s):** F8468A-12Q  
**Prop Diameter:** 74"

**Modifier:**  
**Engine Model:** IO-540-K1G5  
**Power:** 300 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.2 +-0.2  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 31.0 +-1.0  
**Cwt Angle:**

### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| Item Type     | Item Number    | Description                  | Quantity | Qty Per | Comments                 |
|---------------|----------------|------------------------------|----------|---------|--------------------------|
| PROPELLER     | E3R00015       | HC-E3YR-1RF/F8468A-12Q/SM9   | 1        | A/C     |                          |
| BLADE         | F8468A-12Q     | PCP:BLADE UNIT, ALUM [1,1,1] | 3        | Prop    |                          |
| SPINNER       | C-3535-1       | SPINNER ASSEMBLY             | 1        | Prop    |                          |
| SPINNER       | C-3535-1P      | SPINNER ASSEMBLY             | 1        | Prop    |                          |
| SPIN MTG KIT  | A-2476-9       | SPINNER - MTG KIT            | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2067         | STUD, MOUNTING, 1/2-20       | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-E3YR-1RF-OH | O/H KIT                      | 1        | Prop    | For aftermarket use only |

# HARTZELL

## APPLICATION GUIDE

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### SAAB

**Model:** 91D SAFIR  
**Trade Name:**  
**Aircraft T.C./STC:** Unknown  
**Propeller Model:** HC-92ZK-8D  
**Propeller T.C.:** P892  
**Blade Model(s):** 8447A-12A  
8447AN-12A  
**Prop Diameter:** 72

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.0 +-0.2  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 1987      **Rev.:** -      **DM Date:** 07/10/2008

**Modifier:**  
**Engine Model:** O-360-A1A  
**Power:** 180 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:** Swedish TC NO. 9B/59

**Startlock Angle:** NA  
**Feather/High Angle:** 27.0 +-1.0  
**Cwt Angle:** NA

**Non-HPI Governor:**

#### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>            | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|-------------------------------|-----------------|----------------|-----------------|
| PROPELLER        | 92K00110           | HC-92ZK-8D/8447A-12A          | 1               | A/C            |                 |
| PROPELLER        | 92K10110           | HC-92ZK-8D/8447AN-12A         | 1               | A/C            |                 |
| BLADE            | 8447A-12A          | BLADE UNIT, ALUMINUM          | 2               | Prop           |                 |
| BLADE            | 8447AN-12A         | PCP:BLADE UNIT, ALUMINUM      | 2               | Prop           |                 |
| SPINNER          | 835-30             | SPINNER ASSEMBLY              | 1               | Prop           |                 |
| SPINNER          | 835-30P            | SPINNER ASSEMBLY              | 1               | Prop           |                 |
| GOVERNOR         | D1-5               | IDS Item                      | 1               | A/C            |                 |
| MTG BOLT/STUD    | A-1333             | BOLT,MOUNTING,1/2-20,HEX HEAD | 2               | Prop           |                 |
| MTG BOLT/STUD    | A-1333-3           | BOLT,MOUNTING,1/2-20,HEX HEAD | 2               | Prop           |                 |
| MTG BOLT/STUD    | A-1333-6           | BOLT,MOUNTING,1/2-20,HEX HEAD | 2               | Prop           |                 |

### SAAB-SCANIA AB

**Model:** MFI-15  
**Trade Name:** SAFARI/SUPPORTER  
**Aircraft T.C./STC:** Unknown  
**Propeller Model:** HC-C2YK-4BF  
**Propeller T.C.:** P-920  
**Blade Model(s):** FC7666A-2  
**Prop Diameter:** 74"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.5 +-0.1  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 923      **Rev.:** 1      **IC Date:** 07/07/2015

**Modifier:**  
**Engine Model:** IO-360-A1B6  
**Power:** 200 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 28.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

#### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>            | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|-------------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | C2K00570           | HC-C2YK-4BF/FC7666A-2         | 1               | A/C            |                          |
| BLADE            | FC7666A-2          | PCP:BLADE UNIT, B-3202H-6 CWT | 2               | Prop           |                          |
| COUNTERWEIGHT    | B-3202H-6          | PCP:COUNTERWEIGHT             | 1               | Blade          | Blade Component          |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20        | 6               | Prop           |                          |
| OVERHAUL KIT     | HC-C2YK-4BF-OH     | O/H KIT                       | 1               | Prop           | For aftermarket use only |

# HARTZELL

SAUNDERS

**Model:** see DEHAVILLAND

**Trade Name:**

**Aircraft T.C./STC:**

**Propeller Model:**

**Propeller T.C.:**

**Blade Model(s):**

**Prop Diameter:**

**Prop Setup:**

**Ref. Radius:**

**Reverse Angle:**

**Low Pitch Angle:**

**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

## APPLICATION GUIDE

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**IDS No.:** 926

**Rev.:** -

**DM Date:** 10/01/1992

**Modifier:**

**Engine Model:**

**Power:** HP @ RPM

**Placard/Restr:**

**Notes:**

**Startlock Angle:**

**Feather/High Angle:**

**Cwt Angle:**

**Non-HPI Governor:**

# HARTZELL

## APPLICATION GUIDE 159

**SCHWEIZER**

IDS No.: 3071      Rev.: 5      IC      Date: 08/17/2020

**Model:** G-164A, G-164B, G-164C  
**Trade Name:** Turbo Cat  
**Aircraft T.C./STC:** SA2444SW

**Modifier:** TURBINE CONVERSIONS  
**Engine Model:** PT6A-15AG, -20A, -28, -34, -34AG, -36, -41, -41G, -135, -135AG

**Propeller Model:** HC-B3TN-3D  
**Propeller T.C.:** P15EA  
**Blade Model(s):** T10282N  
 T10282N+4  
**Prop Diameter:** 106.5" to 100"

**Power:** 750 HP @ 2200 RPM  
**Placard/Restr:**  
**Notes:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** -8.0 +/- 0.5  
**Low Pitch Angle:** 20.5 +/-0.5  
**Stud Protrusion**

**Startlock Angle:**  
**Feather/High Angle:** 89.0 +/- 1.0  
**Cwt Angle:** Positive

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u>               | <u>Item Number</u> | <u>Description</u>                | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|--------------------------------|--------------------|-----------------------------------|-----------------|----------------|--------------------------|
| PROPELLER                      | B3N10470           | HC-B3TN-3D/T10282N+4              | 1               | A/C            |                          |
| PROPELLER                      | B3N10470S          | HC-B3TN-3D/T10282N+4/C-3065-P     | 1               | A/C            |                          |
| PROPELLER                      | B3N10491S          | HC-B3TN-3D/T10282N/C-3065-P       | 1               | A/C            |                          |
| PROPELLER                      | B3N10491SKD        | HC-B3TN-3D/T10282N/C-3065-P       | 1               | A/C            |                          |
| BLADE                          | T10282N            | PCP:BLADE UNIT, ALUMINUM          | 3               | Prop           |                          |
| BLADE                          | T10282N+4          | PCP:BLADE UNIT, ALUM [1,1,1]      | 3               | Prop           |                          |
| SPINNER                        | C-3065-P           | SPINNER ASSEMBLY                  | 1               | Prop           |                          |
| SPIN MTG KIT                   | B-3384-4H          | BOLT, 1/4-28, HEX HEAD            | 12              | Prop           |                          |
| SPIN MTG KIT                   | B-3808-4           | NUT,HEX,SELF-LOCKING              | 12              | Prop           |                          |
| SPIN MTG KIT                   | B-3851-0432        | WASHER                            | 24              | Prop           |                          |
| COUNTERWEIGHT SLUG A-3039      |                    | SLUG, COUNTERWEIGHT               | 1               | Blade          |                          |
| COUNTERWEIGHT SLUG A-890-6     |                    | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          | Primary                  |
| COUNTERWEIGHT SLUG A-890-8     |                    | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          | Alternate                |
| COUNTERWEIGHT SLUG A-890-9     |                    | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          | Alternate                |
| COUNTERWEIGHT SLUG B-3384-21H  |                    | BOLT, 1/4-28, HEX HEAD            | 2               | Blade          |                          |
| COUNTERWEIGHT SLUG B-3851-0432 |                    | WASHER                            | 2               | Blade          | Optional                 |
| COUNTERWEIGHT SLUG B-3851-0463 |                    | WASHER                            | 2               | Blade          |                          |
| MTG BOLT/STUD                  | B-3339             | BOLT, MOUNTING, 9/16-18, 12 POINT | 8               | Prop           |                          |
| MISC ACCES                     | A-3044             | BLOCK, BETA FEEDBACK- ASSEMBLY    | 1               | Prop           |                          |
| OVERHAUL KIT                   | HC-B3TN-3D-OH      | O/H KIT                           | 1               | Prop           | For aftermarket use only |

# HARTZELL

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**SCHWEIZER (GRUMMAN)**

IDS No.: 927 Rev.: 1 D Date: 01/10/2011

Model: G-164  
 Trade Name: AG CAT  
 Aircraft T.C./STC: 1A16  
 Propeller Model: HC-B3Z20-1  
 Propeller T.C.: P-907  
 Blade Model(s): 10160-8  
 10160N-8  
 Prop Diameter: 93" NO CUT OFF

Modifier:  
 Engine Model: R755-A2M1  
 Power: 330 HP @ 2200 RPM  
 Placard/Restr:  
 Notes:

**Prop Setup:**

Ref. Radius: 30  
 Reverse Angle: NA  
 Low Pitch Angle: 12.5 +-0.2  
 Stud Protrusion

Startlock Angle: NA  
 Feather/High Angle: 28.3 +-0.5  
 Cwt Angle: Positive

**Non-HPI Items:**

Non-HPI Spinner:

Non-HPI Governor:

**Hartzell Approved Items:**

| Item Type | Item Number | Description      | Quantity | Qty Per | Comments |
|-----------|-------------|------------------|----------|---------|----------|
| BLADE     | 10160-8     | IDS Item         | 3        | Prop    |          |
| BLADE     | 10160N-8    | IDS Item         | 3        | Prop    |          |
| SPINNER   | 836-15R     | SPINNER ASSEMBLY | 1        | Prop    |          |
| GOVERNOR  | G1          | IDS Item         | 1        | A/C     |          |

**SCHWEIZER (GRUMMAN)**

IDS No.: 931 Rev.: 3 IC Date: 01/27/2020

Model: G-164  
 Trade Name: AG CAT  
 Aircraft T.C./STC: STC-SA4127WE  
 Propeller Model: HC-B3TN-5C  
 Propeller T.C.: P15EA  
 Blade Model(s): T10282+4  
 T10282N+4  
 Prop Diameter: 106.5" TO 102.0"

Modifier: FLOYD STILWELL  
 Engine Model: TPE331-1-101Z  
 Power: 600 HP @ 2000 RPM  
 Placard/Restr:  
 Notes:

**Prop Setup:**

Ref. Radius: 30  
 Reverse Angle: -8.0 +-0.5  
 Low Pitch Angle:  
 Stud Protrusion

Startlock Angle: 2.0 +-0.2  
 Feather/High Angle: 81.0 +-0.5  
 Cwt Angle: Positive

**Non-HPI Items:**

Non-HPI Spinner:

Non-HPI Governor:

**Hartzell Approved Items:**

| Item Type                      | Item Number | Description                       | Quantity | Qty Per | Comments  |
|--------------------------------|-------------|-----------------------------------|----------|---------|-----------|
| BLADE                          | T10282+4    | BLADE                             | 3        | Prop    |           |
| BLADE                          | T10282N+4   | PCP:BLADE UNIT, ALUM [1,1,1]      | 3        | Prop    |           |
| COUNTERWEIGHT SLUG A-3039      |             | SLUG, COUNTERWEIGHT               | 1        | Blade   |           |
| COUNTERWEIGHT SLUG A-890-6     |             | PCP:SLUG, COUNTERWEIGHT           | 1        | Blade   | Primary   |
| COUNTERWEIGHT SLUG A-890-8     |             | PCP:SLUG, COUNTERWEIGHT           | 1        | Blade   | Alternate |
| COUNTERWEIGHT SLUG A-890-9     |             | PCP:SLUG, COUNTERWEIGHT           | 1        | Blade   | Alternate |
| COUNTERWEIGHT SLUG B-3384-21H  |             | BOLT, 1/4-28, HEX HEAD            | 2        | Blade   |           |
| COUNTERWEIGHT SLUG B-3851-0432 |             | WASHER                            | 2        | Blade   | Optional  |
| COUNTERWEIGHT SLUG B-3851-0463 |             | WASHER                            | 2        | Blade   | Optional  |
| MTG BOLT/STUD                  | B-3339      | BOLT, MOUNTING, 9/16-18, 12 POINT | 8        | Prop    |           |



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SCHWEIZER (GRUMMAN)

IDS No.: 930      Rev.: 3      IC      Date: 01/27/2020

**Model:** G-164  
**Trade Name:** AG CAT  
**Aircraft T.C./STC:** STC-SA7966SW  
**Propeller Model:** HC-B3TN-5C  
**Propeller T.C.:** P15EA  
**Blade Model(s):** T10282+4  
                           T10282N+4  
**Prop Diameter:** 106.5" TO 102.0"

**Modifier:** S & R AIRCRAFT  
**Engine Model:** TPE331-1-101Z  
**Power:** 600 HP @ 2000 RPM  
**Placard/Restr:**  
**Notes:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** -10.0 +-0.5  
**Low Pitch Angle:**  
**Stud Protrusion**

**Startlock Angle:** -4.4 +-0.1  
**Feather/High Angle:** 78.0 +-0.5  
**Cwt Angle:** Positive

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u>               | <u>Item Number</u> | <u>Description</u>                | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|--------------------------------|--------------------|-----------------------------------|-----------------|----------------|-----------------|
| BLADE                          | T10282+4           | BLADE                             | 3               | Prop           |                 |
| BLADE                          | T10282N+4          | PCP:BLADE UNIT, ALUM [1,1,1]      | 3               | Prop           |                 |
| COUNTERWEIGHT SLUG A-3039      |                    | SLUG, COUNTERWEIGHT               | 1               | Blade          |                 |
| COUNTERWEIGHT SLUG A-890-6     |                    | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          | Primary         |
| COUNTERWEIGHT SLUG A-890-8     |                    | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          | Alternate       |
| COUNTERWEIGHT SLUG A-890-9     |                    | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          | Alternate       |
| COUNTERWEIGHT SLUG B-3384-21H  |                    | BOLT, 1/4-28, HEX HEAD            | 2               | Blade          |                 |
| COUNTERWEIGHT SLUG B-3851-0432 |                    | WASHER                            | 2               | Blade          | Optional        |
| COUNTERWEIGHT SLUG B-3851-0463 |                    | WASHER                            | 2               | Blade          | Optional        |
| MTG BOLT/STUD                  | B-3339             | BOLT, MOUNTING, 9/16-18, 12 POINT | 8               | Prop           |                 |

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SCHWEIZER (GRUMMAN)

**Model:** G-164  
**Trade Name:** AG CAT  
**Aircraft T.C./STC:** STC-SA7769SW  
**Propeller Model:** HC-B3TN-5D, -5E  
**Propeller T.C.:** P15EA  
**Blade Model(s):** T10282  
T10282N  
**Prop Diameter:** 102" TO 96.0"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** -9.65 +0.35  
**Low Pitch Angle:**  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 933      **Rev.:** -      **DM Date:** 01/09/2004

**Modifier:** JOE PEACOCK  
**Engine Model:** TPE331-25( ), -43, -47, -55, -57, -61  
**Power:** 575 HP @ 2000 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** 2.0 +-0.2  
**Feather/High Angle:** 87.0 +-0.5  
**Cwt Angle:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u>               | <u>Item Number</u> | <u>Description</u>                | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|--------------------------------|--------------------|-----------------------------------|-----------------|----------------|-----------------|
| BLADE                          | T10282             | BLADE                             | 3               | Prop           |                 |
| BLADE                          | T10282N            | PCP:BLADE UNIT, ALUMINUM          | 3               | Prop           |                 |
| COUNTERWEIGHT SLUG A-3039      |                    | SLUG, COUNTERWEIGHT               | 1               | Blade          |                 |
| COUNTERWEIGHT SLUG A-890-6     |                    | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          |                 |
| COUNTERWEIGHT SLUG B-3384-21H  |                    | BOLT, 1/4-28, HEX HEAD            | 2               | Blade          |                 |
| COUNTERWEIGHT SLUG B-3851-0463 |                    | WASHER                            | 2               | Blade          |                 |
| MTG BOLT/STUD                  | B-3339             | BOLT, MOUNTING, 9/16-18, 12 POINT | 8               | Prop           |                 |

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SCHWEIZER (GRUMMAN)

IDS No.: 934 Rev.: 3 IC Date: 01/27/2020

**Model:** G-164  
**Trade Name:** AG CAT  
**Aircraft T.C./STC:** STC-SA7987SW  
**Propeller Model:** HC-B3TN-5E, -5M  
**Propeller T.C.:** P15EA  
**Blade Model(s):** T10282+4  
                           T10282N+4  
**Prop Diameter:** 106.5" TO 101.0"

**Modifier:** AGRI-JET POWER  
**Engine Model:** TPE331-6-252  
**Power:** 600 HP @ 2000 RPM  
**Placard/Restr:**  
**Notes:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** -8.0 +-0.5  
**Low Pitch Angle:**  
**Stud Protrusion**

**Startlock Angle:** 2.0 +-0.2  
**Feather/High Angle:** 81.0 +-0.5  
**Cwt Angle:** Positive

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u>               | <u>Item Number</u> | <u>Description</u>                | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|--------------------------------|--------------------|-----------------------------------|-----------------|----------------|-----------------|
| BLADE                          | T10282+4           | BLADE                             | 3               | Prop           |                 |
| BLADE                          | T10282N+4          | PCP:BLADE UNIT, ALUM [1,1,1]      | 3               | Prop           |                 |
| SPINNER                        | C-3043-2           | SPINNER ASSEMBLY                  | 1               | Prop           |                 |
| SPINNER                        | D-3434             | SPINNER ASSEMBLY                  | 1               | Prop           |                 |
| COUNTERWEIGHT SLUG A-3039      |                    | SLUG, COUNTERWEIGHT               | 1               | Blade          |                 |
| COUNTERWEIGHT SLUG A-890-6     |                    | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          | Primary         |
| COUNTERWEIGHT SLUG A-890-8     |                    | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          | Alternate       |
| COUNTERWEIGHT SLUG A-890-9     |                    | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          | Alternate       |
| COUNTERWEIGHT SLUG B-3384-21H  |                    | BOLT, 1/4-28, HEX HEAD            | 2               | Blade          |                 |
| COUNTERWEIGHT SLUG B-3851-0432 |                    | WASHER                            | 2               | Blade          | Optional        |
| COUNTERWEIGHT SLUG B-3851-0463 |                    | WASHER                            | 2               | Blade          | Optional        |
| MTG BOLT/STUD                  | B-3339             | BOLT, MOUNTING, 9/16-18, 12 POINT | 8               | Prop           |                 |

# HARTZELL

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SCHWEIZER (GRUMMAN)

IDS No.: 929 Rev.: 2 D Date: 06/04/2013

Model: G-164A, G-164B  
Trade Name: AG CAT  
Aircraft T.C./STC: STC-SA1377GL

Modifier: TURBINES INC.  
Engine Model: PT6A-  
(6B,15AG,20,20A,20B,6/C20,21,27,28,34,34  
AG,135)

Propeller Model: HC-B3TN-3C, -3D, -3K  
Propeller T.C.: P15EA  
Blade Model(s): T10282+4  
T10282N+4  
Prop Diameter: 106.5" TO 100.5"

Power: 550 HP @ 2000 RPM  
Placard/Restr:  
Notes:

### Prop Setup:

Ref. Radius: 30  
Reverse Angle: -8.0 +-0.5  
Low Pitch Angle: 18.0 +-0.1  
Stud Protrusion

Startlock Angle: NA  
Feather/High Angle: 90.0 +-0.5  
Cwt Angle: Positive

### Non-HPI Items:

Non-HPI Spinner:

Non-HPI Governor:

### Hartzell Approved Items:

| Item Type                      | Item Number | Description                       | Quantity | Qty Per | Comments  |
|--------------------------------|-------------|-----------------------------------|----------|---------|-----------|
| PROPELLER                      | B3N10449S   | HC-B3TN-3D/T10282N+4/C3065-P      | 1        | A/C     |           |
| PROPELLER                      | B3N10450    | HC-B3TN-3D/T10282N+4              | 1        | A/C     |           |
| BLADE                          | T10282+4    | BLADE                             | 3        | Prop    |           |
| BLADE                          | T10282N+4   | PCP:BLADE UNIT, ALUM [1,1,1]      | 3        | Prop    |           |
| SPINNER                        | C-3065-P    | SPINNER ASSEMBLY                  | 1        | Prop    |           |
| SPIN MTG KIT                   | B-3384-4H   | BOLT, 1/4-28, HEX HEAD            | 12       | Prop    |           |
| SPIN MTG KIT                   | B-3808-4    | NUT,HEX,SELF-LOCKING              | 12       | Prop    |           |
| SPIN MTG KIT                   | B-3851-0432 | WASHER                            | 24       | Prop    |           |
| COUNTERWEIGHT SLUG A-3039      |             | SLUG, COUNTERWEIGHT               | 1        | Blade   |           |
| COUNTERWEIGHT SLUG A-890-6     |             | PCP:SLUG, COUNTERWEIGHT           | 1        | Blade   | Primary   |
| COUNTERWEIGHT SLUG A-890-8     |             | PCP:SLUG, COUNTERWEIGHT           | 1        | Blade   | Alternate |
| COUNTERWEIGHT SLUG A-890-9     |             | PCP:SLUG, COUNTERWEIGHT           | 1        | Blade   | Alternate |
| COUNTERWEIGHT SLUG B-3384-21H  |             | BOLT, 1/4-28, HEX HEAD            | 2        | Blade   |           |
| COUNTERWEIGHT SLUG B-3851-0432 |             | WASHER                            | 2        | Blade   | Optional  |
| COUNTERWEIGHT SLUG B-3851-0463 |             | WASHER                            | 2        | Blade   | Optional  |
| MTG BOLT/STUD                  | B-3339      | BOLT, MOUNTING, 9/16-18, 12 POINT | 8        | Prop    |           |

# HARTZELL

## APPLICATION GUIDE 159

### SEQUOIA AIRCRAFT

**Model:** FALCO F.8.L  
**Trade Name:**  
**Aircraft T.C./STC:** Unknown  
**Propeller Model:** HC-C2YL-1BF  
**Propeller T.C.:** P-920  
**Blade Model(s):** F7663A-4  
**Prop Diameter:** 72.0" TO 70.0"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.0 +-0.2  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

#### Hartzell Approved Items:

| Item Type     | Item Number    | Description                    | Quantity | Qty Per | Comments                 |
|---------------|----------------|--------------------------------|----------|---------|--------------------------|
| PROPELLER     | C2L00050       | HC-C2YL-1BF/F7663A-4/SM19      | 1        | A/C     |                          |
| BLADE         | F7663A-4       | PCP:BLADE UNIT, ALUMINUM       | 2        | Prop    |                          |
| SPINNER       | A-2298-2       | SPINNER ASSEMBLY               | 1        | Prop    |                          |
| SPINNER       | A-2298-2P      | SPINNER ASSEMBLY               | 1        | Prop    |                          |
| SPIN MTG KIT  | A-2476-19      | SPINNER - MTG KIT              | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2247-1       | STUD, MOUNTING,7/16-20,DRILLED | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-C2YL-1BF-OH | O/H KIT                        | 1        | Prop    | For aftermarket use only |

**IDS No.:** 1168      **Rev.:** 1      **IC Date:** 07/07/2015

**Modifier:**  
**Engine Model:** IO-320-B1A  
**Power:** 160 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:** Prop diameter due to vibration limit

**Startlock Angle:** NA  
**Feather/High Angle:** 30.0 +-0.5  
**Cwt Angle:**

**Non-HPI Governor:**

### SEQUOIA AIRCRAFT

**Model:** FALCO F.8.L  
**Trade Name:**  
**Aircraft T.C./STC:** Unknown  
**Propeller Model:** HC-C2YK-1BF  
**Propeller T.C.:** P-920  
  
**Blade Model(s):** F7666A-2  
**Prop Diameter:** 74"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.0 +-0.2  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

#### Hartzell Approved Items:

| Item Type     | Item Number    | Description               | Quantity | Qty Per | Comments                 |
|---------------|----------------|---------------------------|----------|---------|--------------------------|
| PROPELLER     | C2K00046       | HC-C2YK-1BF/F7666A-2/SM19 | 1        | A/C     |                          |
| BLADE         | F7666A-2       | PCP:BLADE UNIT, ALUMINUM  | 2        | Prop    |                          |
| SPINNER       | A-2298-2       | SPINNER ASSEMBLY          | 1        | Prop    |                          |
| SPINNER       | A-2298-2P      | SPINNER ASSEMBLY          | 1        | Prop    |                          |
| SPIN MTG KIT  | A-2476-19      | SPINNER - MTG KIT         | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2067         | STUD, MOUNTING, 1/2-20    | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-C2YK-1BF-OH | O/H KIT                   | 1        | Prop    | For aftermarket use only |

**IDS No.:** 1167      **Rev.:** 1      **IC Date:** 07/07/2015

**Modifier:**  
**Engine Model:** IO-360-B1E  
**Power:** 180 HP @ 2700 RPM  
**Placard/Restr:** Avoid continuous operation between 2000 and 2250 RPM.

**Notes:**  
  
**Startlock Angle:** NA  
**Feather/High Angle:** 29.0 +-2.0  
**Cwt Angle:**

**Non-HPI Governor:**

# HARTZELL

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### SEQUOIA AIRCRAFT

**Model:** FALCO F.8.L  
**Trade Name:**  
**Aircraft T.C./STC:** Unknown  
**Propeller Model:** HC-C2YR-1BFP  
**Propeller T.C.:** P-920  
**Blade Model(s):** F7497  
**Prop Diameter:** 74"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.0 +/-0.2  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number | Description                   | Quantity | Qty Per | Comments |
|---------------|-------------|-------------------------------|----------|---------|----------|
| PROPELLER     | C2R10718    | HC-C2YR-1BFP/F7497/SM43       | 1        | A/C     |          |
| BLADE         | F7497       | PCP:BLADE UNIT, ALUM [6,1,11] | 2        | Prop    |          |
| SPINNER       | A-2298-2    | SPINNER ASSEMBLY              | 1        | Prop    |          |
| SPINNER       | A-2298-2P   | SPINNER ASSEMBLY              | 1        | Prop    |          |
| SPIN MTG KIT  | A-2476-43   | SPINNER - MTG KIT             | 1        | Prop    |          |
| MTG BOLT/STUD | A-2067      | STUD, MOUNTING, 1/2-20        | 6        | Prop    |          |

**IDS No.:** 3486      **Rev.:** 1      **IC Date:** 09/14/2016

**Modifier:**  
**Engine Model:** IO-360-B1E  
**Power:** 180 HP @ 2700 RPM  
**Placard/Restr:** None  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 30.0 +/-2.0  
**Cwt Angle:**

**Non-HPI Governor:**

### SHERPA AIRCRAFT MFR CO.

**Model:** SHERPA  
**Trade Name:**  
**Aircraft T.C./STC:** Experimental  
**Propeller Model:** HC-C3YR-1RF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** F8483  
**Prop Diameter:** 86.0" TO 80.0"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.0 +/-0.1  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number | Description              | Quantity | Qty Per | Comments |
|---------------|-------------|--------------------------|----------|---------|----------|
| BLADE         | F8483       | PCP:BLADE UNIT, ALUMINUM | 3        | Prop    |          |
| SPINNER       | A-4203-1    | SPINNER ASSEMBLY         | 1        | Prop    |          |
| SPIN MTG KIT  | A-2476-18   | SPINNER - MTG KIT        | 1        | Prop    |          |
| MTG BOLT/STUD | A-2067      | STUD, MOUNTING, 1/2-20   | 6        | Prop    |          |

**IDS No.:** 1340      **Rev.:** -      **DM Date:** 08/07/1997

**Modifier:**  
**Engine Model:** IO-720-A1A  
**Power:** 400 HP @ 2650 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 30.0 +/-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

# HARTZELL

## APPLICATION GUIDE

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SHORT BROTHERS

IDS No.: 937 Rev.: 4 IC Date: 01/27/2020

**Model:** SC7 SERIES 3  
**Trade Name:** SKYVAN  
**Aircraft T.C./STC:** A15EU  
**Propeller Model:** HC-B3TN-5C, -5E, -5M  
**Propeller T.C.:** P15EA  
**Blade Model(s):** T10282  
 T10282B  
 T10282N  
 T10282NB

**Modifier:**  
**Engine Model:** TPE331-2-201A  
**Power:** 715 HP @ 2000 RPM  
**Placard/Restr:**  
**Notes:**

**Prop Diameter:** 102.0" TO 99.0"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** -6.0 +-0.5  
**Low Pitch Angle:** NA  
**Stud Protrusion**

**Startlock Angle:** 2.5 +-0.1  
**Feather/High Angle:** 85.0 +-0.5  
**Cwt Angle:** Positive

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type                      | Item Number   | Description                       | Quantity | Qty Per | Comments                 |
|--------------------------------|---------------|-----------------------------------|----------|---------|--------------------------|
| PROPELLER                      | B3N10728      | HC-B3TN-5E/T10282N                | 2        | A/C     |                          |
| PROPELLER                      | B3N10728KD    | HC-B3TN-5E/T10282N                | 2        | A/C     |                          |
| PROPELLER                      | B3N10729      | HC-B3TN-5E/T10282NB               | 2        | A/C     |                          |
| BLADE                          | T10282        | BLADE                             | 3        | Prop    |                          |
| BLADE                          | T10282B       | T10282B BLADE (NO.6), 4E1188-6    | 3        | Prop    |                          |
| BLADE                          | T10282N       | PCP:BLADE UNIT, ALUMINUM          | 3        | Prop    |                          |
| BLADE                          | T10282NB      | PCP:BLADE UNIT, ALUM 4H1188-6     | 3        | Prop    |                          |
| SPINNER                        | D-3434-1P     | SPINNER ASSEMBLY                  | 1        | Prop    |                          |
| COUNTERWEIGHT SLUG A-3039      |               | SLUG, COUNTERWEIGHT               | 1        | Blade   |                          |
| COUNTERWEIGHT SLUG A-890-8     |               | PCP:SLUG, COUNTERWEIGHT           | 1        | Blade   |                          |
| COUNTERWEIGHT SLUG B-3384-18H  |               | BOLT, 1/4-28, HEX HEAD            | 2        | Blade   |                          |
| COUNTERWEIGHT SLUG B-3851-0432 |               | WASHER                            | 2        | Blade   | Optional                 |
| COUNTERWEIGHT SLUG B-3851-0463 |               | WASHER                            | 2        | Blade   | Optional                 |
| DE-ICER                        | 4H1188-6      | DE-ICE BOOT                       | 1        | Blade   | Supersedes 7931-4E1188-6 |
| DE-ICE KIT PR                  | 7931-77-955   | IDS ITEM - DE-ICE KIT             | 1        | Prop    |                          |
| MTG BOLT/STUD                  | B-3339        | BOLT, MOUNTING, 9/16-18, 12 POINT | 8        | Prop    |                          |
| OVERHAUL KIT                   | HC-B3TN-5E-OH | O/H KIT                           | 1        | Prop    | For aftermarket use only |

# HARTZELL

## APPLICATION GUIDE 159

SHORT BROTHERS

IDS No.: 942      Rev.: 4      IC      Date: 01/27/2020

**Model:** S312  
**Trade Name:** TUCANO  
**Aircraft T.C./STC:** Unknown  
**Propeller Model:** HC-D4N-5C  
**Propeller T.C.:** P10NE  
**Blade Model(s):** D9327K  
**Prop Diameter:** 94"

**Modifier:**  
**Engine Model:** TPE331-12B  
**Power:** 1100 HP @ 2000 RPM  
**Placard/Restr:**

**Notes:** Refer to Manual 149 for Airworthiness Limitations.

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** -2.0 +-0.25  
**Low Pitch Angle:**  
**Stud Protrusion**

**Startlock Angle:** 2.0 +-0.5  
**Feather/High Angle:** 84.8 +-0.5  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u>            | <u>Item Number</u> | <u>Description</u>             | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>           |
|-----------------------------|--------------------|--------------------------------|-----------------|----------------|---------------------------|
| PROPELLER                   | D4N00311           | HC-D4N-5C/D9327K               | 1               | A/C            |                           |
| PROPELLER                   | D4N00311KD         | HC-D4N-5C/D9327K               | 1               | A/C            |                           |
| PROPELLER                   | D4N00311S          | HC-D4N-5C/D9327K/D-5319        | 1               | A/C            |                           |
| BLADE                       | D9327K             | PCP:BLADE UNIT, ALUMINUM       | 4               | Prop           |                           |
| SPINNER                     | D-5319             | SPINNER ASSEMBLY               | 1               | Prop           |                           |
| SPINNER                     | D-5319-P           | SPINNER ASSEMBLY               | 1               | Prop           |                           |
| SPIN MTG KIT                | A-2070-7           | SCREW, 1/4-28, BUTTON HEAD     | 8               | Prop           |                           |
| COUNTERWEIGHT               | C-472-1            | PCP:COUNTERWEIGHT              | 1               | Blade          |                           |
| COUNTERWEIGHT SLUG A-1712   |                    | BOLT,3/8-24,HEX HEAD           | 1               | Blade          |                           |
| COUNTERWEIGHT SLUG A-2043-1 |                    | NUT,3/8-24,HEX,SELF-LOCKING    | 1               | Blade          |                           |
| DE-ICER                     | 4H2271-10          | DE-ICE BOOT                    | 1               | Blade          | Supersedes 7931-4E2271-10 |
| DE-ICE KIT PR               | 106308             | DE-ICE KIT (ONE PROP)          | 1               | Prop           | Supersedes 7931-67-530-1  |
| DE-ICE KIT PR               | 7931-67-530-1      | DE-ICE KIT (ONE PROP)          | 1               | Prop           | Superseded by 106308      |
| MTG BOLT/STUD               | B-3339-1           | BOLT,MOUNTING,9/16-18,12 POINT | 8               | Prop           |                           |
| OVERHAUL KIT                | HC-D4N-5C-OH       | O/H KIT                        | 1               | Prop           | For aftermarket use only  |



# HARTZELL

## APPLICATION GUIDE 159

SHORT BROTHERS

IDS No.: 1445      Rev.: 4      IC      Date: 01/27/2020

**Model:** S312  
**Trade Name:** TUCANO  
**Aircraft T.C./STC:** Unknown  
**Propeller Model:** HC-D4N-5E  
**Propeller T.C.:** P10NE  
**Blade Model(s):** D9327K  
**Prop Diameter:** 94"

**Modifier:**  
**Engine Model:** TPE331-12B  
**Power:** 1100 HP @ 2000 RPM  
**Placard/Restr:**

**Notes:** Refer to Manual 149 for Airworthiness Limitations.

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** -2.0 +-0.25  
**Low Pitch Angle:**  
**Stud Protrusion**

**Startlock Angle:** 2.0 +-0.5  
**Feather/High Angle:** 84.8 +-0.5  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u>            | <u>Item Number</u> | <u>Description</u>             | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>           |
|-----------------------------|--------------------|--------------------------------|-----------------|----------------|---------------------------|
| PROPELLER                   | D4N00321           | HC-D4N-5E/D9327K               | 1               | A/C            |                           |
| PROPELLER                   | D4N00321S          | HC-D4N-5E/D9327K/D-5319-P      | 1               | A/C            |                           |
| BLADE                       | D9327K             | PCP:BLADE UNIT, ALUMINUM       | 4               | Prop           |                           |
| SPINNER                     | D-5319             | SPINNER ASSEMBLY               | 1               | Prop           |                           |
| SPINNER                     | D-5319-P           | SPINNER ASSEMBLY               | 1               | Prop           |                           |
| SPIN MTG KIT                | A-2070-7           | SCREW, 1/4-28, BUTTON HEAD     | 8               | Prop           |                           |
| COUNTERWEIGHT               | C-472-1            | PCP:COUNTERWEIGHT              | 1               | Blade          |                           |
| COUNTERWEIGHT SLUG A-1712   |                    | BOLT,3/8-24,HEX HEAD           | 1               | Blade          |                           |
| COUNTERWEIGHT SLUG A-2043-1 |                    | NUT,3/8-24,HEX,SELF-LOCKING    | 1               | Blade          |                           |
| DE-ICER                     | 4H2271-10          | DE-ICE BOOT                    | 1               | Blade          | Supersedes 7931-4E2271-10 |
| DE-ICE KIT PR               | 106308             | DE-ICE KIT (ONE PROP)          | 1               | Prop           | Supersedes 7931-67-530-1  |
| DE-ICE KIT PR               | 7931-67-530-1      | DE-ICE KIT (ONE PROP)          | 1               | Prop           | Superseded by 106308      |
| MTG BOLT/STUD               | B-3339-1           | BOLT,MOUNTING,9/16-18,12 POINT | 8               | Prop           |                           |
| OVERHAUL KIT                | HC-D4N-5E-OH       | O/H KIT                        | 1               | Prop           | For aftermarket use only  |

# HARTZELL

## APPLICATION GUIDE

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SHORT BROTHERS

IDS No.: 939 Rev.: 2 IC Date: 07/06/2015

Model: SD3-30  
 Trade Name:  
 Aircraft T.C./STC: A41EU  
 Propeller Model: HC-B5MP-3A  
 Propeller T.C.: P44GL

Modifier:  
 Engine Model: PT6A-45A, -45B, -45R  
 Power: 1173 HP @ 1700 RPM  
 Placard/Restr: Stabilized ground operation prohibited below 900 RPM and 1170-1400 RPM. Prop may be operated at or below 400 RPM when feathered. Recommendation: Taxi between 900 & 1170 RPM, advance through 1170-1400 RPM range only after aircraft lined up for takeoff. Selection of beta blade angle below +4° (30" station) prohibited during landing roll. Blade angles between +4° and full reverse may be used for ground maneuvering only.

Blade Model(s): M10282AB+6  
 M10282AB+6\*1  
 M10282ANB+6  
 M10282ANB+6\*1

Notes: Settings at 42" Radius: Reverse, -8.2 +-0.5; Low, 13.8 +-0.1; Feather, 81.8 +-0.5

Prop Diameter: 111.3" TO 110.7"

**Prop Setup:**

Ref. Radius: 30  
 Reverse Angle: -1.0 +-0.5  
 Low Pitch Angle: 21.0 +-0.1  
 Stud Protrusion

Startlock Angle: NA  
 Feather/High Angle: 89.0 +-0.5  
 Cwt Angle: 3.5 +-1.5

**Non-HPI Items:**

Non-HPI Spinner:

Non-HPI Governor:

**Hartzell Approved Items:**

| Item Type          | Item Number   | Description                       | Quantity | Qty Per | Comments                  |
|--------------------|---------------|-----------------------------------|----------|---------|---------------------------|
| PROPELLER          | B5P10070      | HC-B5MP-3A/M10282ANB+6            | 2        | A/C     |                           |
| BLADE              | M10282AB+6    | BLADE, 4E1601-7 BOOT              | 5        | Prop    |                           |
| BLADE              | M10282AB+6*1  | IDS*ITEM, BLADE,4E1601-10 BOOT    | 5        | Prop    |                           |
| BLADE              | M10282ANB+6   | PCP:BLADE UNIT, ALUM 4H1601-7     | 5        | Prop    |                           |
| BLADE              | M10282ANB+6*1 | IDS ITEM, BLADE,4E1601-10 BOOT    | 5        | Prop    |                           |
| SPINNER            | D-3434-8      | SPINNER ASSEMBLY                  | 1        | Prop    |                           |
| SPINNER            | D-3434-8P     | SPINNER ASSEMBLY                  | 1        | Prop    |                           |
| SPIN MTG KIT       | B-3384-4      | BOLT, 1/4-28, HEX HEAD            | 10       | Prop    |                           |
| SPIN MTG KIT       | B-3808-4      | NUT,HEX,SELF-LOCKING              | 10       | Prop    |                           |
| SPIN MTG KIT       | B-3851-0463   | WASHER                            | 10       | Prop    |                           |
| COUNTERWEIGHT SLUG | B-3386-14H    | BOLT,3/8-24,HEX HEAD              | 1        | Blade   |                           |
| COUNTERWEIGHT SLUG | B-3834-0632   | WASHER                            | 2        | Blade   |                           |
| COUNTERWEIGHT SLUG | B-4015        | PCP:SLUG, COUNTERWEIGHT           | 1        | Blade   |                           |
| DE-ICER            | 4H1601-10     | DE-ICE BOOT                       | 1        | Blade   | Supersedes 7931-4E1601-10 |
| DE-ICER            | 4H1601-7      | DE-ICE BOOT                       | 1        | Blade   | Supersedes 7931-4E1601-7  |
| DE-ICE KIT PR      | 7931-77-970-1 | DE-ICE KIT                        | 1        | Prop    |                           |
| MTG BOLT/STUD      | B-3339        | BOLT, MOUNTING, 9/16-18, 12 POINT | 8        | Prop    |                           |
| MISC ACCES         | 101058        | SHIM, MOUNTING, PROPELLER         | 1        | Prop    | Ref SB275                 |
| OVERHAUL KIT       | HC-B5MP-3A-OH | O/H KIT                           | 1        | Prop    | For aftermarket use only  |

# HARTZELL

## APPLICATION GUIDE

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SHORT BROTHERS

IDS No.: 940 Rev.: 2 IC Date: 07/06/2015

**Model:** SD3-60-200, SD3-SHERPA-200  
**Trade Name:** SHERPA  
**Aircraft T.C./STC:** A41EU  
**Propeller Model:** HC-B5MP-3C  
**Propeller T.C.:** P44GL

**Modifier:**  
**Engine Model:** PT6A-65(A)R  
**Power:** 1403 HP @ 1675 RPM  
**Placard/Restr:** Stabilized ground operation below 900 RPM is prohibited, except when propeller is feathered operation at or below 400 RPM is permissible. Stabilized operation between 1170 & 1400 RPM is prohibited.  
 Recommendation: Taxi between 900 & 1170 RPM in order to keep operation to a minimum through 1170-1400 RPM range in cross tail winds, advance through 1170 RPM only after aircraft is lined up with runway for take-off.

**Blade Model(s):** M10876ANSK  
 M10876ANSK\*2  
 M10876ASK  
 M10876ASK\*2  
**Prop Diameter:** 111.2" TO 110.7"

**Notes:**

**Prop Setup:**

**Ref. Radius:** 42  
**Reverse Angle:** -11.0 +/-0.5  
**Low Pitch Angle:** 16.7 +/-0.1  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 79.0 +/-0.5  
**Cwt Angle:** 2.5 +/-1.0

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type          | Item Number   | Description                       | Quantity | Qty Per | Comments                  |
|--------------------|---------------|-----------------------------------|----------|---------|---------------------------|
| PROPELLER          | B5P10104      | HC-B5MP-3C/M10876ANSK/BULK/DEI    | 2        | A/C     |                           |
| PROPELLER          | B5P10104KD    | HC-B5MP-3C/M10876ANSK/BULK/DEI    | 2        | A/C     |                           |
| BLADE              | M10876ANSK    | PCP:BLADE UNIT, ALUM, 4H2595-7    | 5        | Prop    |                           |
| BLADE              | M10876ANSK*2  | M10876ANS BLADE,4E2595-10 BOOT    | 5        | Prop    |                           |
| BLADE              | M10876ASK     | BLADE, 4E2595-7 BOOT              | 5        | Prop    |                           |
| BLADE              | M10876ASK*2   | IDS*ITEM, BLADE,4E2595-10 BOOT    | 5        | Prop    |                           |
| SPINNER            | D-3434-8P     | SPINNER ASSEMBLY                  | 1        | Prop    |                           |
| SPIN MTG KIT       | B-3384-4      | BOLT, 1/4-28, HEX HEAD            | 10       | Prop    |                           |
| SPIN MTG KIT       | B-3808-4      | NUT,HEX,SELF-LOCKING              | 10       | Prop    |                           |
| SPIN MTG KIT       | B-3851-0463   | WASHER                            | 10       | Prop    |                           |
| SP MT KIT DE-ICE   | B-3384-8H     | BOLT, 1/4-28, HEX HEAD            | 10       | Prop    |                           |
| SP MT KIT DE-ICE   | B-3808-4      | NUT,HEX,SELF-LOCKING              | 10       | Prop    |                           |
| SP MT KIT DE-ICE   | B-3837-0432   | WASHER, CORROSION RESISTANT       | 10       | Prop    |                           |
| SP MT KIT DE-ICE   | B-7077-52     | BELLEVILLE SPRING WASHER          | 10       | Prop    |                           |
| COUNTERWEIGHT SLUG | B-3343        | PCP:SLUG, COUNTERWEIGHT           | 1        | Blade   |                           |
| COUNTERWEIGHT SLUG | B-3386-14H    | BOLT,3/8-24,HEX HEAD              | 2        | Blade   |                           |
| COUNTERWEIGHT SLUG | B-3834-0632   | WASHER                            | 2        | Blade   |                           |
| DE-ICER            | 4H2595-10     | DE-ICE BOOT                       | 1        | Blade   | Supersedes 7931-4E2595-10 |
| DE-ICER            | 4H2595-7      | DE-ICE BOOT                       | 1        | Blade   | Supersedes 7931-4E2595-7  |
| DE-ICE KIT PR      | 7931-67-245-1 | DE-ICE KIT (ONE PROP)             | 1        | Prop    |                           |
| MTG BOLT/STUD      | B-3339        | BOLT, MOUNTING, 9/16-18, 12 POINT | 8        | Prop    |                           |
| MISC ACCES         | 101058        | SHIM, MOUNTING, PROPELLER         | 1        | Prop    | Ref SB275                 |
| OVERHAUL KIT       | HC-B5MP-3C-OH | O/H KIT                           | 1        | Prop    | For aftermarket use only  |

# HARTZELL

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SHORT BROTHERS

IDS No.: 941 Rev.: 4 IC Date: 05/24/2016

**Model:** SD3-60

**Trade Name:**

**Aircraft T.C./STC:** A41EU

**Propeller Model:** HC-A6A-3

**Propeller T.C.:** P14NE

**Modifier:**

**Engine Model:** PT6A-67R

**Power:** 1424 HP @ 1700 RPM

**Placard/Restr:** Stabilized ground operation is prohibited below 950 RPM and between 1250 and 1450 RPM.

**Blade Model(s):** A10460  
A10460E  
A10460EK  
A10460K

**Notes:** A/C Model is SD3-60 variant 200. Reference Manual 154 for Airworthiness Limitations.

**Prop Diameter:** 108.0" TO 107.875"

**Prop Setup:**

**Ref. Radius:** 42

**Startlock Angle:** NA

**Reverse Angle:** -16.0 +/-0.5

**Feather/High Angle:** 75.5 +/-0.5

**Low Pitch Angle:** 12.5 +/-0.2

**Cwt Angle:** Positive

**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type                   | Item Number   | Description                   | Quantity | Qty Per | Comments                       |
|-----------------------------|---------------|-------------------------------|----------|---------|--------------------------------|
| PROPELLER                   | A6A00015      | HC-A6A-3/A10460K/D-5311-1     | 2        | A/C     |                                |
| BLADE                       | A10460        | PCP: BLADE UNIT, COMP, A10460 | 6        | Prop    |                                |
| BLADE                       | A10460E       | BLADE ASSEMBLY, COMPOSITE     | 6        | Prop    |                                |
| BLADE                       | A10460EK      | COMPST BLADE, 4E2890-07 BOOT  | 6        | Prop    |                                |
| BLADE                       | A10460K       | PCP:BLADE ASSEMBLY, COMPOSITE | 6        | Prop    |                                |
| SPINNER                     | D-5311        | IDS Item                      | 1        | Prop    |                                |
| SPINNER                     | D-5311-1      | SPINNER ASSEMBLY, COMPOSITE   | 1        | Prop    |                                |
| COUNTERWEIGHT               | D-1209-1      | PCP:CLAMP, COUNTERWEIGHT      | 1        | Blade   |                                |
| COUNTERWEIGHT SLUG A-1712   |               | BOLT,3/8-24,HEX HEAD          | 2        | Blade   |                                |
| COUNTERWEIGHT SLUG A-2043-1 |               | NUT,3/8-24,HEX,SELF-LOCKING   | 2        | Blade   |                                |
| COUNTERWEIGHT SLUG B-1933   |               | SLUG, COUNTERWEIGHT           | 2        | Blade   |                                |
| DE-ICER                     | 4H2890-07     | DE-ICE BOOT                   | 1        | Blade   | Supersedes 7931-4E2890-07      |
| DE-ICE KIT PR               | 7931-65-550-1 | DE-ICE KIT                    | 1        | Prop    | For use with D-5313 BULKHEAD   |
| DE-ICE KIT PR               | 7931-65-550-3 | DE-ICE KIT                    | 1        | Prop    | For use with D-5313-1 BULKHEAD |
| DE-ICE KIT PR               | 7931-65-550-5 | DE-ICE KIT                    | 1        | Prop    | For use with D-5313-1 BULKHEAD |
| OVERHAUL KIT                | HC-A6A-3-OH   | O/H KIT                       | 1        | Prop    | For aftermarket use only       |

# HARTZELL

## APPLICATION GUIDE 159

**SIAMARCHETTI (AERMACCHI)**

**Model:** F.260, F.260B  
**Trade Name:**  
**Aircraft T.C./STC:** A10EU  
**Propeller Model:** HC-C2YK-1B, -1BF  
**Propeller T.C.:** P-920

**Blade Model(s):** F8467-8R  
**Prop Diameter:** 76" TO 75"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 15.5 +/-0.2  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number    | Description              | Quantity | Qty Per | Comments                 |
|---------------|----------------|--------------------------|----------|---------|--------------------------|
| PROPELLER     | C2K00090       | HC-C2YK-1BF/F8467-8R     | 1        | A/C     |                          |
| BLADE         | F8467-8R       | PCP:BLADE UNIT, ALUMINUM | 2        | Prop    |                          |
| MTG BOLT/STUD | A-2067         | STUD, MOUNTING, 1/2-20   | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-C2YK-1BF-OH | O/H KIT                  | 1        | Prop    | For aftermarket use only |

**IDS No.:** 950      **Rev.:** 3      **IC Date:** 07/07/2015

**Modifier:**  
**Engine Model:** O-540-E4A5  
**Power:** 260 HP @ 2700 RPM  
**Placard/Restr:** Avoid continuous operation between 2500 and 2600 RPM above 25" Hg manifold pressure.

**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 30.0 +/-0.5  
**Cwt Angle:**

**Non-HPI Governor:**

**SIAMARCHETTI (AERMACCHI)**

**Model:** F.260(C,D,E,F)  
**Trade Name:**  
**Aircraft T.C./STC:** A10EU  
  
**Propeller Model:** HC-C2YK-4F  
**Propeller T.C.:** P-920  
**Blade Model(s):** FC8477-8R  
**Prop Diameter:** 76" NO CUT OFF

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 15.5 +/-0.2  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number | Description                | Quantity | Qty Per | Comments        |
|---------------|-------------|----------------------------|----------|---------|-----------------|
| PROPELLER     | C2K00710    | HC-C2YK-4F/FC8477-8R       | 1        | A/C     |                 |
| BLADE         | FC8477-8R   | PCP:BLADE UNIT, ALUMINUM   | 2        | Prop    |                 |
| SPINNER       | 835-41      | SPINNER ASSEMBLY           | 1        | Prop    |                 |
| GOVERNOR      | F6-15A      | GOVERNOR ASSEMBLY, F-6-( ) | 1        | A/C     |                 |
| COUNTERWEIGHT | B-3202H-6   | PCP:COUNTERWEIGHT          | 1        | Blade   | Blade Component |
| MTG BOLT/STUD | A-2067      | STUD, MOUNTING, 1/2-20     | 6        | Prop    |                 |

**IDS No.:** 952      **Rev.:** 1      **D Date:** 05/11/2011

**Modifier:**  
**Engine Model:** O-540-E4A5 (C,F)IO-540-D4A5 (E)AEIO-540-D4A5 (D,E)  
**Power:** 260 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 32.0 +/- 0.5  
**Cwt Angle:**

**Non-HPI Governor:**

# HARTZELL

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**SIAI MARCHETTI (AERMACCHI)**

IDS No.: 951      Rev.: 2      IC      Date: 07/07/2015

**Model:** F.260C, D, E, F

**Trade Name:**

**Aircraft T.C./STC:** A10EU

**Modifier:**

**Engine Model:** O-540-E4A5, AEIO-540-D4A5, IO-540-D4A5, O-540-E4A5

**Propeller Model:** HC-C2YK-1BF

**Power:** 260 HP @ 2700 RPM

**Propeller T.C.:** P-920

**Placard/Restr:**

**Blade Model(s):** F8477-8R  
F8477-8R\*1

**Notes:**

**Prop Diameter:** 76" NO CUT OFF

**Prop Setup:**

**Ref. Radius:** 30

**Startlock Angle:** NA

**Reverse Angle:** NA

**Feather/High Angle:** 32.0 +-1.0

**Low Pitch Angle:** 15.5 +-0.1

**Cwt Angle:**

**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>           | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|------------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | C2K00180           | HC-C2YK-1BF/F8477-8R         | 1               | A/C            |                          |
| PROPELLER        | C2K00183           | HC-C2YK-1BF/F8477-8R[*1]     | 1               | A/C            |                          |
| BLADE            | F8477-8R           | PCP:BLADE UNIT, ALUM [1,1,1] | 2               | Prop           |                          |
| BLADE            | F8477-8R*1         | PCP:BLADE UNIT, ALUM [1,6,4] | 2               | Prop           |                          |
| SPINNER          | 835-20             | IDS Item                     | 1               | Prop           |                          |
| SPINNER          | 835-33             | SPINNER ASSEMBLY             | 1               | Prop           |                          |
| GOVERNOR         | F4-11Z             | GOVERNOR ASSEMBLY, F-4-( )   | 1               | A/C            |                          |
| GOVERNOR         | F4-4A              | GOVERNOR ASSEMBLY, F-4-( )   | 1               | A/C            |                          |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20       | 6               | Prop           |                          |
| OVERHAUL KIT     | HC-C2YK-1BF-OH     | O/H KIT                      | 1               | Prop           | For aftermarket use only |

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### SIAMARCHETTI (AerMacchi)

**Model:** F.260C, D  
**Trade Name:**  
**Aircraft T.C./STC:** STC-SA2252CE  
**Propeller Model:** HC-B3TF-7A  
**Propeller T.C.:** P15EA  
**Blade Model(s):** T10173-25R  
 T10173N-25R  
**Prop Diameter:** 76.5" TO 74

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** -11.0 +-0.5  
**Low Pitch Angle:** 18.0 +-0.1  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 955      **Rev.:** 3      **IC Date:** 07/18/2017

**Modifier:** SIAMARCHETTI  
**Engine Model:** 250-B17D  
**Power:** 317 HP @ 2030 RPM  
**Placard/Restr:**

**Notes:** Min diameter is per vibration approval

**Startlock Angle:** NA  
**Feather/High Angle:** 84.0 +-1.0  
**Cwt Angle:** Positive

**Non-HPI Governor:**

#### Hartzell Approved Items:

| Item Type                      | Item Number   | Description                   | Quantity | Qty Per | Comments                 |
|--------------------------------|---------------|-------------------------------|----------|---------|--------------------------|
| PROPELLER                      | B3F10070      | HC-B3TF-7A/T10173N-25R        | 1        | A/C     |                          |
| PROPELLER                      | B3F10070KD    | HC-B3TF-7A/T10173N-25R        | 1        | A/C     |                          |
| BLADE                          | T10173-25R    | BLADE                         | 3        | Prop    |                          |
| BLADE                          | T10173N-25R   | PCP:BLADE UNIT, ALUMINUM      | 3        | Prop    |                          |
| SPINNER                        | 835-39        | SPINNER ASSEMBLY              | 1        | Prop    |                          |
| SPIN MTG KIT                   | A-3491        | SPINNER - MTG KIT             | 1        | Prop    |                          |
| COUNTERWEIGHT SLUG B-3386-14H  |               | BOLT,3/8-24,HEX HEAD          | 2        | Blade   |                          |
| COUNTERWEIGHT SLUG B-3663-3    |               | PCP:SLUG, COUNTERWEIGHT       | 1        | Blade   |                          |
| COUNTERWEIGHT SLUG B-3834-0632 |               | WASHER                        | 2        | Blade   |                          |
| MTG BOLT/STUD                  | A-1328-1      | BOLT,MOUNTING,1/2-20,12 POINT | 6        | Prop    |                          |
| OVERHAUL KIT                   | HC-B3TF-7A-OH | O/H KIT                       | 1        | Prop    | For aftermarket use only |

### SIAMARCHETTI (AERMACCHI)

**Model:** F.260C, D, E  
**Trade Name:**  
**Aircraft T.C./STC:** STC-SA302GL  
**Propeller Model:** HC-C2YK-4( )F  
**Propeller T.C.:** P-920  
**Blade Model(s):** FC8477-8R  
**Prop Diameter:** 76"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 15.5 +-0.1  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 954      **Rev.:** -      **DM Date:** 09/21/2004

**Modifier:** GARY FRITZLER  
**Engine Model:** O-540-E4A5, (AE)IO-540-D4A5  
**Power:** 260 HP @ 2700 RPM  
**Placard/Restr:**

**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 33.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

#### Hartzell Approved Items:

| Item Type     | Item Number | Description              | Quantity | Qty Per | Comments        |
|---------------|-------------|--------------------------|----------|---------|-----------------|
| BLADE         | FC8477-8R   | PCP:BLADE UNIT, ALUMINUM | 2        | Prop    |                 |
| COUNTERWEIGHT | B-3202H-6   | PCP:COUNTERWEIGHT        | 1        | Blade   | Blade Component |
| MTG BOLT/STUD | A-2067      | STUD, MOUNTING, 1/2-20   | 6        | Prop    |                 |

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**SIAMARCHETTI (AERMACCHI)**

IDS No.: 202      Rev.: 2      IC      Date: 07/07/2015

**Model:** F.260E  
**Trade Name:**  
**Aircraft T.C./STC:** A10EU  
**Propeller Model:** HC-C2YK-1BF  
**Propeller T.C.:** P-920  
**Blade Model(s):** F8477-8R  
**Prop Diameter:** 76" NO CUT OFF

**Modifier:**  
**Engine Model:** IO-540-D4A5  
**Power:** 260 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 15.5 +-0.1  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 32.0 +-1.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type     | Item Number    | Description                  | Quantity | Qty Per | Comments                 |
|---------------|----------------|------------------------------|----------|---------|--------------------------|
| PROPELLER     | C2K00180       | HC-C2YK-1BF/F8477-8R         | 1        | A/C     |                          |
| BLADE         | F8477-8R       | PCP:BLADE UNIT, ALUM [1,1,1] | 2        | Prop    |                          |
| MTG BOLT/STUD | A-2067         | STUD, MOUNTING, 1/2-20       | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-C2YK-1BF-OH | O/H KIT                      | 1        | Prop    | For aftermarket use only |

**SIAMARCHETTI (AerMacchi)**

IDS No.: 957      Rev.: 2      IC      Date: 07/15/2015

**Model:** SM-1019  
**Trade Name:**  
**Aircraft T.C./STC:** Unknown  
**Propeller Model:** HC-B3TF-7A  
**Propeller T.C.:** P15EA  
**Blade Model(s):** T10173E-11R  
    T10173NE-11R  
**Prop Diameter:** 89.6"

**Modifier:**  
**Engine Model:** 250-B15G  
**Power:** 317 HP @ 2060 RPM  
**Placard/Restr:**  
**Notes:** Modified Cessna L-19 "Bird Dog"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** -11.0 +-0.5  
**Low Pitch Angle:**  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 85.0 +-1.0  
**Cwt Angle:** Positive

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type          | Item Number   | Description                      | Quantity | Qty Per | Comments                 |
|--------------------|---------------|----------------------------------|----------|---------|--------------------------|
| BLADE              | T10173E-11R   | IDS*ITEM, BLADE                  | 3        | Prop    |                          |
| BLADE              | T10173NE-11R  | IDS ITEM, BLADE                  | 3        | Prop    |                          |
| SPINNER            | 835-39        | SPINNER ASSEMBLY                 | 1        | Prop    |                          |
| SPIN MTG KIT       | A-3491        | SPINNER - MTG KIT                | 1        | Prop    |                          |
| COUNTERWEIGHT SLUG | B-3363-3      | IDS Item                         | 1        | Blade   |                          |
| COUNTERWEIGHT SLUG | B-3386-14H    | BOLT, 3/8-24, HEX HEAD           | 2        | Blade   |                          |
| COUNTERWEIGHT SLUG | B-3834-0632   | WASHER                           | 2        | Blade   |                          |
| MTG BOLT/STUD      | A-1328-1      | BOLT, MOUNTING, 1/2-20, 12 POINT | 6        | Prop    |                          |
| OVERHAUL KIT       | HC-B3TF-7A-OH | O/H KIT                          | 1        | Prop    | For aftermarket use only |



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**SIAMARCHETTI (OMA-Foligno)**

**Model:** S.205-18F, 18R  
**Trade Name:**  
**Aircraft T.C./STC:** A9EU  
**Propeller Model:** HC-C2YK-1BF  
**Propeller T.C.:** P-920

**Blade Model(s):** F7666A-2  
**Prop Diameter:** 74" TO 72"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.0 +- 0.1  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number    | Description              | Quantity | Qty Per | Comments                 |
|---------------|----------------|--------------------------|----------|---------|--------------------------|
| PROPELLER     | C2K00025       | HC-C2YK-1BF/F7666A-2     | 1        | A/C     |                          |
| BLADE         | F7666A-2       | PCP:BLADE UNIT, ALUMINUM | 2        | Prop    |                          |
| SPINNER       | 835-33         | SPINNER ASSEMBLY         | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2067         | STUD, MOUNTING, 1/2-20   | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-C2YK-1BF-OH | O/H KIT                  | 1        | Prop    | For aftermarket use only |

**IDS No.:** 943      **Rev.:** 1      **IC Date:** 07/07/2015

**Modifier:**  
**Engine Model:** O-360-A1A  
**Power:** 180 HP @ 2700 RPM  
**Placard/Restr:** Avoid continuous operation between 2000 and 2250 RPM

**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 29.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

**SIAMARCHETTI (OMA-Foligno)**

**Model:** S.205-20F, 20R  
**Trade Name:**  
**Aircraft T.C./STC:** A9EU  
**Propeller Model:** HC-C2YK-1BF  
**Propeller T.C.:** P-920  
**Blade Model(s):** F7666A-2  
**Prop Diameter:** 74" TO 72"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 14.0 +-0.1  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number    | Description                | Quantity | Qty Per | Comments                 |
|---------------|----------------|----------------------------|----------|---------|--------------------------|
| PROPELLER     | C2K00045       | HC-C2YK-1BF/F7666A-2       | 1        | A/C     |                          |
| BLADE         | F7666A-2       | PCP:BLADE UNIT, ALUMINUM   | 2        | Prop    |                          |
| SPINNER       | 835-33         | SPINNER ASSEMBLY           | 1        | Prop    |                          |
| GOVERNOR      | F2-2A          | GOVERNOR ASSEMBLY, F-2-( ) | 1        | A/C     |                          |
| MTG BOLT/STUD | A-2067         | STUD, MOUNTING, 1/2-20     | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-C2YK-1BF-OH | O/H KIT                    | 1        | Prop    | For aftermarket use only |

**IDS No.:** 944      **Rev.:** 1      **IC Date:** 07/07/2015

**Modifier:**  
**Engine Model:** IO-360-A1A  
**Power:** 200 HP @ 2700 RPM  
**Placard/Restr:**

**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 29.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

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**SIAMARCHETTI (OMA-FOLIGNO)**

**Model:** S.208, A  
**Trade Name:**  
**Aircraft T.C./STC:** A9EU  
**Propeller Model:** HC-C2YK-1B  
**Propeller T.C.:** P-920  
**Blade Model(s):** F8467-8R  
**Prop Diameter:** 76" TO 75"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 15.5 +-0.2  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 947      **Rev.:** -      **DM Date:** 06/06/2006

**Modifier:**  
**Engine Model:** IO-540-E4A5  
**Power:** 260 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 32.0 +-0.5  
**Cwt Angle:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>         | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|----------------------------|-----------------|----------------|-----------------|
| BLADE            | F8467-8R           | PCP:BLADE UNIT, ALUMINUM   | 2               | Prop           |                 |
| SPINNER          | 835-20             | IDS Item                   | 1               | Prop           |                 |
| SPINNER          | 835-33             | SPINNER ASSEMBLY           | 1               | Prop           |                 |
| GOVERNOR         | F4-4A              | GOVERNOR ASSEMBLY, F-4-( ) | 1               | A/C            |                 |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20     | 6               | Prop           |                 |

**SIAMARCHETTI (OMA-FOLIGNO)**

**Model:** S.208, A  
**Trade Name:**  
**Aircraft T.C./STC:** A9EU  
**Propeller Model:** HC-C2YK-1BF  
**Propeller T.C.:** P-920  
**Blade Model(s):** F8477-8R  
**Prop Diameter:** 76" NO CUT OFF

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 15.5 +-0.2  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 946      **Rev.:** 1      **IC Date:** 08/16/2016

**Modifier:**  
**Engine Model:** IO-540-E4A5  
**Power:** 260 HP @ 2700 RPM  
**Placard/Restr:** None.  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 32.0 +-0.5  
**Cwt Angle:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>           | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|------------------------------|-----------------|----------------|-----------------|
| PROPELLER        | C2K00181           | HC-C2YK-1BF/F8477-8R         | 1               | A/C            |                 |
| BLADE            | F8477-8R           | PCP:BLADE UNIT, ALUM [1,1,1] | 2               | Prop           |                 |
| SPINNER          | 835-20             | IDS Item                     | 1               | Prop           |                 |
| SPINNER          | 835-33             | SPINNER ASSEMBLY             | 1               | Prop           |                 |
| GOVERNOR         | F4-4A              | GOVERNOR ASSEMBLY, F-4-( )   | 1               | A/C            |                 |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20       | 6               | Prop           |                 |

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SIAI MARCHETTI (OMA-FOLIGNO)

IDS No.: 949      Rev.: -      DM Date: 07/29/2004

Model: S.210

Trade Name:

Aircraft T.C./STC: A25EU

Propeller Model: HC-C2YK-2B (per T.C.), -2CF (Hz)

Propeller T.C.: P-920

Blade Model(s): FC8468-10R

Prop Diameter: 74" NO CUT OFF

### Prop Setup:

Ref. Radius: 30

Reverse Angle: NA

Low Pitch Angle: 16.0 +-0.2

Stud Protrusion

### Non-HPI Items:

Non-HPI Spinner:

Non-HPI Governor:

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>            | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>   |
|------------------|--------------------|-------------------------------|-----------------|----------------|-------------------|
| BLADE            | FC8468-10R         | PCP:BLADE UNIT, B-3202H-4 CWT | 2               | Prop           |                   |
| SPINNER          | 836-29             | SPINNER ASSEMBLY              | 1               | Prop           |                   |
| GOVERNOR         | F6-26              | IDS Item                      | 1               | Prop           | F6-3A (T.C.wrong) |
| COUNTERWEIGHT    | B-3202H-4          | PCP:COUNTERWEIGHT             | 1               | Blade          | Blade Component   |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20        | 6               | Prop           |                   |

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SIAI MARCHETTI (VulcanAir)

IDS No.: 956      Rev.: 2      IC      Date: 07/15/2015

**Model:** SF600 CANGURO

**Modifier:**

**Trade Name:**

**Engine Model:** 250-B17C

**Aircraft T.C./STC:** A61EU

**Power:** 420 HP @ 2030 RPM

**Propeller Model:** HC-B3TF-7A

**Placard/Restr:**

**Propeller T.C.:** P15EA

**Notes:**

**Blade Model(s):** T10173-11R

T10173B-11R

T10173K-11R

T10173N-11R

T10173NB-11R

T10173NK-11R

**Prop Diameter:** 90 3/8 minimum

**Prop Setup:**

**Ref. Radius:** 30

**Startlock Angle:** NA

**Reverse Angle:** -11.0 +-0.5

**Feather/High Angle:** 86.0 +-0.5

**Low Pitch Angle:** 9.5 +-0.5

**Cwt Angle:** Positive

**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u>   | <u>Item Number</u> | <u>Description</u>             | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>           |
|--------------------|--------------------|--------------------------------|-----------------|----------------|---------------------------|
| BLADE              | T10173-11R         | BLADE                          | 3               | Prop           |                           |
| BLADE              | T10173B-11R        | BLADE, 4E1188-10 BOOT          | 3               | Prop           |                           |
| BLADE              | T10173K-11R        | BLADE, 4E2200-10 BOOT          | 3               | Prop           |                           |
| BLADE              | T10173N-11R        | PCP:BLADE UNIT, ALUM [1,1,1]   | 3               | Prop           |                           |
| BLADE              | T10173NB-11R       | IDS ITEM, BLADE,4E2824-10 BOOT | 3               | Prop           |                           |
| BLADE              | T10173NK-11R       | IDS ITEM, BLADE,4E2428-10 BOOT | 3               | Prop           |                           |
| SPINNER            | 835-39             | SPINNER ASSEMBLY               | 1               | Prop           |                           |
| SPIN MTG KIT       | A-3491             | SPINNER - MTG KIT              | 1               | Prop           |                           |
| COUNTERWEIGHT SLUG | B-3363-3           | IDS Item                       | 1               | Blade          |                           |
| COUNTERWEIGHT SLUG | B-3386-14H         | BOLT,3/8-24,HEX HEAD           | 2               | Blade          |                           |
| COUNTERWEIGHT SLUG | B-3834-0632        | WASHER                         | 2               | Blade          |                           |
| DE-ICER            | 4H2824-10          | DE-ICE BOOT                    | 1               | Blade          | Supersedes 7931-4E2824-10 |
| DE-ICE KIT PR      | 7931-67-475-1      | IDS ITEM - DE-ICE KIT          | 1               | Prop           |                           |
| MTG BOLT/STUD      | A-1328-1           | BOLT,MOUNTING,1/2-20,12 POINT  | 6               | Prop           |                           |
| OVERHAUL KIT       | HC-B3TF-7A-OH      | O/H KIT                        | 1               | Prop           | For aftermarket use only  |

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### SIERRA HOTEL AERO

**Model:** Navion A,B,D-H  
**Trade Name:** Navion  
**Aircraft T.C./STC:** Form 337  
**Propeller Model:** PHC-C3YF-1RF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** F8068  
**Prop Diameter:** 82" to 80" inches

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** 12.5 +/- 0.2  
**Stud Protrusion** 1.450 +/-0.030

#### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 3166      **Rev.:** 1      **IC Date:** 07/16/2015

**Modifier:**  
**Engine Model:** IO-550-B  
**Power:** 300 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:**  
**Feather/High Angle:** 33.0 +/- 1.0  
**Cwt Angle:**

**Non-HPI Governor:**

#### Hartzell Approved Items:

| Item Type     | Item Number     | Description                  | Quantity | Qty Per | Comments                                   |
|---------------|-----------------|------------------------------|----------|---------|--|
| PROPELLER     | C3F01907        | PHC-C3YF-1RF/F8068/SM7       | 1        | A/C     |  |
| BLADE         | F8068           | PCP:BLADE UNIT, ALUM [1,1,5] | 3        | Prop    |  |
| SPINNER       | A-2295-1        | SPINNER ASSEMBLY             | 1        | Prop    |  |
| SPINNER       | A-2295-1P       | SPINNER ASSEMBLY             | 1        | Prop    |  |
| SPIN MTG KIT  | A-2476-7        | SPINNER - MTG KIT            | 1        | Prop    |  |
| MTG BOLT/STUD | A-2429-4        | STUD, MOUNTING, 1/2-20       | 6        | Prop    | Use with E-7154-2R hub only                |
| MTG BOLT/STUD | A-2429-7        | STUD, MOUNTING, 1/2-20       | 6        | Prop    | Use with E-7154-12R & E-7154-42R hubs only |
| OVERHAUL KIT  | PHC-C3YF-1RF*1  | O/H KIT W/O SLIMSERTS        | 1        | Prop    | For aftermarket use only                   |
| OVERHAUL KIT  | PHC-C3YF-1RF-OH | O/H KIT                      | 1        | Prop    | For aftermarket use only                   |

### SIMMERING GRAZ PAUKER A.G.

**Model:** SGP222-A  
**Trade Name:**  
**Aircraft T.C./STC:** A2EU  
**Propeller Model:** HC-C2YK-2RB  
**Propeller T.C.:** P-920  
**Blade Model(s):** F7666A-2  
**Prop Diameter:** 74" NO CUT OFF

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 14.0 +/-0.2  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 959      **Rev.:** -      **DM Date:** 10/01/1992

**Modifier:**  
**Engine Model:** IO-360-A1A  
**Power:** 200 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** 19.5 +/-1.5  
**Feather/High Angle:** 80.0 +/-0.5  
**Cwt Angle:**

**Non-HPI Governor:**

#### Hartzell Approved Items:

| Item Type     | Item Number | Description              | Quantity | Qty Per | Comments |
|---------------|-------------|--------------------------|----------|---------|----------|
| BLADE         | F7666A-2    | PCP:BLADE UNIT, ALUMINUM | 2        | Prop    |          |
| SPINNER       | 835-21P     | SPINNER ASSEMBLY         | 1        | Prop    |          |
| GOVERNOR      | B4-1        | IDS Item                 | 1        | Prop    |          |
| MTG BOLT/STUD | A-2067      | STUD, MOUNTING, 1/2-20   | 6        | Prop    |          |

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**SIMMERING GRAZ PAUKER A.G.**

**Model:** SGP222  
**Trade Name:**  
**Aircraft T.C./STC:** A2EU  
**Propeller Model:** HC-92ZK-2B  
**Propeller T.C.:** P892  
**Blade Model(s):** 8447-12A  
8447N-12A  
**Prop Diameter:** 71.6" TO 70"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 14.0 +-0.2  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 958      **Rev.:** 1      **D**      **Date:** 01/10/2011

**Modifier:**  
**Engine Model:** IO-360-B1A  
**Power:** 180 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 83.0 +-1.0  
**Cwt Angle:** Positive

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>            | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|-------------------------------|-----------------|----------------|-----------------|
| BLADE            | 8447-12A           | BLADE UNIT, ALUMINUM          | 2               | Prop           |                 |
| BLADE            | 8447N-12A          | PCP:BLADE UNIT, ALUMINUM      | 2               | Prop           |                 |
| SPINNER          | 835-30             | SPINNER ASSEMBLY              | 1               | Prop           | 835-5 in TC     |
| GOVERNOR         | B4-1               | IDS Item                      | 1               | A/C            |                 |
| MTG BOLT/STUD    | A-1328             | BOLT,MOUNTING,1/2-20,12 POINT | 4               | Prop           |                 |
| MTG BOLT/STUD    | A-1333             | BOLT,MOUNTING,1/2-20,HEX HEAD | 2               | Prop           |                 |

**SKYDANCER AVIATION**

**Model:** SD-260  
**Trade Name:**  
**Aircraft T.C./STC:** Experimental  
**Propeller Model:** HC-C2YR-4CF  
**Propeller T.C.:** P-920  
**Blade Model(s):** FC8477A-4\*1  
**Prop Diameter:** 80"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 11.0 +-0.1  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 1341      **Rev.:** -      **DM**      **Date:** 05/16/1999

**Modifier:**  
**Engine Model:** IO-540-C4B5  
**Power:** 260 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:** Engine rating is non-standard.

**Startlock Angle:** NA  
**Feather/High Angle:** 33.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>        | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|---------------------------|-----------------|----------------|-----------------|
| BLADE            | FC8477A-4*1        | PCP:BLADE UNIT, B-3202H-8 | 2               | Prop           |                 |
| SPINNER          | 836-60             | SPINNER ASSEMBLY          | 1               | Prop           |                 |
| SPIN MTG KIT     | A-2476-8           | SPINNER - MTG KIT         | 1               | Prop           |                 |
| COUNTERWEIGHT    | B-3202H-8          | PCP:COUNTERWEIGHT         | 1               | Blade          | Blade Component |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20    | 6               | Prop           |                 |

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SLINGSBY

**Model:** T67M200  
**Trade Name:** FIREFLY  
**Aircraft T.C./STC:** Unknown  
**Propeller Model:** HC-C2YR-4CF  
**Propeller T.C.:** P-920  
**Blade Model(s):** FC7666A-2  
**Prop Diameter:** 74"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.0 +-0.1  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 1343      **Rev.:** -      **DM Date:** 05/16/1999

**Modifier:**  
**Engine Model:** AEIO-360-A1E  
**Power:** 200 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 30.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>            | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|-------------------------------|-----------------|----------------|-----------------|
| BLADE            | FC7666A-2          | PCP:BLADE UNIT, B-3202H-6 CWT | 2               | Prop           |                 |
| SPINNER          | 836-60P            | SPINNER ASSEMBLY              | 1               | Prop           |                 |
| GOVERNOR         | F6-56              | GOVERNOR ASSEMBLY, F-6-( )    | 1               | A/C            |                 |
| SPIN MTG KIT     | A-2476-8           | SPINNER - MTG KIT             | 1               | Prop           |                 |
| COUNTERWEIGHT    | B-3202H-6          | PCP:COUNTERWEIGHT             | 1               | Blade          | Blade Component |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20        | 6               | Prop           |                 |

SNOW

**Model:** see AYRES  
**Trade Name:**  
**Aircraft T.C./STC:**  
**Propeller Model:**  
**Propeller T.C.:**  
**Blade Model(s):**  
**Prop Diameter:**

### Prop Setup:

**Ref. Radius:**  
**Reverse Angle:**  
**Low Pitch Angle:**  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 960      **Rev.:** -      **DM Date:** 10/01/1992

**Modifier:**  
**Engine Model:**  
**Power:** HP @ RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:**  
**Feather/High Angle:**  
**Cwt Angle:**

**Non-HPI Governor:**

### Hartzell Approved Items:

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SOCATA

**Model:** see AEROSPATIALE

**Trade Name:**

**Aircraft T.C./STC:**

**Propeller Model:**

**Propeller T.C.:**

**Blade Model(s):**

**Prop Diameter:**

**Prop Setup:**

**Ref. Radius:**

**Reverse Angle:**

**Low Pitch Angle:**

**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

**IDS No.:** 961      **Rev.:** -      **DM Date:** 10/01/1992

**Modifier:**

**Engine Model:**

**Power:** HP @ RPM

**Placard/Restr:**

**Notes:**

**Startlock Angle:**

**Feather/High Angle:**

**Cwt Angle:**

**Non-HPI Governor:**

SOCATA

**Model:** TBM 700

**Trade Name:** TBM 900

**Aircraft T.C./STC:** A60EU

**Propeller Model:** HC-E5N-3C

**Propeller T.C.:** P20NE

**Blade Model(s):** NC8834K

**Prop Diameter:** 91"

**Prop Setup:**

**Ref. Radius:** 30"

**Reverse Angle:** -9.3 +/- 0.2

**Low Pitch Angle:** 19.5 +/- 0.1

**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

**IDS No.:** 3253      **Rev.:** 6      **IC Date:** 01/13/2020

**Modifier:**

**Engine Model:** PT6A-66D

**Power:** 850 HP @ 2000 RPM

**Placard/Restr:** None

**Notes:**

**Startlock Angle:**

**Feather/High Angle:** 85.0 +/- 0.5

**Cwt Angle:**

**Non-HPI Governor:**

| Item Type        | Item Number  | Description                    | Quantity | Qty Per | Comments                                     |
|------------------|--------------|--------------------------------|----------|---------|--|
| PROPELLER        | E5N00500S    | HC-E5N-3C/NC8834K/104552P      | 1        | A/C     |  |
| PROPELLER        | E5N00500SKD  | HC-E5N-3C/NC8834K/104552P      | 1        | A/C     |  |
| BLADE            | NC8834K      | PCP:BLADE ASSY,COMP. [3,1,15]  | 5        | Prop    |  |
| SPINNER          | 104552       | SPINNER ASSEMBLY               | 1        | Prop    |  |
| SPINNER          | 104552P      | SPINNER ASSEMBLY               | 1        | Prop    |  |
| SP MT KIT DE-ICE | A-2070-11    | SCREW, 1/4-28, BUTTON HEAD     | 10       | Prop    |  |
| COUNTERWEIGHT    | 105425       | PCP:COUNTERWEIGHT              | 1        | Blade   |  |
| DE-ICER          | 102197       | DE-ICE BOOT                    | 1        | Blade   |  |
| DE-ICE KIT PR    | 105062       | DE-ICE KIT (ONE PROP)          | 1        | Prop    |  |
| DE-ICE KIT A/F   | 105068       | AIRFRAME DE-ICE KIT            | 1        | A/C     |  |
| MTG BOLT/STUD    | B-3339-1     | BOLT,MOUNTING,9/16-18,12 POINT | 8        | Prop    |  |
| MISC ACCES       | A-3044       | BLOCK, BETA FEEDBACK- ASSEMBLY | 1        | Prop    |  |
| OVERHAUL KIT     | 105062-OH    | DE-ICE O/H KIT                 | 1        |         | Kit to support Service Bulletin HC-SB 61-367 |
| OVERHAUL KIT     | HC-E5N-3C-OH | O/H KIT                        | 1        | Prop    |  |



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SOCATA

IDS No.: 3270 Rev.: 5 IC Date: 01/13/2020

Model: TBM 700  
 Trade Name:  
 Aircraft T.C./STC: SA03291CH  
 Propeller Model: HC-E5N-3C  
 Propeller T.C.: P20NE

Modifier: Hartzell Propeller  
 Engine Model: PT6A-64, PT6A-66D  
 Power: 700 HP @ 2000 RPM  
 Placard/Restr: Stabilized ground operation between 450 and 1000 RPM is prohibited. Stabilized ground operation below 450 RPM is permissible in feather.

Blade Model(s): NC8834K\*1  
 Prop Diameter: 91"

Notes:

**Prop Setup:**

Ref. Radius: 30"  
 Reverse Angle: -9.0+/-0.5  
 Low Pitch Angle: 19.5 +/- 0.1  
 Stud Protrusion

Startlock Angle:  
 Feather/High Angle: 85.0 +/- 0.5  
 Cwt Angle:

**Non-HPI Items:**

Non-HPI Spinner:

Non-HPI Governor:

**Hartzell Approved Items:**

| Item Type        | Item Number  | Description                    | Quantity | Qty Per | Comments                                     |
|------------------|--------------|--------------------------------|----------|---------|--|
| PROPELLER        | E5N00501S    | HC-E5N-3C/NC8834K[*1]/105180P  | 1        | A/C     |  |
| PROPELLER        | E5N00501SKD  | HC-E5N-3C/NC8834K[*1]/105180P  | 1        | A/C     | Complete Prop, disassembled for shipment     |
| BLADE            | NC8834K*1    | PCP:BLADE ASSY,COMP. [3,24,11] | 5        | Prop    |  |
| SPINNER          | 105180       | SPINNER ASSEMBLY               | 1        | Prop    |  |
| SPINNER          | 105180P      | SPINNER ASSEMBLY               | 1        | Prop    |  |
| SP MT KIT DE-ICE | A-2070-11    | SCREW, 1/4-28, BUTTON HEAD     | 10       | Prop    |  |
| COUNTERWEIGHT    | 105425       | PCP:COUNTERWEIGHT              | 1        | Blade   |  |
| DE-ICER          | 102197       | DE-ICE BOOT                    | 1        | Blade   |  |
| DE-ICE KIT PR    | 105551       | DE-ICE KIT (ONE PROP)          | 1        | Prop    |  |
| DE-ICE KIT A/F   | 105068       | AIRFRAME DE-ICE KIT            | 1        | A/C     |  |
| MTG BOLT/STUD    | B-3339-1     | BOLT,MOUNTING,9/16-18,12 POINT | 8        | Prop    |  |
| MISC ACCES       | A-3044       | BLOCK, BETA FEEDBACK- ASSEMBLY | 1        | Prop    |  |
| OVERHAUL KIT     | 105551-OH    | DE-ICE O/H KIT                 | 1        | Prop    | Kit to support Service Bulletin HC-SB 61-367 |
| OVERHAUL KIT     | HC-E5N-3C-OH | O/H KIT                        | 1        | Prop    |  |

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**SOKO**

**Model:** J-20  
**Trade Name:** KRAGUJ  
**Aircraft T.C./STC:** UNKNOWN  
**Propeller Model:** HC-B3Z20-1  
**Propeller T.C.:** P-907  
**Blade Model(s):** 10151CN-5  
**Prop Diameter:** 96"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** 15.5 +/-0.2  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:** No Spinner

**Hartzell Approved Items:**

| Item Type                    | Item Number | Description                | Quantity | Qty Per | Comments |
|------------------------------|-------------|----------------------------|----------|---------|----------|
| BLADE                        | 10151CN-5   | PCP:BLADE UNIT, ALUMINUM   | 3        | Prop    |          |
| COUNTERWEIGHT SLUG A-890     |             | PCP:SLUG, COUNTERWEIGHT    | 1        | Blade   |          |
| COUNTERWEIGHT SLUG B-3384-7H |             | BOLT, 1/4-28, HEX HEAD     | 2        | Blade   |          |
| MTG BOLT/STUD                | A-63B       | PCP: NUT, SHAFT, 20 SPLINE | 1        | Prop    |          |

**IDS No.:** 2767      **Rev.:** 1      **D**      **Date:** 01/10/2011

**Modifier:**  
**Engine Model:** GSO-480-B1A6  
**Power:** 340 HP @ 2182 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:**  
**Feather/High Angle:** 31.2 +/-0.5  
**Cwt Angle:**

**Non-HPI Governor:**

**SORRELL**

**Model:** SNS-7  
**Trade Name:**  
**Aircraft T.C./STC:** Experimental  
**Propeller Model:** HC-C2YK-4CF  
**Propeller T.C.:** P-920

**Blade Model(s):** FC7666A-2  
 FC7666A-4Q

**Prop Diameter:** 74"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.5 +/-0.1  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number    | Description                   | Quantity | Qty Per | Comments                 |
|---------------|----------------|-------------------------------|----------|---------|--------------------------|
| PROPELLER     | C2K00609       | HC-C2YK-4CF/FC7666A-2/SM8     | 1        | A/C     |                          |
| BLADE         | FC7666A-2      | PCP:BLADE UNIT, B-3202H-6 CWT | 2        | Prop    |                          |
| BLADE         | FC7666A-4Q     | PCP:BLADE UNIT, B-3202H-6 CWT | 2        | Prop    |                          |
| SPINNER       | 836-52         | SPINNER ASSEMBLY              | 1        | Prop    |                          |
| SPIN MTG KIT  | A-2476-8       | SPINNER - MTG KIT             | 1        | Prop    |                          |
| COUNTERWEIGHT | B-3202H-6      | PCP:COUNTERWEIGHT             | 1        | Blade   | Blade Component          |
| MTG BOLT/STUD | A-2067         | STUD, MOUNTING, 1/2-20        | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-C2YK-4CF-OH | O/H KIT                       | 1        | Prop    | For aftermarket use only |

**IDS No.:** 963      **Rev.:** 1      **IC**      **Date:** 07/07/2015

**Modifier:**  
**Engine Model:** IO-360-B1E  
**Power:** 180 HP @ 2700 RPM  
**Placard/Restr:** Avoid continuous operation between 2000-2250 RPM

**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 24.0 +/-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

# HARTZELL

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SORRELL

IDS No.: 2775      Rev.: 1      IC      Date: 07/07/2015

**Model:** SNS-7  
**Trade Name:** HYPERBIPE  
**Aircraft T.C./STC:** Experimental  
**Propeller Model:** HC-C2YR-4CF  
**Propeller T.C.:** P-920

**Modifier:**  
**Engine Model:** IO-360 SERIES  
**Power:** 200 HP @ 2700 RPM  
**Placard/Restr:** Avoid continuous operation between 2000 and 2350 RPM.

**Blade Model(s):** FC7666A-2  
 FC7666A-4  
**Prop Diameter:** 74"-72"

**Notes:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.5 +-0.2  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 29.0 +-1.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>            | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|-------------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | C2R00231           | HC-C2YR-4CF/FC7666A-2/SM8     | 1               | A/C            |                          |
| BLADE            | FC7666A-2          | PCP:BLADE UNIT, B-3202H-6 CWT | 2               | Prop           |                          |
| BLADE            | FC7666A-4          | PCP:BLADE UNIT, B-3202H-6 CWT | 2               | Prop           |                          |
| SPINNER          | 836-52             | SPINNER ASSEMBLY              | 1               | Prop           |                          |
| SPINNER          | 836-52P            | SPINNER ASSEMBLY              | 1               | Prop           |                          |
| SPINNER          | 836-60             | SPINNER ASSEMBLY              | 1               | Prop           |                          |
| SPINNER          | 836-60P            | SPINNER ASSEMBLY              | 1               | Prop           |                          |
| SPIN MTG KIT     | A-2476-8           | SPINNER - MTG KIT             | 1               | Prop           |                          |
| COUNTERWEIGHT    | B-3202H-6          | PCP:COUNTERWEIGHT             | 1               | Blade          | Blade Component          |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20        | 6               | Prop           |                          |
| OVERHAUL KIT     | HC-C2YR-4CF-OH     | O/H KIT                       | 1               | Prop           | For aftermarket use only |

# HARTZELL

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### SPARTON

**Model:** 7W  
**Trade Name:**  
**Aircraft T.C./STC:** STC-SA4-1408  
**Propeller Model:** HC-B3Z30-1E  
**Propeller T.C.:**  
**Blade Model(s):** 10152-5.5  
 10152N-5.5  
**Prop Diameter:** 96"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:**  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

#### Hartzell Approved Items:

| Item Type | Item Number | Description               | Quantity | Qty Per | Comments |
|-----------|-------------|---------------------------|----------|---------|----------|
| BLADE     | 10152-5.5   | BLADE                     | 3        | Prop    |          |
| BLADE     | 10152N-5.5  | BLADE                     | 3        | Prop    |          |
| SPINNER   | 836-32SPR   | SPINNER ASSEMBLY          | 1        | Prop    |          |
| GOVERNOR  | C3          | GOVERNOR ASSEMBLY, C-3(-) | 1        | A/C     |          |

**IDS No.:** 964      **Rev.:** -      **DM Date:** 10/01/1992

**Modifier:** WEST COAST PROP.

**Engine Model:**

**Power:** HP @ RPM

**Placard/Restr:**

**Notes:**

**Startlock Angle:**

**Feather/High Angle:**

**Cwt Angle:** Positive

**Non-HPI Governor:**

### STAUDACHER AIRCRAFT

**Model:** STAUDACHER 300  
**Trade Name:**  
**Aircraft T.C./STC:** EXPERIMENTAL  
**Propeller Model:** HC-C3YR-4A  
**Propeller T.C.:** P25EA  
**Blade Model(s):** C7690E  
**Prop Diameter:** 78" NO CUT OFF

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 11.2 +-0.1  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

#### Hartzell Approved Items:

| Item Type     | Item Number   | Description               | Quantity | Qty Per | Comments                 |
|---------------|---------------|---------------------------|----------|---------|--------------------------|
| PROPELLER     | C3R00281      | HC-C3YR-4A/C7690E/SM6     | 1        | A/C     |                          |
| BLADE         | C7690E        | PCP:BLADE ASSY, COMPOSITE | 3        | Prop    |                          |
| SPINNER       | D-7267        | SPINNER ASSEMBLY          | 1        | Prop    |                          |
| SPINNER       | D-7267-P      | SPINNER ASSEMBLY          | 1        | Prop    |                          |
| GOVERNOR      | F6-66         | GOVERNOR ASSEMBLY, F-6(-) | 1        | A/C     |                          |
| GOVERNOR      | F6-66Z        | IDS Item                  | 1        | A/C     |                          |
| SPIN MTG KIT  | A-2476-6      | SPINNER - MTG KIT         | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2067        | STUD, MOUNTING, 1/2-20    | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-C3YR-4A-OH | O/H KIT                   | 1        | Prop    | For aftermarket use only |

**IDS No.:** 2692      **Rev.:** 1      **IC Date:** 07/15/2015

**Modifier:**

**Engine Model:** AEIO-540

**Power:** 280 HP @ 2700 RPM

**Placard/Restr:**

**Notes:** Counterweighted version of IDS no. 1353

**Startlock Angle:** NA

**Feather/High Angle:** 32.0 +-1.0

**Cwt Angle:**

**Non-HPI Governor:**

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### STAUDACHER AIRCRAFT

**Model:** STAUDACHER S-1000  
**Trade Name:**  
**Aircraft T.C./STC:** Experimental  
**Propeller Model:** HC-C3YR-1RF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** F8068  
**Prop Diameter:** 82"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.3 +-0.2  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

#### Hartzell Approved Items:

| Item Type     | Item Number    | Description                  | Quantity | Qty Per | Comments                 |
|---------------|----------------|------------------------------|----------|---------|--------------------------|
| PROPELLER     | C3R00065       | HC-C3YR-1RF/F8068/SM6        | 1        | A/C     |                          |
| BLADE         | F8068          | PCP:BLADE UNIT, ALUM [1,1,5] | 3        | Prop    |                          |
| SPINNER       | C-3570-P       | SPINNER ASSEMBLY             | 1        | Prop    |                          |
| SPIN MTG KIT  | A-2476-6       | SPINNER - MTG KIT            | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2067         | STUD, MOUNTING, 1/2-20       | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-C3YR-1RF-OH | O/H KIT                      | 1        | Prop    | For aftermarket use only |

**IDS No.:** 1352      **Rev.:** 1      **IC Date:** 07/16/2015

**Modifier:**

**Engine Model:** IO-540-D4A5

**Power:** 260 HP @ 2700 RPM

**Placard/Restr:**

**Notes:**

**Startlock Angle:** NA

**Feather/High Angle:** 31.0 +-1.0

**Cwt Angle:**

**Non-HPI Governor:**

### STAUDACHER AIRCRAFT

**Model:** STAUDACHER 300  
**Trade Name:**  
**Aircraft T.C./STC:** Experimental  
**Propeller Model:** HC-C3YR-1A  
**Propeller T.C.:** P25EA  
**Blade Model(s):** 7690C  
 7690E  
**Prop Diameter:** 78" NO CUT OFF

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 11.6 +-0.1  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

#### Hartzell Approved Items:

| Item Type     | Item Number   | Description                  | Quantity | Qty Per | Comments                   |
|---------------|---------------|------------------------------|----------|---------|----------------------------|
| PROPELLER     | C3R00015      | HC-C3YR-1A/7690E/SM6         | 1        | A/C     |                            |
| PROPELLER     | C3R00015KD    | HC-C3YR-1A/7690E/SM6         | 1        | A/C     |                            |
| BLADE         | 7690C         | BLADE ASSEMBLY, COMPOSITE    | 3        | Prop    | SUPERSEDED BY 7690E        |
| BLADE         | 7690E         | PCP:BLADE ASSY, COMP [3,1,1] | 3        | Prop    | Supersedes 7690C           |
| SPINNER       | C-3570-P      | SPINNER ASSEMBLY             | 1        | Prop    |                            |
| SPINNER       | D-6936-P      | SPINNER ASSEMBLY             | 1        | Prop    | REQ'D IF USING 7690E BLADE |
| GOVERNOR      | E2-5          | GOVERNOR ASSEMBLY, E-2(-)    | 1        | A/C     |                            |
| SPIN MTG KIT  | A-2476-6      | SPINNER - MTG KIT            | 1        | Prop    |                            |
| MTG BOLT/STUD | A-2067        | STUD, MOUNTING, 1/2-20       | 6        | Prop    |                            |
| OVERHAUL KIT  | HC-C3YR-1A-OH | O/H KIT                      | 1        | Prop    | For aftermarket use only   |

**IDS No.:** 1353      **Rev.:** 1      **IC Date:** 07/16/2015

**Modifier:**

**Engine Model:** AEIO-540

**Power:** 280 HP @ 2700 RPM

**Placard/Restr:**

**Notes:** Governor requires A-3144-2 Governor Drive Extension and C-6059X Valve Assembly with B-1104 Gasket

**Startlock Angle:** NA

**Feather/High Angle:** 32.0 +-1.0

**Cwt Angle:**

**Non-HPI Governor:**

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### STAUDACHER AIRCRAFT

**Model:** STAUDACHER 300  
**Trade Name:**  
**Aircraft T.C./STC:** Experimental  
**Propeller Model:** HC-C2YR-4CF  
**Propeller T.C.:** P-920  
**Blade Model(s):** FC8477A-4\*1  
**Prop Diameter:** 80"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 14.2 +-0.1  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 1354      **Rev.:** 1      **IC Date:** 07/07/2015

**Modifier:**  
**Engine Model:** IO-540-K  
**Power:** 300 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 33.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

#### Hartzell Approved Items:

| Item Type     | Item Number    | Description                   | Quantity | Qty Per | Comments                 |
|---------------|----------------|-------------------------------|----------|---------|--------------------------|
| PROPELLER     | C2R00261       | HC-C2YR-4CF/FC8477A-4[*1]/SM8 | 1        | A/C     |                          |
| BLADE         | FC8477A-4*1    | PCP:BLADE UNIT, B-3202H-8     | 2        | Prop    |                          |
| SPINNER       | 836-60         | SPINNER ASSEMBLY              | 2        | Prop    |                          |
| SPINNER       | 836-60P        | SPINNER ASSEMBLY              | 1        | Prop    |                          |
| SPIN MTG KIT  | A-2476-8       | SPINNER - MTG KIT             | 1        | Prop    |                          |
| COUNTERWEIGHT | B-3202H-8      | PCP:COUNTERWEIGHT             | 1        | Blade   | Blade Component          |
| MTG BOLT/STUD | A-2067         | STUD, MOUNTING, 1/2-20        | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-C2YR-4CF-OH | O/H KIT                       | 1        | Prop    | For aftermarket use only |

### STEEN (See also STOLP)

**Model:** SKYBOLT  
**Trade Name:**  
**Aircraft T.C./STC:** Experimental  
**Propeller Model:** HC-C2YR-4BF, -4CF  
**Propeller T.C.:** P-920  
**Blade Model(s):** FC7666A-2  
**Prop Diameter:** 74"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 14.0 +-0.1  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 968      **Rev.:** 1      **IC Date:** 07/07/2015

**Modifier:**  
**Engine Model:** IO-360-A1B, C1E6  
**Power:** 200 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 28.5 +-1.5  
**Cwt Angle:**

**Non-HPI Governor:**

#### Hartzell Approved Items:

| Item Type     | Item Number    | Description                   | Quantity | Qty Per | Comments                 |
|---------------|----------------|-------------------------------|----------|---------|--------------------------|
| PROPELLER     | C2R00229       | HC-C2YR-4CF/FC7666A-2/SM8     | 1        | A/C     |                          |
| BLADE         | FC7666A-2      | PCP:BLADE UNIT, B-3202H-6 CWT | 2        | Prop    |                          |
| SPINNER       | 836-52         | SPINNER ASSEMBLY              | 1        | Prop    | Replaced by -60?         |
| GOVERNOR      | F6-3A          | GOVERNOR ASSEMBLY, F-6-( )    | 1        | A/C     |                          |
| SPIN MTG KIT  | A-2476-8       | SPINNER - MTG KIT             | 1        | Prop    |                          |
| COUNTERWEIGHT | B-3202H-6      | PCP:COUNTERWEIGHT             | 1        | Blade   | Blade Component          |
| MTG BOLT/STUD | A-2067         | STUD, MOUNTING, 1/2-20        | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-C2YR-4CF-OH | O/H KIT                       | 1        | Prop    | For aftermarket use only |

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**STEEN (See also STOLP)**

**Model:** SKYBOLT  
**Trade Name:**  
**Aircraft T.C./STC:** Experimental  
**Propeller Model:** HC-C2YR-4BF, -4CF  
**Propeller T.C.:** P-920  
**Blade Model(s):** FC7666A-2  
**Prop Diameter:** 74"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.5 +-0.1  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 1355      **Rev.:** -      **DM Date:** 02/03/2005

**Modifier:**  
**Engine Model:** IO-360-A1A  
**Power:** 200 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 24.0 +-0.5  
**Cwt Angle:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>            | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>            |
|------------------|--------------------|-------------------------------|-----------------|----------------|----------------------------|
| BLADE            | FC7666A-2          | PCP:BLADE UNIT, B-3202H-6 CWT | 2               | Prop           |                            |
| SPINNER          | 835-41             | SPINNER ASSEMBLY              | 1               | Prop           |                            |
| SPINNER          | 836-52             | SPINNER ASSEMBLY              | 1               | Prop           | For -4CF                   |
| SPINNER          | C-2513-5           | SPINNER ASSEMBLY              | 1               | Prop           |                            |
| GOVERNOR         | F6-3A              | GOVERNOR ASSEMBLY, F-6-()     | 1               | Prop           |                            |
| SPIN MTG KIT     | A-2476-8           | SPINNER - MTG KIT             | 1               | Prop           | 836-52 spinner only (-4CF) |
| COUNTERWEIGHT    | B-3202H-6          | PCP:COUNTERWEIGHT             | 1               | Blade          | Blade Component            |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20        | 6               | Prop           |                            |

**STEEN (See also STOLP)**

**Model:** SKYBOLT  
**Trade Name:**  
**Aircraft T.C./STC:** Experimental  
**Propeller Model:** HC-C2YK-4F  
**Propeller T.C.:** P-920  
**Blade Model(s):** FC8477A-7  
**Prop Diameter:** 77"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 14.5 +-0.1  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 970      **Rev.:** -      **DM Date:** 10/05/2005

**Modifier:** UNIVAIR  
**Engine Model:** IO-540-C4B5  
**Power:** 250 HP @ 2575 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 29.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u>   | <u>Item Number</u> | <u>Description</u>        | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|--------------------|--------------------|---------------------------|-----------------|----------------|-----------------|
| BLADE              | FC8477A-7          | PCP:BLADE UNIT, ALUMINUM  | 2               | Prop           |                 |
| SPINNER            | 835-33             | SPINNER ASSEMBLY          | 1               | Prop           |                 |
| GOVERNOR           | F6-5A              | GOVERNOR ASSEMBLY, F-6-() | 1               | A/C            |                 |
| COUNTERWEIGHT      | B-3202-11          | PCP:COUNTERWEIGHT         | 1               | Blade          | Blade Component |
| COUNTERWEIGHT SLUG | A-890-15           | PCP:SLUG, COUNTERWEIGHT   | 1               | Blade          | Blade Component |
| COUNTERWEIGHT SLUG | B-3384-9H          | BOLT, 1/4-28, HEX HEAD    | 2               | Blade          |                 |
| COUNTERWEIGHT SLUG | B-3851-0463        | WASHER                    | 2               | Blade          |                 |
| MTG BOLT/STUD      | A-2067             | STUD, MOUNTING, 1/2-20    | 6               | Prop           |                 |

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STEEN (See also STOLP)

**Model:** SKYBOLT  
**Trade Name:**  
**Aircraft T.C./STC:** Experimental  
**Propeller Model:** HC-C3YR-1A  
**Propeller T.C.:** P25EA  
**Blade Model(s):** 7690E  
**Prop Diameter:** 78" NO CUT OFF

**IDS No.:** 1356      **Rev.:** 3      **IC Date:** 10/19/2021

**Modifier:**  
**Engine Model:** AEIO-540-D4A5  
**Power:** 260 HP @ 2700 RPM  
**Placard/Restr:**

**Notes:** Governor requires A-3144-2 Governor Drive Extension and C-6059 Valve Assembly with B-1104 Gasket. Use 8907-001 Accumulator

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 10.7 +-0.1  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 32.0 +-1.0  
**Cwt Angle:**

### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>           | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|------------------------------|-----------------|----------------|-----------------|
| BLADE            | 7690E              | PCP:BLADE ASSY, COMP [3,1,1] | 3               | Prop           |                 |
| SPINNER          | C-3570-P           | SPINNER ASSEMBLY             | 1               | Prop           | w/ 7690C blades |
| SPINNER          | D-6936-P           | SPINNER ASSEMBLY             | 1               | Prop           |                 |
| GOVERNOR         | E2-5               | GOVERNOR ASSEMBLY, E-2-( )   | 1               | A/C            |                 |
| SPIN MTG KIT     | A-2476-6           | SPINNER - MTG KIT            | 1               | Prop           |                 |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20       | 6               | Prop           |                 |



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STEEN (See also STOLP)

IDS No.: 3849 Rev.: - IC Date: 11/17/2021

Model: SKYBOLT

Modifier:

Trade Name:

Engine Model: AEIO-540-D4A5

Aircraft T.C./STC: Experimental

Power: 260 HP @ 2700 RPM

Propeller Model: HC-C3YR-4A

Placard/Restr:

Propeller T.C.: P25EA

Notes:

Blade Model(s): C7690E

Prop Diameter: 78" NO CUT OFF

### Prop Setup:

Ref. Radius: 30

Startlock Angle: NA

Reverse Angle: NA

Feather/High Angle: 32.0 +-1.0

Low Pitch Angle: 10.7 +-0.1

Cwt Angle:

Stud Protrusion

### Non-HPI Items:

Non-HPI Spinner:

Non-HPI Governor:

### Hartzell Approved Items:

| Item Type                   | Item Number   | Description                 | Quantity | Qty Per | Comments |
|-----------------------------|---------------|-----------------------------|----------|---------|----------|
| PROPELLER                   | C3R00286      | HC-C3YR-4A/C7690E/SM6       | 1        | A/C     |          |
| BLADE                       | C7690E        | PCP:BLADE ASSY, COMPOSITE   | 3        | Prop    |          |
| SPINNER                     | D-7267-P      | SPINNER ASSEMBLY            | 1        | Prop    |          |
| GOVERNOR                    | F6-59Z        | GOVERNOR ASSEMBLY, F-6-()   | 1        | A/C     |          |
| SPIN MTG KIT                | A-2476-6      | SPINNER - MTG KIT           | 1        | Prop    |          |
| COUNTERWEIGHT               | D-7248        | PCP:CLAMP, COUNTERWEIGHT    | 1        | Blade   |          |
| COUNTERWEIGHT SLUG A-1744   |               | BOLT,3/8-24,HEX HEAD        | 2        | Blade   |          |
| COUNTERWEIGHT SLUG A-2043-1 |               | NUT,3/8-24,HEX,SELF-LOCKING | 2        | Blade   |          |
| COUNTERWEIGHT SLUG C-7249   |               | SLUG, COUNTERWEIGHT         | 2        | Blade   |          |
| MTG BOLT/STUD               | A-2067        | STUD, MOUNTING, 1/2-20      | 6        | Prop    |          |
| OVERHAUL KIT                | HC-C3YR-4A-OH | O/H KIT                     | 1        | Prop    |          |

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**STEEN (See also STOLP)**

**Model:** SKYBOLT  
**Trade Name:**  
**Aircraft T.C./STC:** Experimental  
**Propeller Model:** HC-C3YR-1A  
**Propeller T.C.:** P25EA  
**Blade Model(s):** 7690E  
**Prop Diameter:** 78" NO CUT OFF

**IDS No.:** 1357      **Rev.:** -      **DM Date:** 02/02/2005

**Modifier:**  
**Engine Model:** AEIO-540-A2B (MOD)  
**Power:** 320 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:** Governor requires A-3144-2 Governor Drive Extension and C-6059X Valve Assembly with B-1104 Gasket. Use C-6059 Valve Assembly 8907-001 Accumulator

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.2 +-0.1  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 32.0 +-1.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>           | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|------------------------------|-----------------|----------------|-----------------|
| BLADE            | 7690E              | PCP:BLADE ASSY, COMP [3,1,1] | 3               | Prop           |                 |
| SPINNER          | C-3570-P           | SPINNER ASSEMBLY             | 1               | Prop           | w/ 7690C blades |
| SPINNER          | D-6936-P           | SPINNER ASSEMBLY             | 1               | Prop           |                 |
| GOVERNOR         | E2-1               | GOVERNOR ASSEMBLY, E-2-()    | 1               | A/C            |                 |
| SPIN MTG KIT     | A-2476-6           | SPINNER - MTG KIT            | 1               | Prop           |                 |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20       | 6               | Prop           |                 |

**STEEN AERO LAB**

**Model:**  
**Trade Name:** SKYBOLT  
**Aircraft T.C./STC:** Experimental  
**Propeller Model:** HC-C2YR-4CF  
**Propeller T.C.:** P-920  
**Blade Model(s):** FC8477A-4\*1  
**Prop Diameter:** 80"

**IDS No.:** 2533      **Rev.:** 1      **IC Date:** 07/07/2015

**Modifier:**  
**Engine Model:** IO-540-C4B5  
**Power:** 250 HP @ 2575 RPM  
**Placard/Restr:**  
**Notes:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 11.0 +-0.1  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 33.0 +-1.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>            | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|-------------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | C2R00260           | HC-C2YR-4CF/FC8477A-4[*1]/SM8 | 1               | A/C            |                          |
| BLADE            | FC8477A-4*1        | PCP:BLADE UNIT, B-3202H-8     | 2               | Prop           |                          |
| SPIN MTG KIT     | A-2476-8           | SPINNER - MTG KIT             | 1               | Prop           |                          |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20        | 6               | Prop           |                          |
| OVERHAUL KIT     | HC-C2YR-4CF-OH     | O/H KIT                       | 1               | Prop           | For aftermarket use only |

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STEWART 51 INC.

**Model:** S51D  
**Trade Name:** STEWART 51  
**Aircraft T.C./STC:** Experimental  
**Propeller Model:** HC-B4TN-1X1  
**Propeller T.C.:**

**IDS No.:** 1387      **Rev.:** 2      **D**      **Date:** 05/31/2013

**Modifier:**  
**Engine Model:** GIVL-454A  
**Power:** 400 HP @ 2275 RPM  
**Placard/Restr:** Avoid continuous ground operation between 800 and 1100 propeller RPM. Avoid continuous operation between 1950 and 2100 propeller RPM above 22" manifold pressure.

**Blade Model(s):** T9212N-2  
**Prop Diameter:** 91" to 90"

**Notes:** Obsolete for new installations

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 14.0 +-0.2  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 51.5 +-1.0  
**Cwt Angle:** 17

### Non-HPI Items:

**Non-HPI Spinner:** STEWART

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u>               | <u>Item Number</u> | <u>Description</u>                | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|--------------------------------|--------------------|-----------------------------------|-----------------|----------------|-----------------|
| BLADE                          | T9212N-2           | PCP:BLADE UNIT, ALUM [1,1,1]      | 4               | Prop           |                 |
| GOVERNOR                       | F6-72              | GOVERNOR ASSEMBLY, F-6-( )        | 1               | A/C            |                 |
| GOVERNOR                       | F6-72Z             | IDS Item                          | 1               | A/C            |                 |
| COUNTERWEIGHT SLUG A-3039      |                    | SLUG. COUNTERWEIGHT               | 1               | Blade          |                 |
| COUNTERWEIGHT SLUG A-890-6     |                    | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          |                 |
| COUNTERWEIGHT SLUG B-3384-21H  |                    | BOLT, 1/4-28, HEX HEAD            | 2               | Blade          |                 |
| COUNTERWEIGHT SLUG B-3851-0432 |                    | WASHER                            | 2               | Blade          | Alternate       |
| COUNTERWEIGHT SLUG B-3851-0463 |                    | WASHER                            | 2               | Blade          | Primary         |
| MTG BOLT/STUD                  | B-3339             | BOLT, MOUNTING, 9/16-18, 12 POINT | 8               | Prop           |                 |

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### STEWART 51 INC.

**Model:** S51D  
**Trade Name:** STEWART 51  
**Aircraft T.C./STC:** Experimental  
**Propeller Model:** HC-B4TN-1AX2  
**Propeller T.C.:**

**Blade Model(s):** T10178N-11\*1X  
**Prop Diameter:** 91.5" to 90.5"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 17.1 +-0.2  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:** STEWART

#### Hartzell Approved Items:

| Item Type                      | Item Number   | Description                       | Quantity | Qty Per | Comments  |
|--------------------------------|---------------|-----------------------------------|----------|---------|-----------|
| PROPELLER                      | B4N10032X     | HC-B4TN-1AX2/T10178N-11[*1]X      | 1        | A/C     |           |
| BLADE                          | T10178N-11*1X | PCP:BLADE UNIT, ALUM [3,6,4]      | 4        | Prop    |           |
| GOVERNOR                       | F6-72X        | IDS Item                          | 1        | A/C     |           |
| GOVERNOR                       | F6-72ZX       | IDS Item                          | 1        | A/C     |           |
| COUNTERWEIGHT SLUG A-3039      |               | SLUG, COUNTERWEIGHT               | 1        | Blade   |           |
| COUNTERWEIGHT SLUG A-890-6     |               | PCP:SLUG, COUNTERWEIGHT           | 1        | Blade   |           |
| COUNTERWEIGHT SLUG B-3384-21H  |               | BOLT, 1/4-28, HEX HEAD            | 2        | Blade   |           |
| COUNTERWEIGHT SLUG B-3851-0432 |               | WASHER                            | 2        | Blade   | Alternate |
| COUNTERWEIGHT SLUG B-3851-0463 |               | WASHER                            | 2        | Blade   | Primary   |
| MTG BOLT/STUD                  | B-3339        | BOLT, MOUNTING, 9/16-18, 12 POINT | 8        | Prop    |           |

**IDS No.:** 1386      **Rev.:** 2      **D**      **Date:** 05/31/2013

**Modifier:**  
**Engine Model:** GIV-502A  
**Power:** 500 HP @ 2230 RPM  
**Placard/Restr:** Avoid continuous ground operation between 1050 and 1400 propeller RPM (2236 - 2982 engine RPM)

#### Notes:

**Startlock Angle:** NA  
**Feather/High Angle:** 54.2 +-1.0  
**Cwt Angle:** 20 +-1.0

**Non-HPI Governor:**

### STINSON

**Model:** 108-1, -2, -3  
**Trade Name:**  
**Aircraft T.C./STC:** STC-SA4-46  
**Propeller Model:** HC-12V20-8, HC-D2V20-8, HC-12V20-8D  
**Propeller T.C.:** P48GL  
**Blade Model(s):** V8433-6  
**Prop Diameter:** 78" - 76.5"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 10.0 +-0.2  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

#### Hartzell Approved Items:

| Item Type     | Item Number | Description                | Quantity | Qty Per | Comments |
|---------------|-------------|----------------------------|----------|---------|----------|
| BLADE         | V8433-6     | BLADE                      | 2        | Prop    |          |
| COUNTERWEIGHT | 833-23      | IDS Item                   | 1        | Blade   |          |
| MTG BOLT/STUD | A-63B       | PCP: NUT, SHAFT, 20 SPLINE | 1        | Prop    |          |

**IDS No.:** 2288      **Rev.:** 1      **D**      **Date:** 01/07/2011

**Modifier:** SERV-AERO ENG.  
**Engine Model:** O-435-1  
**Power:** 190 HP @ 2550 RPM  
**Placard/Restr:**

#### Notes:

**Startlock Angle:** NA  
**Feather/High Angle:** 20.5 +-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:**

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STINSON

**Model:** 108-1, -2, -3  
**Trade Name:**  
**Aircraft T.C./STC:** STC-SA4-46  
**Propeller Model:** HC-12X20-8, HC-D2X20-8, HC-12X20-8D  
**Propeller T.C.:** P48GL  
**Blade Model(s):** 8433-6  
**Prop Diameter:** 78" TO 76.5"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 10.0 +/-0.2  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>         | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|----------------------------|-----------------|----------------|-----------------|
| BLADE            | 8433-6             | BLADE                      | 2               | Prop           |                 |
| MTG BOLT/STUD    | A-63B              | PCP: NUT, SHAFT, 20 SPLINE | 1               | Prop           |                 |

**IDS No.:** 2287      **Rev.:** 1      **D**      **Date:** 01/07/2011

**Modifier:** SERV-AERO ENG.  
**Engine Model:** O-435-1  
**Power:** 190 HP @ 2550 RPM  
**Placard/Restr:**

**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 20.5 +/-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:**

STINSON

**Model:** 108-1, -2, -3  
**Trade Name:**  
**Aircraft T.C./STC:** STC-SA4-46  
**Propeller Model:** HC-D2MV20-8  
**Propeller T.C.:** P48GL  
**Blade Model(s):** MV8433N-6  
**Prop Diameter:** 78" TO 76.5"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 10.0 +/-0.2  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>         | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|----------------------------|-----------------|----------------|-----------------|
| BLADE            | MV8433N-6          | PCP:BLADE UNIT, ALUMINUM   | 2               | Prop           |                 |
| MTG BOLT/STUD    | A-63B              | PCP: NUT, SHAFT, 20 SPLINE | 1               | Prop           |                 |

**IDS No.:** 977      **Rev.:** 1      **D**      **Date:** 01/10/2011

**Modifier:** SERV-AERO ENG.  
**Engine Model:** O-435-1  
**Power:** 190 HP @ 2550 RPM  
**Placard/Restr:**

**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 20.5 +/-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:**

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STINSON

**Model:** 108-2,-3  
**Trade Name:**  
**Aircraft T.C./STC:** STC-SA1199WE  
**Propeller Model:** HC-A2XF-1A, HC-82XF-1A  
**Propeller T.C.:** P24EA  
**Blade Model(s):** 8433  
**Prop Diameter:** 84.3"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:**  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u> | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|--------------------|-----------------|----------------|-----------------|
| BLADE            | 8433               | BLADE              | 2               | Prop           |                 |
| SPINNER          | 835-13             | SPINNER ASSEMBLY   | 1               | Prop           |                 |

**IDS No.:** 2283      **Rev.:** -      **DM Date:** 11/20/2003

**Modifier:** PDX AIRCRAFT  
**Engine Model:** O-470-A, -J, -K, -L  
**Power:** 225 HP @ 2600 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:**  
**Cwt Angle:** Positive

**Non-HPI Governor:**

STINSON

**Model:** 108-2,-3  
**Trade Name:**  
**Aircraft T.C./STC:** STC-SA1199WE  
**Propeller Model:** HC-A2MVF-1A  
**Propeller T.C.:** P24EA  
**Blade Model(s):** MV8433N  
**Prop Diameter:** 84.3"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:**  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>           | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|------------------------------|-----------------|----------------|-----------------|
| BLADE            | MV8433N            | PCP:BLADE UNIT, ALUM [1,1,1] | 2               | Prop           |                 |
| SPINNER          | 835-13             | SPINNER ASSEMBLY             | 1               | Prop           |                 |

**IDS No.:** 975      **Rev.:** -      **DM Date:** 05/18/1998

**Modifier:** PDX AIRCRAFT  
**Engine Model:** O-470-A, -J, -K, -L  
**Power:** 225 HP @ 2600 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:**  
**Cwt Angle:** Positive

**Non-HPI Governor:**

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**STINSON**

**Model:** 108-2,-3  
**Trade Name:**  
**Aircraft T.C./STC:** STC-SA1199WE  
**Propeller Model:** HC-A2VF-1, HC-A2VF-1A,  
 HC82VF-1A  
**Propeller T.C.:** P24EA  
**Blade Model(s):** V8433  
 V8433N  
**Prop Diameter:** 84.3"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:**  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type | Item Number | Description      | Quantity | Qty Per | Comments |
|-----------|-------------|------------------|----------|---------|----------|
| BLADE     | V8433       | BLADE            | 2        | Prop    |          |
| BLADE     | V8433N      | BLADE            | 2        | Prop    |          |
| SPINNER   | 835-13      | SPINNER ASSEMBLY | 1        | Prop    |          |

**IDS No.:** 2284 **Rev.:** - **DM Date:** 11/20/2003

**Modifier:** PDX AIRCRAFT  
**Engine Model:** O-470-A, -J, -K, -L  
**Power:** 225 HP @ 2600 RPM  
**Placard/Restr:**

**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:**  
**Cwt Angle:** Positive

**Non-HPI Governor:**

**STINSON**

**Model:** 108-1, 108-2, 108-3  
**Trade Name:** VOYAGER  
**Aircraft T.C./STC:** SA313NW  
**Propeller Model:** HC-C2YF-1BF  
**Propeller T.C.:** P-920  
**Blade Model(s):** F8459A-4  
 F8459A-4Q  
**Prop Diameter:** 80" TO 76"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 10.0 +-0.2  
**Stud Protrusion** 1.450 +-0.030

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number    | Description               | Quantity | Qty Per | Comments                 |
|---------------|----------------|---------------------------|----------|---------|--------------------------|
| PROPELLER     | C2F00321       | HC-C2YF-1BF/F8459A-4Q/SM2 | 1        | A/C     |                          |
| PROPELLER     | C2F00325       | HC-C2YF-1BF/F8459A-4/SM2  | 1        | A/C     |                          |
| BLADE         | F8459A-4       | PCP:BLADE UNIT, ALUMINUM  | 2        | Prop    |                          |
| BLADE         | F8459A-4Q      | PCP:BLADE UNIT, ALUMINUM  | 2        | Prop    |                          |
| SPINNER       | A-4203         | SPINNER ASSEMBLY          | 1        | Prop    |                          |
| SPINNER       | A-4203-P       | SPINNER ASSEMBLY          | 1        | Prop    |                          |
| SPIN MTG KIT  | A-2476-2       | SPINNER - MTG KIT         | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2429-4       | STUD, MOUNTING, 1/2-20    | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-C2YF-1BF-OH | O/H KIT                   | 1        | Prop    | For aftermarket use only |

**IDS No.:** 1741 **Rev.:** 2 **IC Date:** 07/24/2020

**Modifier:** FRANKLIN AIRCRAFT ENGINES  
**Engine Model:** 6A-350-C1, -C2  
**Power:** 220 HP @ 2800 RPM  
**Placard/Restr:**

**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 30.0 +-1.0  
**Cwt Angle:** NA

**Non-HPI Governor:**

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STINSON

**Model:** 108-2,-3  
**Trade Name:**  
**Aircraft T.C./STC:** STC-SA4-398  
**Propeller Model:** HC-12X20-8, HC-D2X20-8  
**Propeller T.C.:** P48GL  
**Blade Model(s):** 8433-6  
**Prop Diameter:** 78" TO 86.5"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 10.0 +/-0.2  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 2285      **Rev.:** -      **DM Date:** 11/20/2003

**Modifier:** SERV-AERO ENG.  
**Engine Model:** O-435-C  
**Power:** 190 HP @ 2550 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 20.5 +/-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u> | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|--------------------|-----------------|----------------|-----------------|
| BLADE            | 8433-6             | BLADE              | 2               | Prop           |                 |
| COUNTERWEIGHT    | 833-18             | IDS Item           | 1               | Blade          |                 |

STINSON

**Model:** 108-2,-3  
**Trade Name:**  
**Aircraft T.C./STC:** STC-SA4-398  
**Propeller Model:** HC-12V20-8, HC-D2V20-8  
**Propeller T.C.:** P48GL  
**Blade Model(s):** V8433-6  
V8433N-6  
**Prop Diameter:** 78" TO 86.5"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 10.0 +/-0.2  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 2286      **Rev.:** -      **DM Date:** 11/20/2003

**Modifier:** SERV-AERO ENG.  
**Engine Model:** O-435-C  
**Power:** 190 HP @ 2550 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 20.5 +/-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u> | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|--------------------|-----------------|----------------|-----------------|
| BLADE            | V8433-6            | BLADE              | 2               | Prop           |                 |
| BLADE            | V8433N-6           | BLADE              | 2               | Prop           |                 |
| COUNTERWEIGHT    | 833-18             | IDS Item           | 1               | Blade          |                 |



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**STINSON**

**Model:** 108-2,-3  
**Trade Name:**  
**Aircraft T.C./STC:** STC-SA4-398  
**Propeller Model:** HC-D2MV20-8  
**Propeller T.C.:** P48GL  
**Blade Model(s):** MV8433N-6  
**Prop Diameter:** 78" TO 86.5"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 10.0 +-0.2  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number | Description              | Quantity | Qty Per | Comments |
|---------------|-------------|--------------------------|----------|---------|----------|
| BLADE         | MV8433N-6   | PCP:BLADE UNIT, ALUMINUM | 2        | Prop    |          |
| COUNTERWEIGHT | 833-18      | IDS Item                 | 1        | Blade   |          |

**IDS No.:** 976      **Rev.:** -      **DM Date:** 05/18/1998

**Modifier:** SERV-AERO ENG.  
**Engine Model:** O-435-C  
**Power:** 190 HP @ 2550 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 20.5 +-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:**

**STINSON**

**Model:** 108; 108-1,-2,-3  
**Trade Name:**  
**Aircraft T.C./STC:** A767  
**Propeller Model:** HC-12X20-8C, -D2X20-8  
**Propeller T.C.:**  
**Blade Model(s):** 8428-6  
**Prop Diameter:** 78" TO 76.5"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 11.5 +-0.2  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type | Item Number | Description | Quantity | Qty Per | Comments |
|-----------|-------------|-------------|----------|---------|----------|
| BLADE     | 8428-6      | IDS Item    | 2        | Prop    |          |

**IDS No.:** 973      **Rev.:** -      **DM Date:** 10/01/1992

**Modifier:**  
**Engine Model:** O-435-A, -C  
**Power:** 190 HP @ 2550 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 22.5 +-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:**

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**STINSON**

**Model:** 108; 108-1,-2,-3  
**Trade Name:**  
**Aircraft T.C./STC:** A767  
**Propeller Model:** HC-12X20-8C, HC-D2X20-8  
**Propeller T.C.:**  
**Blade Model(s):** 8433-6  
**Prop Diameter:** 78" TO 76.5"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 11.5 +/-0.2  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u> | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|--------------------|-----------------|----------------|-----------------|
| BLADE            | 8433-6             | BLADE              | 2               | Prop           |                 |

**IDS No.:** 2280      **Rev.:** -      **DM Date:** 11/20/2003

**Modifier:**  
**Engine Model:** O-435-A, -C  
**Power:** 190 HP @ 2550 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 22.5 +/-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:**

**STINSON**

**Model:** 108; 108-1,-2,-3  
**Trade Name:**  
**Aircraft T.C./STC:** A-767  
**Propeller Model:** HC-12X20-8, HC-D2X20-8, HC-12X20-8D  
**Propeller T.C.:** P48GL  
**Blade Model(s):** 8433-6  
**Prop Diameter:** 78" TO 76.5"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 11.5 +/-0.2  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>         | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|----------------------------|-----------------|----------------|-----------------|
| BLADE            | 8433-6             | BLADE                      | 2               | Prop           |                 |
| MTG BOLT/STUD    | A-63B              | PCP: NUT, SHAFT, 20 SPLINE | 1               | Prop           |                 |
| MTG BOLT/STUD    | A-63-B             | NUT,SHAFT,20 SPLINE        | 1               | Prop           |                 |

**IDS No.:** 2281      **Rev.:** -      **DM Date:** 11/20/2003

**Modifier:**  
**Engine Model:** O-435-A, -C  
**Power:** 190 HP @ 2550 RPM  
**Placard/Restr:**

**Notes:**  
**Startlock Angle:** NA  
**Feather/High Angle:** 22.5 +/-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:**

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**STINSON**

**Model:** 108; 108-1,-2,-3  
**Trade Name:**  
**Aircraft T.C./STC:** A-767  
**Propeller Model:** HC-12V20-8, HC-D2V20-8, HC-12V20-8D  
**Propeller T.C.:** P48GL  
**Blade Model(s):** V8433-6  
**Prop Diameter:** 78" TO 76.5"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 11.5 +-0.2  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number | Description                | Quantity | Qty Per | Comments |
|---------------|-------------|----------------------------|----------|---------|----------|
| BLADE         | V8433-6     | BLADE                      | 2        | Prop    |          |
| MTG BOLT/STUD | A-63B       | PCP: NUT, SHAFT, 20 SPLINE | 1        | Prop    |          |
| MTG BOLT/STUD | A-63-B      | NUT,SHAFT,20 SPLINE        | 1        | Prop    |          |

**IDS No.:** 2282      **Rev.:** -      **DM Date:** 11/20/2003

**Modifier:**  
**Engine Model:** O-435-A, -C  
**Power:** 190 HP @ 2550 RPM  
**Placard/Restr:**

**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 22.5 +-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:**

**STINSON**

**Model:** 108; 108-1,-2,-3  
**Trade Name:**  
**Aircraft T.C./STC:** A-767  
**Propeller Model:** HC-D2MV20-8  
**Propeller T.C.:** P48GL  
**Blade Model(s):** MV8433N-6  
**Prop Diameter:** 78" TO 76.5"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 11.5 +-0.2  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number    | Description                    | Quantity | Qty Per | Comments                 |
|---------------|----------------|--------------------------------|----------|---------|--------------------------|
| PROPELLER     | D2210032       | HC-D2MV20-8/MV8433N-6/LESS HYD | 1        | A/C     |                          |
| BLADE         | MV8433N-6      | PCP:BLADE UNIT, ALUMINUM       | 2        | Prop    |                          |
| MTG BOLT/STUD | A-63B          | PCP: NUT, SHAFT, 20 SPLINE     | 1        | Prop    |                          |
| MTG BOLT/STUD | A-63-B         | NUT,SHAFT,20 SPLINE            | 1        | Prop    |                          |
| OVERHAUL KIT  | HC-D2MV20-8-OH | O/H KIT                        | 1        | Prop    | For aftermarket use only |

**IDS No.:** 974      **Rev.:** 2      **IC Date:** 07/06/2015

**Modifier:**  
**Engine Model:** O-435-A, -C  
**Power:** 190 HP @ 2550 RPM  
**Placard/Restr:**

**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 22.5 +-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:**

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STINSON

**Model:** 108, 108-1, 108-2, 108-3  
**Trade Name:**  
**Aircraft T.C./STC:** SA964NW  
**Propeller Model:** HC-C2YK-1BF  
**Propeller T.C.:** P-920

**Blade Model(s):** F7666A  
**Prop Diameter:** 76" No Cut Off

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** 14.0+-1  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>           | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|------------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | C2K00006           | HC-C2YK-1BF/F7666A           | 1               | A/C            |                          |
| BLADE            | F7666A             | PCP:BLADE UNIT, ALUM [1,1,1] | 2               | Prop           |                          |
| GOVERNOR         | H1                 | GOVERNOR ASSEMBLY, H-1-( )   | 1               | A/C            |                          |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20       | 6               | Prop           |                          |
| OVERHAUL KIT     | HC-C2YK-1BF-OH     | O/H KIT                      | 1               | Prop           | For aftermarket use only |

**IDS No.:** 3048      **Rev.:** 1      **IC Date:** 07/07/2015

**Modifier:** Stinson Bobcat  
**Engine Model:** O-360-A1A  
**Power:** 180 HP @ 2700 RPM  
**Placard/Restr:** Avoid continuous operation between 2000 and 2250 RPM.

**Notes:**

**Startlock Angle:**  
**Feather/High Angle:** 33.9+-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

STINSON

**Model:** L-5; L-5B,-5C,-5D,-5E,-5E-1,-5G  
**Trade Name:**  
**Aircraft T.C./STC:** A764  
**Propeller Model:** HC-12X20-4  
**Propeller T.C.:**  
**Blade Model(s):** 8428+2  
**Prop Diameter:** 85" TO 83"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 11.5 +-0.2  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u> | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|--------------------|-----------------|----------------|-----------------|
| BLADE            | 8428+2             | IDS Item           | 2               | Prop           |                 |

**IDS No.:** 971      **Rev.:** -      **DM Date:** 10/01/1992

**Modifier:**  
**Engine Model:** O-435-C, -1, -11  
**Power:** 190 HP @ 2550 RPM  
**Placard/Restr:**

**Notes:** Requires FAA 337 form

**Startlock Angle:** NA  
**Feather/High Angle:** 25.5 +-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:**

# HARTZELL

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STINSON

Model: L-5  
Trade Name:  
Aircraft T.C./STC: Unknown  
Propeller Model: HC-D2X20-8  
Propeller T.C.: P917  
Blade Model(s): 8433-6  
Prop Diameter: 78"

### Prop Setup:

Ref. Radius:  
Reverse Angle:  
Low Pitch Angle:  
Stud Protrusion

### Non-HPI Items:

Non-HPI Spinner:

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u> | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|--------------------|-----------------|----------------|-----------------|
| BLADE            | 8433-6             | BLADE              | 2               | Prop           |                 |

IDS No.: 2407 Rev.: - DM Date: 12/01/2003

Modifier: E.G. LEEMAN  
Engine Model: O-435-C  
Power: 190 HP @ 2550 RPM  
Placard/Restr:  
Notes:

Startlock Angle:  
Feather/High Angle:  
Cwt Angle:

Non-HPI Governor:

STINSON

Model: L-5  
Trade Name:  
Aircraft T.C./STC: Unknown  
Propeller Model: HC-D2V20-8  
Propeller T.C.: P48GL  
Blade Model(s): V8433-6  
V8433N-6  
Prop Diameter: 78"

### Prop Setup:

Ref. Radius:  
Reverse Angle:  
Low Pitch Angle:  
Stud Protrusion

### Non-HPI Items:

Non-HPI Spinner:

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u> | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|--------------------|-----------------|----------------|-----------------|
| BLADE            | V8433-6            | BLADE              | 2               | Prop           |                 |
| BLADE            | V8433N-6           | BLADE              | 2               | Prop           |                 |

IDS No.: 2408 Rev.: - DM Date: 12/18/2003

Modifier: E.G. LEEMAN  
Engine Model: O-435-C  
Power: 190 HP @ 2550 RPM  
Placard/Restr:  
Notes:

Startlock Angle:  
Feather/High Angle:  
Cwt Angle:

Non-HPI Governor:

# HARTZELL

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STODDARD HAMILTON

**Model:** GLASAIR  
**Trade Name:**  
**Aircraft T.C./STC:** Experimental  
**Propeller Model:** HC-M2YR-1BF  
**Propeller T.C.:**  
**Blade Model(s):** F7666A-2  
**Prop Diameter:** 74"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.0 +-0.2  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>       | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|--------------------------|-----------------|----------------|-----------------|
| BLADE            | F7666A-2           | PCP:BLADE UNIT, ALUMINUM | 2               | Prop           |                 |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20   | 6               | Prop           |                 |

**IDS No.:** 529      **Rev.:** -      **DM Date:** 10/01/1992

**Modifier:**  
**Engine Model:** IO-360 SERIES  
**Power:** 200 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 35.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

STODDARD HAMILTON

**Model:** GLASAIR II  
**Trade Name:**  
**Aircraft T.C./STC:** Experimental  
**Propeller Model:** HC-C2YL-1BF  
**Propeller T.C.:** P-920  
**Blade Model(s):** F7663D-4  
**Prop Diameter:** 72" TO 70"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.0 +-0.1  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>               | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|----------------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | C2L00052           | HC-C2YL-1BF/F7663D-4/SM8         | 1               | A/C            |                          |
| BLADE            | F7663D-4           | PCP:BLADE UNIT, ALUMINUM         | 2               | Prop           |                          |
| SPIN MTG KIT     | A-2476-8           | SPINNER - MTG KIT                | 1               | Prop           |                          |
| MTG BOLT/STUD    | A-2247-1           | STUD, MOUNTING, 7/16-20, DRILLED | 6               | Prop           |                          |
| OVERHAUL KIT     | HC-C2YL-1BF-OH     | O/H KIT                          | 1               | Prop           | For aftermarket use only |

**IDS No.:** 1811      **Rev.:** 1      **IC Date:** 07/07/2015

**Modifier:**  
**Engine Model:** IO-320 SERIES  
**Power:** 160 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 32.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

# HARTZELL

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STODDARD HAMILTON

**Model:** GLASAIR  
**Trade Name:**  
**Aircraft T.C./STC:** Experimental  
**Propeller Model:** HC-F2YL-1F  
**Propeller T.C.:** P27EA  
**Blade Model(s):** F7663D-4  
F7663D-6  
F7663D-6Q  
**Prop Diameter:** 72 TO 70"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.0 +-0.1  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 530      **Rev.:** 1      **IC Date:** 07/07/2015

**Modifier:**  
**Engine Model:** IO-320 SERIES  
**Power:** 160 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 30.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| Item Type     | Item Number   | Description                      | Quantity | Qty Per | Comments                 |
|---------------|---------------|----------------------------------|----------|---------|--------------------------|
| PROPELLER     | F2L00064      | HC-F2YL-1F/F7663D-4/SM19         | 1        | A/C     |                          |
| BLADE         | F7663D-4      | PCP:BLADE UNIT, ALUMINUM         | 2        | Prop    |                          |
| BLADE         | F7663D-6      | IDS Item                         | 2        | Prop    |                          |
| BLADE         | F7663D-6Q     | PCP:BLADE UNIT, ALUMINUM         | 2        | Prop    |                          |
| SPIN MTG KIT  | A-2476-19     | SPINNER - MTG KIT                | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2247-1      | STUD, MOUNTING, 7/16-20, DRILLED | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-F2YL-1F-OH | O/H KIT                          | 1        | Prop    | For aftermarket use only |

STODDARD HAMILTON

**Model:** GLASAIR II  
**Trade Name:**  
**Aircraft T.C./STC:** Experimental  
**Propeller Model:** HC-F2YR-1F  
**Propeller T.C.:** P27EA  
**Blade Model(s):** F7068-2  
**Prop Diameter:** 68"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.0 +-0.1  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:** STODDARD

**IDS No.:** 1359      **Rev.:** 1      **IC Date:** 07/07/2015

**Modifier:**  
**Engine Model:** IO-360-B1B  
**Power:** 180 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 32.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| Item Type     | Item Number   | Description              | Quantity | Qty Per | Comments                 |
|---------------|---------------|--------------------------|----------|---------|--------------------------|
| PROPELLER     | F2R00071      | HC-F2YR-1F/F7068-2/SM8   | 1        | A/C     |                          |
| BLADE         | F7068-2       | PCP:BLADE UNIT, ALUMINUM | 2        | Prop    |                          |
| SPIN MTG KIT  | A-2476-8      | SPINNER - MTG KIT        | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2067        | STUD, MOUNTING, 1/2-20   | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-F2YR-1F-OH | O/H KIT                  | 1        | Prop    | For aftermarket use only |

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STODDARD HAMILTON

IDS No.: 528 Rev.: 1 IC Date: 07/07/2015

**Model:** GLASAIR II  
**Trade Name:**  
**Aircraft T.C./STC:** Experimental  
**Propeller Model:** HC-C2YK-1BF  
**Propeller T.C.:** P-920  
**Blade Model(s):** F7666A-2  
**Prop Diameter:** 74"

**Modifier:**  
**Engine Model:** IO-360 SERIES  
**Power:** 200 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 14.0 +-0.2  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 29.0 +-2.0  
**Cwt Angle:**

### Non-HPI Items:

**Non-HPI Spinner:** STODDARD

**Non-HPI Governor:**

### Hartzell Approved Items:

| Item Type     | Item Number    | Description              | Quantity | Qty Per | Comments                 |
|---------------|----------------|--------------------------|----------|---------|--------------------------|
| PROPELLER     | C2K00049       | HC-C2YK-1BF/F7666A-2/SM8 | 1        | A/C     |                          |
| BLADE         | F7666A-2       | PCP:BLADE UNIT, ALUMINUM | 2        | Prop    |                          |
| SPIN MTG KIT  | A-2476-8       | SPINNER - MTG KIT        | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2067         | STUD, MOUNTING, 1/2-20   | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-C2YK-1BF-OH | O/H KIT                  | 1        | Prop    | For aftermarket use only |

STODDARD HAMILTON

IDS No.: 532 Rev.: 1 IC Date: 07/07/2015

**Model:** 2 SRG GLASAIR  
**Trade Name:**  
**Aircraft T.C./STC:** Experimental  
**Propeller Model:** HC-C2Y(K,R)-4CF  
**Propeller T.C.:** P-920

**Modifier:**  
**Engine Model:** IO-360  
**Power:** 200 HP @ 2700 RPM  
**Placard/Restr:** Avoid continuous operation between 2000-2350 RPM and above 2600 RPM during aerobatic flight  
**Notes:**

**Blade Model(s):** FC7666A-4  
**Prop Diameter:** 72"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 14.0 +-0.2  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 29.0 +-2.0  
**Cwt Angle:**

### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| Item Type     | Item Number    | Description                   | Quantity | Qty Per | Comments                 |
|---------------|----------------|-------------------------------|----------|---------|--------------------------|
| PROPELLER     | C2K00620       | HC-C2YK-4CF/FC7666A-4/SM8     | 1        | A/C     |                          |
| BLADE         | FC7666A-4      | PCP:BLADE UNIT, B-3202H-6 CWT | 2        | Prop    |                          |
| SPINNER       | 836-60         | SPINNER ASSEMBLY              | 1        | Prop    |                          |
| SPIN MTG KIT  | A-2476-8       | SPINNER - MTG KIT             | 1        | Prop    |                          |
| COUNTERWEIGHT | B-3202H-6      | PCP:COUNTERWEIGHT             | 1        | Blade   | Blade Component          |
| MTG BOLT/STUD | A-2067         | STUD, MOUNTING, 1/2-20        | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-C2YK-4CF-OH | O/H KIT                       | 1        | Prop    | For aftermarket use only |



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**STODDARD HAMILTON**

**Model:** SUPER 2SRG GLASAIR  
**Trade Name:**  
**Aircraft T.C./STC:** Experimental  
**Propeller Model:** HC-C2YR-1BF  
**Propeller T.C.:** P-920

**IDS No.:** 1358      **Rev.:** 1      **IC Date:** 07/07/2015

**Modifier:**  
**Engine Model:** IO-360-B1( ), E1A, F1A  
**Power:** 180 HP @ 2700 RPM  
**Placard/Restr:** Stabilized operation is prohibited above 25" manifold pressure between 2300-2250 RPM and below 15" manifold pressure above 2600 RPM

**Blade Model(s):** F7068-2  
**Prop Diameter:** 68"

**Notes:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.2 +-0.1  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 39.0 +-1.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:** STODDARD

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type     | Item Number    | Description              | Quantity | Qty Per | Comments                 |
|---------------|----------------|--------------------------|----------|---------|--------------------------|
| PROPELLER     | C2R00014       | HC-C2YR-1BF/F7068-2/SM8  | 1        | A/C     |                          |
| BLADE         | F7068-2        | PCP:BLADE UNIT, ALUMINUM | 2        | Prop    |                          |
| SPIN MTG KIT  | A-2476-8       | SPINNER - MTG KIT        | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2067         | STUD, MOUNTING, 1/2-20   | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-C2YR-1BF-OH | O/H KIT                  | 1        | Prop    | For aftermarket use only |

**STODDARD HAMILTON**

**Model:** GLASAIR III  
**Trade Name:**  
**Aircraft T.C./STC:** Experimental  
**Propeller Model:** HC-C2YK-1BF  
**Propeller T.C.:** P-920  
**Blade Model(s):** F8475J-4  
**Prop Diameter:** 78" TO 80"

**IDS No.:** 531      **Rev.:** 1      **IC Date:** 07/07/2015

**Modifier:**  
**Engine Model:** IO-540 SERIES  
**Power:** 300 HP @ 2700 RPM  
**Placard/Restr:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.5 +-0.2  
**Stud Protrusion**

**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 38.0 +-1.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:** GLASAIR SPINNER

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type     | Item Number    | Description                  | Quantity | Qty Per | Comments                 |
|---------------|----------------|------------------------------|----------|---------|--------------------------|
| PROPELLER     | C2K00120       | HC-C2YK-1BF/F8475J-4/SM8     | 1        | A/C     |                          |
| BLADE         | F8475J-4       | PCP:BLADE UNIT, ALUM [1,1,1] | 2        | Prop    |                          |
| SPIN MTG KIT  | A-2476-8       | SPINNER - MTG KIT            | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2067         | STUD, MOUNTING, 1/2-20       | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-C2YK-1BF-OH | O/H KIT                      | 1        | Prop    | For aftermarket use only |

# HARTZELL

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STODDARD HAMILTON

IDS No.: 1229 Rev.: 1 IC Date: 07/07/2015

**Model:** GS-1 GLASTAR  
**Trade Name:**  
**Aircraft T.C./STC:** Experimental  
**Propeller Model:** HC-F2YL-1F  
**Propeller T.C.:** P27EA  
**Blade Model(s):** F7663-3  
**Prop Diameter:** 73"

**Modifier:**  
**Engine Model:** IO-320-D1F  
**Power:** 160 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:** Experimental aircraft

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.2 +-0.1  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 29.0 +-1.0  
**Cwt Angle:**

### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| Item Type     | Item Number   | Description                      | Quantity | Qty Per | Comments                 |
|---------------|---------------|----------------------------------|----------|---------|--------------------------|
| PROPELLER     | F2L00027      | HC-F2YL-1F/F7663-3/SM4           | 1        | A/C     |                          |
| BLADE         | F7663-3       | PCP:BLADE UNIT, ALUMINUM         | 2        | Prop    |                          |
| SPINNER       | 835-23        | SPINNER ASSEMBLY                 | 1        | Prop    |                          |
| SPINNER       | 835-23P       | SPINNER ASSEMBLY                 | 1        | Prop    |                          |
| SPIN MTG KIT  | A-2476-4      | SPINNER - MTG KIT                | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2247-1      | STUD, MOUNTING, 7/16-20, DRILLED | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-F2YL-1F-OH | O/H KIT                          | 1        | Prop    | For aftermarket use only |

STODDARD HAMILTON

IDS No.: 1230 Rev.: 1 IC Date: 07/07/2015

**Model:** GS-1 GLASTAR  
**Trade Name:**  
**Aircraft T.C./STC:** Experimental  
**Propeller Model:** HC-F2YR-1F  
**Propeller T.C.:** P27EA  
**Blade Model(s):** F7666A-2  
**Prop Diameter:** 74"

**Modifier:**  
**Engine Model:** O-360-A1F6  
**Power:** 180 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:** Experimental aircraft

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.0 +-0.2  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 29.0 +-1.0  
**Cwt Angle:**

### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| Item Type     | Item Number   | Description              | Quantity | Qty Per | Comments                 |
|---------------|---------------|--------------------------|----------|---------|--------------------------|
| PROPELLER     | F2R00031      | HC-F2YR-1F/F7666A-2/SM4  | 1        | A/C     |                          |
| BLADE         | F7666A-2      | PCP:BLADE UNIT, ALUMINUM | 2        | Prop    |                          |
| SPINNER       | 835-23        | SPINNER ASSEMBLY         | 1        | Prop    |                          |
| SPINNER       | 835-23P       | SPINNER ASSEMBLY         | 1        | Prop    |                          |
| SPIN MTG KIT  | A-2476-4      | SPINNER - MTG KIT        | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2067        | STUD, MOUNTING, 1/2-20   | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-F2YR-1F-OH | O/H KIT                  | 1        | Prop    | For aftermarket use only |

# HARTZELL

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### STOL A/C

**Model:** UC-1  
**Trade Name:**  
**Aircraft T.C./STC:** A6EA  
**Propeller Model:** HC-C2YK-2RB(F)  
**Propeller T.C.:** P-920

**Blade Model(s):** F7666A-2  
**Prop Diameter:** 74" TO 72"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 14.0 +-0.1  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 979      **Rev.:** -      **DM Date:** 07/17/2007

**Modifier:**  
**Engine Model:** IO-360-B1D  
**Power:** 180 HP @ 2700 RPM  
**Placard/Restr:** Avoid continuous operation between 2000 and 2250 RPM.

#### **Notes:**

**Startlock Angle:** 19.5 +-1.5  
**Feather/High Angle:** 79.3 +-0.5  
**Cwt Angle:**

#### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>         | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|----------------------------|-----------------|----------------|-----------------|
| PROPELLER        | C2K00522           | HC-C2YK-2RBF/F7666A-2      | 0               |                |                 |
| BLADE            | F7666A-2           | PCP:BLADE UNIT, ALUMINUM   | 2               | Prop           |                 |
| SPINNER          | 836-29             | SPINNER ASSEMBLY           | 1               | Prop           |                 |
| SPINNER          | 836-29P            | SPINNER ASSEMBLY           | 1               | Prop           |                 |
| GOVERNOR         | F6-3               | IDS Item                   | 1               | Prop           |                 |
| GOVERNOR         | F6-3A              | GOVERNOR ASSEMBLY, F-6-( ) | 1               | Prop           |                 |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20     | 6               | Prop           |                 |

**Non-HPI Governor:**

### STOL AMPHIBIAN

**Model:** see REPUBLIC  
**Trade Name:**  
**Aircraft T.C./STC:**  
**Propeller Model:**  
**Propeller T.C.:**  
**Blade Model(s):**  
**Prop Diameter:**

#### Prop Setup:

**Ref. Radius:**  
**Reverse Angle:**  
**Low Pitch Angle:**  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 980      **Rev.:** -      **DM Date:** 10/01/1992

**Modifier:**  
**Engine Model:**  
**Power:** HP @ RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:**  
**Feather/High Angle:**  
**Cwt Angle:**

**Non-HPI Governor:**

#### Hartzell Approved Items:

# HARTZELL

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STOLP

**Model:** STARDUSTER  
**Trade Name:**  
**Aircraft T.C./STC:** Experimental  
**Propeller Model:** HC-C2YK-4AF  
**Propeller T.C.:** P-920  
**Blade Model(s):** FC7666A-4  
**Prop Diameter:** 72"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.0 +-0.1  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 983      **Rev.:** -      **DM Date:** 04/05/2000

**Modifier:**  
**Engine Model:** O-360-A1F6  
**Power:** 180 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 29.0 +-2.0  
**Cwt Angle:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>            | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|-------------------------------|-----------------|----------------|-----------------|
| BLADE            | FC7666A-4          | PCP:BLADE UNIT, B-3202H-6 CWT | 2               | Prop           |                 |
| SPINNER          | 836-52             | SPINNER ASSEMBLY              | 1               | Prop           |                 |
| GOVERNOR         | F6-3A              | GOVERNOR ASSEMBLY, F-6(-)     | 1               | A/C            |                 |
| SPIN MTG KIT     | A-2476-8           | SPINNER - MTG KIT             | 1               | Prop           |                 |
| COUNTERWEIGHT    | B-3202H-6          | PCP:COUNTERWEIGHT             | 1               | Blade          | Blade Component |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20        | 6               | Prop           |                 |

STOLP

**Model:** STARDUSTER  
**Trade Name:**  
**Aircraft T.C./STC:** Experimental  
**Propeller Model:** HC-C2YR-4CF  
**Propeller T.C.:** P-920  
**Blade Model(s):** FC8477A-8R  
**Prop Diameter:** 76"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 15.0 +-0.1  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 984      **Rev.:** 1      **IC Date:** 07/07/2015

**Modifier:**  
**Engine Model:** O-540(-)  
**Power:** 260 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 31.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>       | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|--------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | C2R00275           | HC-C2YR-4CF/FC8477A-8R   | 1               | A/C            |                          |
| BLADE            | FC8477A-8R         | PCP:BLADE UNIT, ALUMINUM | 2               | Prop           |                          |
| COUNTERWEIGHT    | B-3202H-6          | PCP:COUNTERWEIGHT        | 1               | Blade          | Blade Component          |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20   | 6               | Prop           |                          |
| OVERHAUL KIT     | HC-C2YR-4CF-OH     | O/H KIT                  | 1               | Prop           | For aftermarket use only |

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STOLP

**Model:** STARDUSTER  
**Trade Name:**  
**Aircraft T.C./STC:** Experimental  
**Propeller Model:** HC-C2YK-1BF  
**Propeller T.C.:** P-920  
**Blade Model(s):** F8467-8  
**Prop Diameter:** 76"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 15.0 +-0.1  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 982      **Rev.:** -      **DM Date:** 03/10/2003

**Modifier:**  
**Engine Model:** IO-540-D4A5  
**Power:** 260 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 31.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>         | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|----------------------------|-----------------|----------------|-----------------|
| BLADE            | F8467-8            | IDS Item                   | 2               | Prop           |                 |
| SPINNER          | 836-52             | SPINNER ASSEMBLY           | 1               | Prop           |                 |
| GOVERNOR         | F4-4A              | GOVERNOR ASSEMBLY, F-4-( ) | 1               | A/C            |                 |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20     | 6               | Prop           |                 |

STOLP

**Model:** STARDUSTER  
**Trade Name:**  
**Aircraft T.C./STC:** Experimental  
**Propeller Model:** HC-C2YK-4AF  
**Propeller T.C.:**  
**Blade Model(s):** FC8467-7R  
**Prop Diameter:** 77"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 15.0 +-0.1  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 981      **Rev.:** -      **DM Date:** 03/10/2003

**Modifier:**  
**Engine Model:** IO-540-D4A5  
**Power:** 260 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 31.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>         | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|----------------------------|-----------------|----------------|-----------------|
| BLADE            | FC8467-7R          | PCP:BLADE UNIT, ALUMINUM   | 2               | Prop           |                 |
| SPINNER          | 836-52             | SPINNER ASSEMBLY           | 1               | Prop           |                 |
| GOVERNOR         | F6-13A             | GOVERNOR ASSEMBLY, F-6-( ) | 1               | A/C            |                 |
| COUNTERWEIGHT    | B-3202H-6          | PCP:COUNTERWEIGHT          | 1               | Blade          | Blade Component |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20     | 6               | Prop           |                 |

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### SUD AVIATION (SOCATA)

**Model:** GY.80-150  
**Trade Name:** GARDAN  
**Aircraft T.C./STC:** A12IN  
**Propeller Model:** HC-82XL-1, HC-A2XL-1  
**Propeller T.C.:** P24EA  
**Blade Model(s):** 7636-4  
7636D-4  
**Prop Diameter:** 72" TO 70"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.0 +/-0.2  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

#### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u> | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>        |
|------------------|--------------------|--------------------|-----------------|----------------|------------------------|
| BLADE            | 7636-4             | BLADE              | 2               | Prop           |                        |
| BLADE            | 7636D-4            | BLADE              | 2               | Prop           |                        |
| SPINNER          | 835-30             | SPINNER ASSEMBLY   | 1               | Prop           |                        |
| SPINNER          | 835-6P             | IDS Item           | 1               | Prop           | Superseded, use 835-30 |

**IDS No.:** 2289      **Rev.:** -      **DM Date:** 01/12/2004

**Modifier:**  
**Engine Model:** O-320-A3C  
**Power:** 150 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 24.2 +/-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:**

### SUD AVIATION (SOCATA)

**Model:** GY.80-150  
**Trade Name:** GARDAN  
**Aircraft T.C./STC:** A12IN  
**Propeller Model:** HC-82VL-1, HC-A2VL-1  
**Propeller T.C.:** P24EA  
**Blade Model(s):** V7636D-4  
V7636N-4  
**Prop Diameter:** 72" TO 70"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.0 +/-0.2  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

#### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u> | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>        |
|------------------|--------------------|--------------------|-----------------|----------------|------------------------|
| BLADE            | V7636D-4           | BLADE              | 2               | Prop           |                        |
| BLADE            | V7636N-4           | BLADE              | 2               | Prop           |                        |
| SPINNER          | 835-30             | SPINNER ASSEMBLY   | 1               | Prop           |                        |
| SPINNER          | 835-6P             | IDS Item           | 1               | Prop           | Superseded, use 835-30 |

**IDS No.:** 2290      **Rev.:** -      **DM Date:** 01/12/2004

**Modifier:**  
**Engine Model:** O-320-A3C  
**Power:** 150 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 24.2 +/-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:**

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### SUD AVIATION (SOCATA)

**Model:** GY.80-150  
**Trade Name:** GARDAN  
**Aircraft T.C./STC:** A12IN  
**Propeller Model:** HC-A2MVL-1  
**Propeller T.C.:** P24EA  
**Blade Model(s):** MV7636N-4  
**Prop Diameter:** 72" TO 70"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.0 +-0.2  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 985      **Rev.:** -      **DM Date:** 01/12/2004

**Modifier:**  
**Engine Model:** O-320-A3C  
**Power:** 150 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 24.2 +-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:**

#### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>       | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>        |
|------------------|--------------------|--------------------------|-----------------|----------------|------------------------|
| BLADE            | MV7636N-4          | PCP:BLADE UNIT, ALUMINUM | 2               | Prop           |                        |
| SPINNER          | 835-30             | SPINNER ASSEMBLY         | 1               | Prop           |                        |
| SPINNER          | 835-6P             | IDS Item                 | 1               | Prop           | Superseded, use 835-30 |

### SUD AVIATION (SOCATA)

**Model:** GY.80-160  
**Trade Name:** GARDAN HORIZON  
**Aircraft T.C./STC:** A12IN  
**Propeller Model:** HC-82XL-1, HC-A2XL-1  
**Propeller T.C.:** P24EA  
**Blade Model(s):** 7636-4  
7636D-4  
**Prop Diameter:** 72" TO 70"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.0 +-0.2  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 2291      **Rev.:** -      **DM Date:** 01/12/2004

**Modifier:**  
**Engine Model:** O-320-B3C  
**Power:** 160 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 24.2 +-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:**

#### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u> | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>        |
|------------------|--------------------|--------------------|-----------------|----------------|------------------------|
| BLADE            | 7636-4             | BLADE              | 2               | Prop           |                        |
| BLADE            | 7636D-4            | BLADE              | 2               | Prop           |                        |
| SPINNER          | 835-30             | SPINNER ASSEMBLY   | 1               | Prop           |                        |
| SPINNER          | 835-6P             | IDS Item           | 1               | Prop           | Superseded, use 835-30 |

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### SUD AVIATION (SOCATA)

**Model:** GY.80-160  
**Trade Name:** GARDAN HORIZON  
**Aircraft T.C./STC:** A12IN  
**Propeller Model:** HC-82VL-1, HC-A2VL-1  
**Propeller T.C.:** P24EA  
**Blade Model(s):** V7636D-4  
 V7636N-4  
**Prop Diameter:** 72" TO 70"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.0 +-0.2  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

#### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u> | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>        |
|------------------|--------------------|--------------------|-----------------|----------------|------------------------|
| BLADE            | V7636D-4           | BLADE              | 2               | Prop           |                        |
| BLADE            | V7636N-4           | BLADE              | 2               | Prop           |                        |
| SPINNER          | 835-30             | SPINNER ASSEMBLY   | 1               | Prop           |                        |
| SPINNER          | 835-6P             | IDS Item           | 1               | Prop           | Superseded, use 835-30 |

**IDS No.:** 2292      **Rev.:** -      **DM Date:** 01/12/2004

**Modifier:**  
**Engine Model:** O-320-B3C  
**Power:** 160 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 24.2 +-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:**

### SUD AVIATION (SOCATA)

**Model:** GY.80-160  
**Trade Name:** GARDAN HORIZON  
**Aircraft T.C./STC:** A12IN  
**Propeller Model:** HC-A2MVL-1  
**Propeller T.C.:** P24EA  
**Blade Model(s):** MV7636N-4  
**Prop Diameter:** 72" TO 70"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.0 +-0.2  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

#### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>       | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>        |
|------------------|--------------------|--------------------------|-----------------|----------------|------------------------|
| BLADE            | MV7636N-4          | PCP:BLADE UNIT, ALUMINUM | 2               | Prop           |                        |
| SPINNER          | 835-30             | SPINNER ASSEMBLY         | 1               | Prop           |                        |
| SPINNER          | 835-6P             | IDS Item                 | 1               | Prop           | Superseded, use 835-30 |

**IDS No.:** 986      **Rev.:** -      **DM Date:** 01/12/2004

**Modifier:**  
**Engine Model:** O-320-B3C  
**Power:** 160 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 24.2 +-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:**



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### SUD AVIATION (SOCATA)

**Model:** GY.80-160  
**Trade Name:** GARDAN HORIZON  
**Aircraft T.C./STC:** Unknown  
**Propeller Model:** HC-C2YL-1BF  
**Propeller T.C.:** P-920  
**Blade Model(s):** F7663A-4  
**Prop Diameter:** 72"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.0 +-0.1  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

#### Hartzell Approved Items:

| Item Type     | Item Number    | Description                      | Quantity | Qty Per | Comments                 |
|---------------|----------------|----------------------------------|----------|---------|--------------------------|
| PROPELLER     | C2L00044       | HC-C2YL-1BF/F7663A-4             | 0        |         |                          |
| BLADE         | F7663A-4       | PCP:BLADE UNIT, ALUMINUM         | 2        | Prop    |                          |
| SPINNER       | 835-20         | IDS Item                         | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2247-1       | STUD, MOUNTING, 7/16-20, DRILLED | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-C2YL-1BF-OH | O/H KIT                          | 1        | Prop    | For aftermarket use only |

**IDS No.:** 987      **Rev.:** 1      **IC Date:** 07/07/2015

**Modifier:**  
**Engine Model:** O-320-B3C  
**Power:** 160 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 27.0 +-2.0  
**Cwt Angle:**

**Non-HPI Governor:**

### SUD AVIATION (SOCATA)

**Model:** GY.80-180  
**Trade Name:** GARDAN  
**Aircraft T.C./STC:** Unknown  
**Propeller Model:** HC-C2YK-1BF  
**Propeller T.C.:** P-920  
  
**Blade Model(s):** F7666A-2  
**Prop Diameter:** 74"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 14.0 +-0.2  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

#### Hartzell Approved Items:

| Item Type     | Item Number    | Description              | Quantity | Qty Per | Comments                 |
|---------------|----------------|--------------------------|----------|---------|--------------------------|
| PROPELLER     | C2K00047       | HC-C2YK-1BF/F7666A-2     | 1        | A/C     |                          |
| BLADE         | F7666A-2       | PCP:BLADE UNIT, ALUMINUM | 2        | Prop    |                          |
| SPINNER       | 835-20         | IDS Item                 | 1        | Prop    |                          |
| GOVERNOR      | F4-4           | IDS Item                 | 1        | A/C     |                          |
| MTG BOLT/STUD | A-2067         | STUD, MOUNTING, 1/2-20   | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-C2YK-1BF-OH | O/H KIT                  | 1        | Prop    | For aftermarket use only |

**IDS No.:** 988      **Rev.:** 1      **IC Date:** 07/07/2015

**Modifier:**  
**Engine Model:** O-360-A1A  
**Power:** 180 HP @ 2700 RPM  
**Placard/Restr:** Avoid continuous operation between 2000 and 2250 RPM.  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 29.0 +-2.0  
**Cwt Angle:**

**Non-HPI Governor:**

# HARTZELL

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**SWEARINGEN** (See also FAIRCHILD)

IDS No.: 990      Rev.: 1      IC      Date: 07/16/2015

**Model:** SX300  
**Trade Name:**  
**Aircraft T.C./STC:** Experimental  
**Propeller Model:** HC-E3YR-1RF  
**Propeller T.C.:** P33EA  
**Blade Model(s):** F8468T-12  
**Prop Diameter:** 74"

**Modifier:**  
**Engine Model:** IO-540-L1A5  
**Power:** 300 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.0 +-0.1  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 40.0 +-1.0  
**Cwt Angle:**

### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>           | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|------------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | E3R00010           | HC-E3YR-1RF/F8468T-12/SM7    | 1               | A/C            |                          |
| BLADE            | F8468T-12          | PCP:BLADE UNIT, ALUM [1,1,1] | 3               | Prop           |                          |
| SPINNER          | C-3535-1           | SPINNER ASSEMBLY             | 1               | Prop           |                          |
| GOVERNOR         | V3                 | GOVERNOR ASSEMBLY, V-3-()    | 1               | A/C            |                          |
| SPIN MTG KIT     | A-2476-7           | SPINNER - MTG KIT            | 1               | Prop           |                          |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20       | 6               | Prop           |                          |
| OVERHAUL KIT     | HC-E3YR-1RF-OH     | O/H KIT                      | 1               | Prop           | For aftermarket use only |

**SWIFT**

IDS No.: 2409      Rev.: -      DM      Date: 12/01/2003

**Model:** GC-1B  
**Trade Name:**  
**Aircraft T.C./STC:** Unknown  
**Propeller Model:** HC-82XL-1D  
**Propeller T.C.:** P878  
**Blade Model(s):** 7636D-4  
**Prop Diameter:** 72.2"

**Modifier:** E.J. FALTENBACHER  
**Engine Model:** IO-320-B1A  
**Power:** 160 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

### Prop Setup:

**Ref. Radius:**  
**Reverse Angle:**  
**Low Pitch Angle:**  
**Stud Protrusion**

**Startlock Angle:**  
**Feather/High Angle:**  
**Cwt Angle:**

### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u> | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|--------------------|-----------------|----------------|-----------------|
| BLADE            | 7636D-4            | BLADE              | 2               | Prop           |                 |

# HARTZELL

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SWIFT

Model: GC-1B  
Trade Name:  
Aircraft T.C./STC: Unknown  
Propeller Model: HC-A2XL-1  
Propeller T.C.: P908  
Blade Model(s): 7636-4  
Prop Diameter:

### Prop Setup:

Ref. Radius: 30  
Reverse Angle: NA  
Low Pitch Angle: 12.0 +-0.1  
Stud Protrusion

### Non-HPI Items:

Non-HPI Spinner:

IDS No.: 2410 Rev.: - DM Date: 12/01/2003

Modifier:  
Engine Model: IO-320-B1A  
Power: 160 HP @ 2700 RPM  
Placard/Restr:  
Notes:

Startlock Angle: NA  
Feather/High Angle: 25.5 +-0.5  
Cwt Angle:

Non-HPI Governor:

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u> | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|--------------------|-----------------|----------------|-----------------|
| BLADE            | 7636-4             | BLADE              | 2               | Prop           |                 |

SWIFT

Model: GC-1B  
Trade Name:  
Aircraft T.C./STC: Unknown  
Propeller Model: HC-A2VL-1  
Propeller T.C.: P24EA  
Blade Model(s): V7636N-4  
Prop Diameter:

### Prop Setup:

Ref. Radius: 30  
Reverse Angle: NA  
Low Pitch Angle: 12.0 +-0.1  
Stud Protrusion

### Non-HPI Items:

Non-HPI Spinner:

IDS No.: 2411 Rev.: - DM Date: 11/19/2003

Modifier:  
Engine Model: IO-320-B1A  
Power: 160 HP @ 2700 RPM  
Placard/Restr:  
Notes:

Startlock Angle: NA  
Feather/High Angle: 25.5 +-0.5  
Cwt Angle:

Non-HPI Governor:

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u> | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|--------------------|-----------------|----------------|-----------------|
| BLADE            | V7636N-4           | BLADE              | 2               | Prop           |                 |

# HARTZELL

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SWIFT MUSEUM FOUNDATION

IDS No.: 2006 Rev.: 1 IC Date: 07/07/2015

**Model:** GC-1B

**Trade Name:**

**Aircraft T.C./STC:** A-766

**Propeller Model:** HC-C2YK-1BF

**Propeller T.C.:** P-920

**Blade Model(s):** F7666A-2

**Prop Diameter:** 74"-72"

### Prop Setup:

**Ref. Radius:** 30

**Reverse Angle:** N/A

**Low Pitch Angle:** 12.8 +-0.2

**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**Modifier:**

**Engine Model:** 0-360-A1A

**Power:** 180 HP @ 2700 RPM

**Placard/Restr:** Avoid continuous operation between 2000 and 2250 RPM

**Notes:** Engine installation per STC SA803S0.

**Startlock Angle:** N/A

**Feather/High Angle:** 35.9 +-1.0

**Cwt Angle:**

**Non-HPI Governor:** WOODWARD

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>       | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>            |
|------------------|--------------------|--------------------------|-----------------|----------------|----------------------------|
| PROPELLER        | C2K00026           | HC-C2YK-1BF/F7666A-2     | 1               | A/C            |                            |
| BLADE            | F7666A-2           | PCP:BLADE UNIT, ALUMINUM | 2               | Prop           |                            |
| SPINNER          | A-2298-2           | SPINNER ASSEMBLY         | 1               | Prop           |                            |
| SPINNER          | D-4798P            | SPINNER ASSEMBLY         | 1               | Prop           |                            |
| SPIN MTG KIT     | A-2476-14          | SPINNER - MTG KIT        | 1               | Prop           | [w/Hartzell Spinners Only] |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20   | 6               | Prop           |                            |
| OVERHAUL KIT     | HC-C2YK-1BF-OH     | O/H KIT                  | 1               | Prop           | For aftermarket use only   |

# HARTZELL

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TAYLORCRAFT

Model: 20  
Trade Name:  
Aircraft T.C./STC: 3A3  
Propeller Model: HC-A2MVF-1  
Propeller T.C.: P24EA  
Blade Model(s): MV8433N  
Prop Diameter: 84.2" TO 82.5"

### Prop Setup:

Ref. Radius: 30  
Reverse Angle: NA  
Low Pitch Angle: 12.0 +-0.2  
Stud Protrusion

### Non-HPI Items:

Non-HPI Spinner:

### Hartzell Approved Items:

| Item Type | Item Number | Description                  | Quantity | Qty Per | Comments |
|-----------|-------------|------------------------------|----------|---------|----------|
| BLADE     | MV8433N     | PCP:BLADE UNIT, ALUM [1,1,1] | 2        | Prop    |          |
| SPINNER   | 835-13      | SPINNER ASSEMBLY             | 1        | Prop    |          |

IDS No.: 995 Rev.: - DM Date: 05/19/1998

Modifier:  
Engine Model: O-470-J  
Power: 225 HP @ 2550 RPM  
Placard/Restr:  
Notes:

Startlock Angle: NA  
Feather/High Angle: 28.0 +-0.5  
Cwt Angle: Positive

Non-HPI Governor:

TAYLORCRAFT

Model: 20  
Trade Name:  
Aircraft T.C./STC: 3A3  
Propeller Model: HC-A2MVF-1  
Propeller T.C.: P24EA  
Blade Model(s): MV8433N  
Prop Diameter: 84.2" TO 82.5"

### Prop Setup:

Ref. Radius: 30  
Reverse Angle: NA  
Low Pitch Angle: 11.8 +-0.2  
Stud Protrusion

### Non-HPI Items:

Non-HPI Spinner:

### Hartzell Approved Items:

| Item Type | Item Number | Description                  | Quantity | Qty Per | Comments |
|-----------|-------------|------------------------------|----------|---------|----------|
| BLADE     | MV8433N     | PCP:BLADE UNIT, ALUM [1,1,1] | 2        | Prop    |          |
| SPINNER   | 835-13      | SPINNER ASSEMBLY             | 1        | Prop    |          |

IDS No.: 994 Rev.: - DM Date: 05/19/1998

Modifier:  
Engine Model: O-470-A  
Power: 225 HP @ 2600 RPM  
Placard/Restr:  
Notes:

Startlock Angle: NA  
Feather/High Angle: 27.5 +-0.5  
Cwt Angle: Positive

Non-HPI Governor:

# HARTZELL

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### TAYLORCRAFT

**Model:** DCO-65  
**Trade Name:**  
**Aircraft T.C./STC:** A746  
**Propeller Model:** HA-12U  
**Propeller T.C.:**  
**Blade Model(s):** 7214-4  
7214-4M  
7414  
**Prop Diameter:** 74" TO 68"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** SET TO STATIC RPM  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 996      **Rev.:** -      **DM Date:** 10/01/1992

**Modifier:**  
**Engine Model:** A-65-8  
**Power:** 65 HP @ 2300 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** NA  
**Cwt Angle:**

**Non-HPI Governor:** NA

#### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u> | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|--------------------|-----------------|----------------|-----------------|
| BLADE            | 7214-4             | IDS Item           | 2               | Prop           |                 |
| BLADE            | 7214-4M            | IDS Item           | 2               | Prop           |                 |
| BLADE            | 7414               | IDS Item           | 2               | Prop           |                 |

### TEAL AIRCRAFT CORP

**Model:** TSC-1A, 1A1, 1A2  
**Trade Name:**  
**Aircraft T.C./STC:** A15EA  
**Propeller Model:** HC-C2YL-1B  
**Propeller T.C.:** P-920  
**Blade Model(s):** F7663A-4  
**Prop Diameter:** 72" TO 70"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.0 +-0.1  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 997      **Rev.:** -      **DM Date:** 10/01/1992

**Modifier:**  
**Engine Model:** O-320-A3B  
**Power:** 150 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 27.5 +-0.5  
**Cwt Angle:**

**Non-HPI Governor:**

#### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>             | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|--------------------------------|-----------------|----------------|-----------------|
| BLADE            | F7663A-4           | PCP:BLADE UNIT, ALUMINUM       | 2               | Prop           |                 |
| GOVERNOR         | F2-6A              | GOVERNOR ASSEMBLY, F-2-( )     | 1               | A/C            | also F2-7A?     |
| MTG BOLT/STUD    | A-2247-1           | STUD, MOUNTING,7/16-20,DRILLED | 6               | Prop           |                 |

# HARTZELL

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Team Rocket

**Model:** F4  
**Trade Name:** F4 Raider  
**Aircraft T.C./STC:** Experimental  
**Propeller Model:** HC-M3YR-1RFX  
**Propeller T.C.:**

**Blade Model(s):** F7392-1X  
**Prop Diameter:** 74-73"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** 13.5 +- 0.2  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 3673      **Rev.:** -      **IC**      **Date:** 04/26/2019

**Modifier:**

**Engine Model:** IO-360-()6

**Power:** 200 HP @ 2700 RPM

**Placard/Restr:** Engines must have counterweighted crankshafts. Avoid continuous operation below 15" manifold pressure between 2050 and 2450 RPM.

**Notes:** Remove TC and PC markings from Hub and Blades, and Remove S/N from Hub.

**Startlock Angle:**

**Feather/High Angle:** 33.0 MIN

**Cwt Angle:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>           | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|------------------------------|-----------------|----------------|-----------------|
| PROPELLER        | M3R00055X          | HC-M3YR-1RFX/F7392-1X/SM17   | 1               | A/C            |                 |
| BLADE            | F7392-1X           | PCP:BLADE UNIT, ALUM [1,1,1] | 3               | Prop           |                 |
| SPINNER          | C-3535-1           | SPINNER ASSEMBLY             | 1               | Prop           |                 |
| SPINNER          | C-3535-1P          | SPINNER ASSEMBLY             | 1               | Prop           |                 |
| SPIN MTG KIT     | A-2476-17          | SPINNER - MTG KIT            | 1               | Prop           |                 |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20       | 6               | Prop           |                 |

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### Team Rocket

**Model:** F4  
**Trade Name:** F4 Raider  
**Aircraft T.C./STC:** Experimental  
**Propeller Model:** HC-M2YR-1BFPX  
**Propeller T.C.:**

**Blade Model(s):** F7497\*3X  
F7497X  
**Prop Diameter:** 74-72"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** 14.0 +- 0.2  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 3617      **Rev.:** -      **IC**      **Date:** 01/15/2019

**Modifier:**  
**Engine Model:** Titan 370  
**Power:** 210 HP @ 2700 RPM  
**Placard/Restr:** With counterweighted crankshaft and 9.6:1 (or less) compression ratio: no placards  
**Notes:** Remove TC and PC markings from Hub and Blades, and Remove S/N from Hub.

**Startlock Angle:**  
**Feather/High Angle:** 33.0 MIN  
**Cwt Angle:**

**Non-HPI Governor:**

#### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>            | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|-------------------------------|-----------------|----------------|-----------------|
| PROPELLER        | M2R20006X          | HC-M2YR-1BFPX/F7497X/SM32     | 1               | A/C            |                 |
| PROPELLER        | M2R20007X          | HC-M2YR-1BFPX/F7497[*3]X/SM32 | 1               | A/C            |                 |
| BLADE            | F7497*3X           | PCP:BLADE UNIT, ALUM [3,5,1]  | 2               | Prop           |                 |
| BLADE            | F7497X             | PCP:BLADE UNIT, ALUM [6,1,11] | 2               | Prop           |                 |
| SPINNER          | C-3533-P           | SPINNER ASSEMBLY              | 1               | Prop           |                 |
| SPIN MTG KIT     | A-2476-32          | SPINNER - MTG KIT             | 1               | Prop           |                 |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20        | 6               | Prop           |                 |

### TEAM ROCKET

**Model:** F1  
**Trade Name:**  
**Aircraft T.C./STC:** Experimental  
**Propeller Model:** HC-M2YR-1BF  
**Propeller T.C.:** P43GL  
**Blade Model(s):** F8475D-2\*1  
**Prop Diameter:** 82" TO 80"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.2 +-0.1  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 2575      **Rev.:** 1      **IC**      **Date:** 07/07/2015

**Modifier:**  
**Engine Model:** IO-540-C4B5  
**Power:** 250 HP @ 2575 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 38.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

#### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>            | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|-------------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | M2R00041           | HC-M2YR-1BF/F8475D-2[*1]/SM32 | 1               | A/C            |                          |
| BLADE            | F8475D-2*1         | PCP:BLADE UNIT, ALUM [6,1,1]  | 2               | Prop           |                          |
| SPIN MTG KIT     | A-2476-32          | SPINNER - MTG KIT             | 1               | Prop           |                          |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20        | 6               | Prop           |                          |
| OVERHAUL KIT     | HC-M2YR-1BF-OH     | O/H KIT                       | 1               | Prop           | For aftermarket use only |



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### TEAM ROCKET

**Model:** F1  
**Trade Name:**  
**Aircraft T.C./STC:** Experimental  
**Propeller Model:** HC-J2YF-1BF  
**Propeller T.C.:** P37EA  
**Blade Model(s):** F8068D\*2  
**Prop Diameter:** 80"-78"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** 16.0 +/- 0.2  
**Stud Protrusion:** 1.450 +/- 0.030

#### Non-HPI Items:

**Non-HPI Spinner:** Team Rocket Composite

**IDS No.:** 3135      **Rev.:** 4      **D**      **Date:** 04/13/2012

**Modifier:**  
**Engine Model:** IO-550-N  
**Power:** 310 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:**  
**Feather/High Angle:** 38.0 +/- 1.0  
**Cwt Angle:**

**Non-HPI Governor:**

#### Hartzell Approved Items:

| Item Type     | Item Number | Description                  | Quantity | Qty Per | Comments                  |
|---------------|-------------|------------------------------|----------|---------|---------------------------|
| PROPELLER     | J2F07000    | HC-J2YF-1BF/F8068D[*2]/SM32  | 1        | A/C     |                           |
| PROPELLER     | J2F07001    | HC-J2YF-1BF/F8068D[*2]/SM53  | 1        | A/C     |                           |
| BLADE         | F8068D*2    | PCP:BLADE UNIT, ALUM [3,5,5] | 2        | Prop    |                           |
| SPINNER       | C-3533      | SPINNER ASSEMBLY             | 1        | Prop    |                           |
| SPINNER       | C-3533-P    | SPINNER ASSEMBLY             | 1        | Prop    |                           |
| SPIN MTG KIT  | A-2476-32   | SPINNER - MTG KIT            | 1        | Prop    |                           |
| SPIN MTG KIT  | A-2476-53   | SPINNER - MTG KIT            | 1        | Prop    | Kit For Composite Spinner |
| MTG BOLT/STUD | A-2429-4    | STUD, MOUNTING, 1/2-20       | 6        | Prop    |                           |

### TEAM ROCKET

**Model:** F1 ROCKET  
**Trade Name:**  
**Aircraft T.C./STC:** Experimental  
**Propeller Model:** HC-M2YR-1BF  
**Propeller T.C.:** P43GL  
**Blade Model(s):** F8475D-4\*3  
**Prop Diameter:** 80" TO 78"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.2 +/-0.1  
**Stud Protrusion:**

#### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 2050      **Rev.:** 1      **IC**      **Date:** 07/07/2015

**Modifier:**  
**Engine Model:** IO-540-C4B5  
**Power:** 250 HP @ 2575 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 38.0 +/-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

#### Hartzell Approved Items:

| Item Type     | Item Number    | Description                   | Quantity | Qty Per | Comments                 |
|---------------|----------------|-------------------------------|----------|---------|--------------------------|
| PROPELLER     | M2R00055       | HC-M2YR-1BF/F8475D-4[*3]/SM32 | 1        | A/C     |                          |
| BLADE         | F8475D-4*3     | PCP:BLADE UNIT, ALUM [6,1,1]  | 2        | Prop    |                          |
| SPINNER       | C-3533         | SPINNER ASSEMBLY              | 1        | Prop    |                          |
| SPINNER       | C-3533-P       | SPINNER ASSEMBLY              | 1        | Prop    |                          |
| SPIN MTG KIT  | A-2476-32      | SPINNER - MTG KIT             | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2067         | STUD, MOUNTING, 1/2-20        | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-M2YR-1BF-OH | O/H KIT                       | 1        | Prop    | For aftermarket use only |

# HARTZELL

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### TEAM ROCKET

**Model:** F1  
**Trade Name:** ROCKET  
**Aircraft T.C./STC:** Experimental  
**Propeller Model:** HC-F3YR-1ARF  
**Propeller T.C.:** P31EA  
**Blade Model(s):** F7693DF  
F7693DF\*1  
F7693DF\*8  
**Prop Diameter:** 78" TO 76"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.0 +-0.1  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 1844      **Rev.:** 2      **IC Date:** 10/21/2020

**Modifier:**  
**Engine Model:** IO-540-D4A5  
**Power:** 260 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 38.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

#### Hartzell Approved Items:

| Item Type     | Item Number     | Description                   | Quantity | Qty Per | Comments                       |
|---------------|-----------------|-------------------------------|----------|---------|--------------------------------|
| PROPELLER     | F3R00035        | HC-F3YR-1ARF/F7693DF/SM7      | 1        | A/C     |                                |
| PROPELLER     | F3R00036        | HC-F3YR-1ARF/F7693DF[*1]/SM7  | 1        | A/C     |                                |
| PROPELLER     | F3R00036KD      | HC-F3YR-1ARF/F7693DF[*1]/SM7  | 1        | A/C     |                                |
| PROPELLER     | F3R00042        | HC-F3YR-1ARF/F7693DF*8/SM7    | 1        | A/C     |                                |
| BLADE         | F7693DF         | PCP:BLADE UNIT, ALUMINUM      | 3        | Prop    |                                |
| BLADE         | F7693DF*1       | PCP:BLADE UNIT, ALUM [6,1,1]  | 3        | Prop    |                                |
| BLADE         | F7693DF*8       | PCP:BLADE UNIT, ALUM [3,5,11] | 3        | Prop    |                                |
| SPINNER       | C-3535-1        | SPINNER ASSEMBLY              | 1        | Prop    |                                |
| SPINNER       | C-3535-1P       | SPINNER ASSEMBLY              | 1        | Prop    |                                |
| GOVERNOR      | V3-3            | GOVERNOR ASSEMBLY, V-3-( )    | 1        | A/C     | Wide Deck                      |
| GOVERNOR      | V3-7            | GOVERNOR ASSEMBLY, V-3-( )    | 1        | A/C     | Narr deck non "A" eng S/N sufx |
| SPIN MTG KIT  | A-2476-7        | SPINNER - MTG KIT             | 1        | Prop    |                                |
| MTG BOLT/STUD | A-2067          | STUD, MOUNTING, 1/2-20        | 6        | Prop    |                                |
| OVERHAUL KIT  | HC-F3YR-1ARF-OH | O/H KIT                       | 1        | Prop    | For aftermarket use only       |

### TED SMITH AEROSTAR

**Model:** see AEROSTAR AIRCRAFT CORP.  
**Trade Name:**  
**Aircraft T.C./STC:**  
**Propeller Model:**  
**Propeller T.C.:**  
**Blade Model(s):**  
**Prop Diameter:**

#### Prop Setup:

**Ref. Radius:**  
**Reverse Angle:**  
**Low Pitch Angle:**  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 1385      **Rev.:** -      **DM Date:** 10/01/1992

**Modifier:**  
**Engine Model:**  
**Power:** HP @ RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:**  
**Feather/High Angle:**  
**Cwt Angle:**

**Non-HPI Governor:**

#### Hartzell Approved Items:

# HARTZELL

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### TEXAS BULLET

**Model:** 205  
**Trade Name:** TEXAS BULLET  
**Aircraft T.C./STC:** 4A2  
**Propeller Model:** HC-12X20-7  
**Propeller T.C.:**  
**Blade Model(s):** 8428-6  
**Prop Diameter:** 78" NO CUT OFF

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.8 +-0.2  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:** AIRCRAFT MFG CO

#### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u> | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|--------------------|-----------------|----------------|-----------------|
| BLADE            | 8428-6             | IDS Item           | 2               | Prop           |                 |

**IDS No.:** 1001      **Rev.:** -      **DM Date:** 10/01/1992

**Modifier:**  
**Engine Model:** E-185-1  
**Power:** 205 HP @ 2600 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 24.6 +-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:**

### TEXAS BULLET

**Model:** 205  
**Trade Name:** TEXAS BULLET  
**Aircraft T.C./STC:** 4A2  
**Propeller Model:** HC-12X20-7, HC-D2X20-7  
**Propeller T.C.:** P48GL  
**Blade Model(s):** 8433-6  
**Prop Diameter:** 78" NO CUT OFF

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 16.0 +-0.2  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:** AIRCRAFT MFG CO

#### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u> | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|--------------------|-----------------|----------------|-----------------|
| BLADE            | 8433-6             | BLADE              | 2               | Prop           |                 |

**IDS No.:** 2293      **Rev.:** -      **DM Date:** 11/20/2003

**Modifier:**  
**Engine Model:** E-185-1-7  
**Power:** 205 HP @ 2600 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 31.0 +-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:**

# HARTZELL

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### TEXAS BULLET

**Model:** 205  
**Trade Name:** TEXAS BULLET  
**Aircraft T.C./STC:** 4A2  
**Propeller Model:** HC-12V20-7, HC-D2V20-7  
**Propeller T.C.:** P48GL  
**Blade Model(s):** V8433-6  
V8433N-6  
**Prop Diameter:** 78" NO CUT OFF

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 16.0 +-0.2  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:** AIRCRAFT MFG CO

#### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u> | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|--------------------|-----------------|----------------|-----------------|
| BLADE            | V8433-6            | BLADE              | 2               | Prop           |                 |
| BLADE            | V8433N-6           | BLADE              | 2               | Prop           |                 |

**IDS No.:** 2294      **Rev.:** -      **DM Date:** 11/20/2003

**Modifier:**  
**Engine Model:** E-185-1-7  
**Power:** 205 HP @ 2600 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 31.0 +-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:**

### TEXAS BULLET

**Model:** 205  
**Trade Name:** TEXAS BULLET  
**Aircraft T.C./STC:** 4A2  
**Propeller Model:** HC-D2MV20-7  
**Propeller T.C.:** P48GL  
**Blade Model(s):** MV8433N-6  
**Prop Diameter:** 78" NO CUT OFF

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 16.0 +-0.2  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:** AIRCRAFT MFG CO

#### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>       | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|--------------------------|-----------------|----------------|-----------------|
| BLADE            | MV8433N-6          | PCP:BLADE UNIT, ALUMINUM | 2               | Prop           |                 |

**IDS No.:** 1002      **Rev.:** -      **DM Date:** 05/19/1998

**Modifier:**  
**Engine Model:** E-185-1-7  
**Power:** 205 HP @ 2600 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 31.0 +-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:**

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**THORP**

**Model:** T-18  
**Trade Name:**  
**Aircraft T.C./STC:** Experimental  
**Propeller Model:** HC-F2YL-1F  
**Propeller T.C.:** P27EA  
**Blade Model(s):** F7663A-4  
**Prop Diameter:** 72" NO CUT OFF

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.0 +-0.1  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>               | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|----------------------------------|-----------------|----------------|-----------------|
| BLADE            | F7663A-4           | PCP:BLADE UNIT, ALUMINUM         | 2               | Prop           |                 |
| SPIN MTG KIT     | A-2476-4           | SPINNER - MTG KIT                | 1               | Prop           |                 |
| MTG BOLT/STUD    | A-2247-1           | STUD, MOUNTING, 7/16-20, DRILLED | 6               | Prop           |                 |

**IDS No.:** 1003      **Rev.:** -      **DM Date:** 08/29/2003

**Modifier:**  
**Engine Model:** O-320, IO-320  
**Power:** 160 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:** Customer supplied spinner

**Startlock Angle:** NA  
**Feather/High Angle:** 26.5 +-1.5  
**Cwt Angle:**

**Non-HPI Governor:** WOODWARD

**THORP**

**Model:** T-18  
**Trade Name:**  
**Aircraft T.C./STC:** Experimental  
**Propeller Model:** HC-F2YR-1F  
**Propeller T.C.:** P27EA  
  
**Blade Model(s):** F7666A-4  
**Prop Diameter:** 72" NO CUT OFF

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.0 +-0.1  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>         | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|----------------------------|-----------------|----------------|-----------------|
| BLADE            | F7666A-4           | PCP:BLADE UNIT, ALUMINUM   | 2               | Prop           |                 |
| GOVERNOR         | F2-7A              | GOVERNOR ASSEMBLY, F-2-( ) | 1               | A/C            |                 |
| SPIN MTG KIT     | A-2476-4           | SPINNER - MTG KIT          | 1               | Prop           |                 |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20     | 6               | Prop           |                 |

**IDS No.:** 1004      **Rev.:** -      **DM Date:** 08/26/2006

**Modifier:**  
**Engine Model:** O-360-A1A  
**Power:** 180 HP @ 2700 RPM  
**Placard/Restr:** Avoid continuous operation between 2000 and 2250 RPM  
**Notes:** Customer supplied spinner

**Startlock Angle:** NA  
**Feather/High Angle:** 29.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

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THRUSH

IDS No.: 3214 Rev.: 3 IC Date: 07/15/2015

**Model:** S2R  
**Trade Name:** Turbo Thrush  
**Aircraft T.C./STC:** SA00172SE  
**Propeller Model:** HC-B3TN-5M  
**Propeller T.C.:** P15EA  
**Blade Model(s):** T10282N+4  
**Prop Diameter:** 106.5" TO 102.0"

**Modifier:** Valley Air Service  
**Engine Model:** TPE331-6-252M, 252B, 252T  
**Power:** 700 HP @ 2000 RPM  
**Placard/Restr:**  
**Notes:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** -6.0 +/- 0.5  
**Low Pitch Angle:**  
**Stud Protrusion**

**Startlock Angle:** 2.0 +/- 0.1  
**Feather/High Angle:** 89.0 +/- 0.5  
**Cwt Angle:** Positive

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u>               | <u>Item Number</u> | <u>Description</u>                | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|--------------------------------|--------------------|-----------------------------------|-----------------|----------------|--------------------------|
| PROPELLER                      | B3N10914S          | HC-B3TN-5M/T10282N+4/C-3043-2P    | 1               | A/C            |                          |
| BLADE                          | T10282N+4          | PCP:BLADE UNIT, ALUM [1,1,1]      | 3               | Prop           |                          |
| SPINNER                        | C-3043-2P          | SPINNER ASSEMBLY                  | 1               | Prop           |                          |
| COUNTERWEIGHT SLUG A-3039      |                    | SLUG, COUNTERWEIGHT               | 1               | Blade          |                          |
| COUNTERWEIGHT SLUG A-890-6     |                    | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          | Primary                  |
| COUNTERWEIGHT SLUG A-890-8     |                    | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          | Alternate                |
| COUNTERWEIGHT SLUG A-890-9     |                    | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          | Alternate                |
| COUNTERWEIGHT SLUG B-3384-21H  |                    | BOLT, 1/4-28, HEX HEAD            | 2               | Blade          |                          |
| COUNTERWEIGHT SLUG B-3851-0432 |                    | WASHER                            | 2               | Blade          | Optional                 |
| COUNTERWEIGHT SLUG B-3851-0463 |                    | WASHER                            | 2               | Blade          | Optional                 |
| MTG BOLT/STUD                  | B-3339             | BOLT, MOUNTING, 9/16-18, 12 POINT | 8               | Prop           |                          |
| OVERHAUL KIT                   | HC-B3TN-5M-OH      | O/H KIT                           | 1               | Prop           | For aftermarket use only |

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### THRUSH AIRCRAFT

IDS No.: 3536 Rev.: 1 IC Date: 06/07/2017

**Model:** S2R, S2R-R1340, STR-R3S, S2R-R1820, S2R-G1, S2R-G5, S2R-G6, S2R-G10, S2R-T11, S2R-T15, S2R-T34, S2R-T45, S2R-T65

**Modifier:** Cascade Aircraft Conversions, LLC.

**Trade Name:**

**Aircraft T.C./STC:** Experimental

**Propeller Model:** HC-B4TN-3C

**Propeller T.C.:** P40EA

**Engine Model:** PT6A (See note.)

**Power:** 850 HP @ 2000 RPM

**Placard/Restr:** Stabilized ground operation is prohibited between 400 and 1100rpm. The propeller may be operated when feathered at or below 400 rpm.

**Blade Model(s):** T10702NS

**Prop Diameter:** 108"-107"

**Notes:** These engines are approved with limitations per the airplane TCDS: -41, -42, -42A

**Prop Setup:**

**Ref. Radius:** 42

**Reverse Angle:** -15.0 +/- 0.5

**Low Pitch Angle:** 11.8 +/- 0.1

**Stud Protrusion**

**Startlock Angle:**

**Feather/High Angle:** 80.7 +/- 0.5

**Cwt Angle:** Positive

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type                      | Item Number | Description                       | Quantity | Qty Per | Comments |
|--------------------------------|-------------|-----------------------------------|----------|---------|----------|
| PROPELLER                      | B4N10365S   | HC-B4TN-3C/T10702NS/D-3434-18P    | 1        | A/C     |          |
| PROPELLER                      | B4N10365SKD | HC-B4TN-3C/T10702NS/D-3434-18P    | 1        | A/C     |          |
| BLADE                          | T10702NS    | PCP:BLADE UNIT, ALUMINUM          | 4        | Prop    |          |
| SPINNER                        | D-3434-18   | SPINNER ASSEMBLY                  | 1        | Prop    |          |
| SPINNER                        | D-3434-18P  | SPINNER ASSEMBLY                  | 1        | Prop    |          |
| SPIN MTG KIT                   | B-3384-4H   | BOLT, 1/4-28, HEX HEAD            | 12       | Prop    |          |
| SPIN MTG KIT                   | B-3808-4    | NUT,HEX,SELF-LOCKING              | 12       | Prop    |          |
| SPIN MTG KIT                   | B-3851-0463 | WASHER                            | 12       | Prop    |          |
| COUNTERWEIGHT SLUG A-3039      |             | SLUG, COUNTERWEIGHT               | 1        | Blade   |          |
| COUNTERWEIGHT SLUG A-890-13    |             | PCP:SLUG, COUNTERWEIGHT           | 1        | Blade   |          |
| COUNTERWEIGHT SLUG A-890-14    |             | PCP:SLUG, COUNTERWEIGHT           | 1        | Blade   |          |
| COUNTERWEIGHT SLUG B-3384-15H  |             | BOLT, 1/4-28, HEX HEAD            | 2        | Blade   |          |
| COUNTERWEIGHT SLUG B-3384-18H  |             | BOLT, 1/4-28, HEX HEAD            | 2        | Blade   |          |
| COUNTERWEIGHT SLUG B-3851-0432 |             | WASHER                            | 2        | Blade   |          |
| COUNTERWEIGHT SLUG B-3851-0463 |             | WASHER                            | 2        | Blade   |          |
| MTG BOLT/STUD                  | B-3339      | BOLT, MOUNTING, 9/16-18, 12 POINT | 8        | Prop    |          |
| MISC ACCES                     | A-3044      | BLOCK, BETA FEEDBACK- ASSEMBLY    | 1        | Prop    |          |

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### THRUSH AIRCRAFT

**Model:** S2R-H80  
**Trade Name:**  
**Aircraft T.C./STC:** A4SW  
**Propeller Model:** HC-B4TW-3  
**Propeller T.C.:** P40EA

**IDS No.:** 3417      **Rev.:** 2      **IC Date:** 06/09/2016  
**Modifier:**  
**Engine Model:** H80-100  
**Power:** 800 HP @ 2080 RPM  
**Placard/Restr:** Stabilized ground operation is prohibited between 400 and 1100 RPM. The propeller may be operated when feathered at or below 400 RPM.

**Blade Model(s):** T10702N  
**Prop Diameter:** 108"-107"

**Notes:**

**Prop Setup:**

**Ref. Radius:** 42  
**Reverse Angle:** -15 +/- 0.5  
**Low Pitch Angle:** 8.2 +/- 0.2  
**Stud Protrusion:** 1.740 +/- 0.010

**Startlock Angle:**  
**Feather/High Angle:** 80.7 +/- .5  
**Cwt Angle:** Positive

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type          | Item Number | Description                    | Quantity | Qty Per | Comments |
|--------------------|-------------|--------------------------------|----------|---------|----------|
| PROPELLER          | B4W10500S   | HC-B4TW-3/T10702N/C-3425-P     | 1        | A/C     |          |
| PROPELLER          | B4W10500SKD | HC-B4TW-3/T10702N/C-3425-P     | 1        | A/C     |          |
| BLADE              | T10702N     | PCP:BLADE UNIT, ALUMINUM       | 4        | Prop    |          |
| SPINNER            | C-3425      | SPINNER ASSEMBLY               | 1        | Prop    |          |
| SPINNER            | C-3425-P    | SPINNER ASSEMBLY               | 1        | Prop    |          |
| SPIN MTG KIT       | B-3384-4H   | BOLT, 1/4-28, HEX HEAD         | 12       | Prop    |          |
| SPIN MTG KIT       | B-3808-4    | NUT,HEX,SELF-LOCKING           | 12       | Prop    |          |
| SPIN MTG KIT       | B-3851-0463 | WASHER                         | 12       | Prop    |          |
| COUNTERWEIGHT SLUG | A-3039      | SLUG, COUNTERWEIGHT            | 1        | Blade   |          |
| COUNTERWEIGHT SLUG | A-890-13    | PCP:SLUG, COUNTERWEIGHT        | 1        | Blade   |          |
| COUNTERWEIGHT SLUG | A-890-14    | PCP:SLUG, COUNTERWEIGHT        | 1        | Blade   |          |
| COUNTERWEIGHT SLUG | B-3384-15H  | BOLT, 1/4-28, HEX HEAD         | 2        | Blade   |          |
| COUNTERWEIGHT SLUG | B-3384-18H  | BOLT, 1/4-28, HEX HEAD         | 2        | Blade   |          |
| COUNTERWEIGHT SLUG | B-3851-0432 | WASHER                         | 2        | Blade   |          |
| COUNTERWEIGHT SLUG | B-3851-0463 | WASHER                         | 2        | Blade   |          |
| MTG BOLT/STUD      | A-3254      | STUD, MOUNTING, 9/16-18        | 8        | Prop    |          |
| MTG BOLT/STUD      | B-7458      | NUT,9/16-18,HEX,SELF-LOCKING   | 8        | Prop    |          |
| MISC ACCES         | A-3044      | BLOCK, BETA FEEDBACK- ASSEMBLY | 1        | Prop    |          |



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### THRUSH AIRCRAFT

**Model:** S2R-T15, S2R-T34, S2RHG-T34

**Trade Name:**

**Aircraft T.C./STC:** SA03439CH

**Propeller Model:** HC-B4TN-3C

**Propeller T.C.:** P40EA

**Blade Model(s):** T10702NS

**Prop Diameter:** 108"-107"

#### Prop Setup:

**Ref. Radius:** 42

**Reverse Angle:** -15.0 +/- 0.5

**Low Pitch Angle:** 7.9 +/- 0.1

**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 3290

**Rev.:** 6

**IC Date:** 03/16/2018

**Modifier:** AERO INNOVATIONS

**Engine Model:** PT6A (See note.)

**Power:** 750 HP @ 2200 RPM

**Placard/Restr:** Stabilized ground operation is prohibited between 400 and 1100rpm. The propeller may be operated when feathered at or below 400 rpm.

**Notes:** These engines are approved with limitations per the airplane TCDS: -15AG, -27, -34, -34AG, -36, -41, -41AG, -42

**Startlock Angle:**

**Feather/High Angle:** 80.7 +/-0.5

**Cwt Angle:** Positive

**Non-HPI Governor:**

#### Hartzell Approved Items:

| <u>Item Type</u>               | <u>Item Number</u> | <u>Description</u>                | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|--------------------------------|--------------------|-----------------------------------|-----------------|----------------|-----------------|
| PROPELLER                      | B4N10350S          | HC-B4TN-3C/T10702NS/D-3434-18P    | 1               | A/C            |                 |
| PROPELLER                      | B4N10350SKD        | HC-B4TN-3C/T10702NS/D-3434-18P    | 1               | A/C            |                 |
| BLADE                          | T10702NS           | PCP:BLADE UNIT, ALUMINUM          | 4               | Prop           |                 |
| SPINNER                        | D-3434-18          | SPINNER ASSEMBLY                  | 1               | Prop           |                 |
| SPINNER                        | D-3434-18P         | SPINNER ASSEMBLY                  | 1               | Prop           |                 |
| SPIN MTG KIT                   | B-3384-4H          | BOLT, 1/4-28, HEX HEAD            | 12              | Prop           |                 |
| SPIN MTG KIT                   | B-3808-4           | NUT,HEX,SELF-LOCKING              | 12              | Prop           |                 |
| SPIN MTG KIT                   | B-3851-0463        | WASHER                            | 12              | Prop           |                 |
| COUNTERWEIGHT SLUG A-3039      |                    | SLUG, COUNTERWEIGHT               | 1               | Blade          |                 |
| COUNTERWEIGHT SLUG A-890-13    |                    | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          |                 |
| COUNTERWEIGHT SLUG A-890-14    |                    | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          |                 |
| COUNTERWEIGHT SLUG B-3384-15H  |                    | BOLT, 1/4-28, HEX HEAD            | 2               | Blade          |                 |
| COUNTERWEIGHT SLUG B-3384-18H  |                    | BOLT, 1/4-28, HEX HEAD            | 2               | Blade          |                 |
| COUNTERWEIGHT SLUG B-3851-0432 |                    | WASHER                            | 2               | Blade          |                 |
| COUNTERWEIGHT SLUG B-3851-0463 |                    | WASHER                            | 2               | Blade          |                 |
| MTG BOLT/STUD                  | B-3339             | BOLT, MOUNTING, 9/16-18, 12 POINT | 8               | Prop           |                 |
| MISC ACCES                     | A-3044             | BLOCK, BETA FEEDBACK- ASSEMBLY    | 1               | Prop           |                 |

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### THRUSH AIRCRAFT

**Model:** S-2R-T660  
**Trade Name:** TURBO THRUSH  
**Aircraft T.C./STC:** A4SW  
**Propeller Model:** HC-B5MP-3(F)  
**Propeller T.C.:** P44GL

**Blade Model(s):** M11276NS  
**Prop Diameter:** 115.2" TO 114.7"

**IDS No.:** 2023      **Rev.:** 4      **IC Date:** 07/02/2018

**Modifier:**  
**Engine Model:** PT6A-65AG  
**Power:** 1295 HP @ 1700 RPM  
**Placard/Restr:** Stabilized ground operation is prohibited between 400 and 900 RPM and between 1050 and 1200 RPM. Stabilized ground operation is prohibited above 1600 RPM except when the aircraft is headed into the wind. For downwind takeoffs advance above 1600 RPM only after brake release.

**Notes:** At the low pitch setting, check blade to blade angles at the 36, 42, 48 and 54 inch radial locations. No blade may be consistently high or low at all four stations and all blades must be within 0.2 deg of one another.

#### Prop Setup:

**Ref. Radius:** 42  
**Reverse Angle:** -10.0 +-0.5  
**Low Pitch Angle:** 13.9 +-0.1  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 83.1 +-0.5  
**Cwt Angle:** 2.0 +-1.0

#### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:**

#### Hartzell Approved Items:

| <u>Item Type</u>   | <u>Item Number</u> | <u>Description</u>                | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|--------------------|--------------------|-----------------------------------|-----------------|----------------|--------------------------|
| PROPELLER          | B5P10320           | HC-B5MP-3F/M11276NS               | 1               | A/C            |                          |
| PROPELLER          | B5P10320S          | HC-B5MP-3F/M11276NS/E-7256        | 1               | A/C            |                          |
| PROPELLER          | B5P10320SKD        | HC-B5MP-3F/M11276NS/E-7256        | 1               | A/C            |                          |
| PROPELLER          | B5P10330S          | HC-B5MP-3F/M11276NS/E-7256-P      | 1               | A/C            |                          |
| PROPELLER          | B5P10330SKD        | HC-B5MP-3F/M11276NS/E-7256-P      | 1               | A/C            |                          |
| BLADE              | M11276NS           | PCP:BLADE UNIT, ALUMINUM          | 5               | Prop           |                          |
| SPINNER            | E-7256             | SPINNER ASSEMBLY                  | 1               | Prop           |                          |
| SPINNER            | E-7256-P           | SPINNER ASSEMBLY                  | 1               | Prop           |                          |
| SPIN MTG KIT       | B-3384-6H          | BOLT, 1/4-28, HEX HEAD            | 10              | Prop           |                          |
| SPIN MTG KIT       | B-3808-4           | NUT, HEX, SELF-LOCKING            | 10              | Prop           |                          |
| SPIN MTG KIT       | B-3851-0463        | WASHER                            | 10              | Prop           |                          |
| COUNTERWEIGHT SLUG | B-3386-14H         | BOLT, 3/8-24, HEX HEAD            | 2               | Blade          |                          |
| COUNTERWEIGHT SLUG | B-3663-4           | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          |                          |
| COUNTERWEIGHT SLUG | B-3834-0632        | WASHER                            | 2               | Blade          |                          |
| MTG BOLT/STUD      | B-3339             | BOLT, MOUNTING, 9/16-18, 12 POINT | 8               | Prop           |                          |
| MISC ACCES         | A-3044             | BLOCK, BETA FEEDBACK- ASSEMBLY    | 2               | Prop           |                          |
| OVERHAUL KIT       | HC-B5MP-3F-OH      | O/H KIT                           | 1               | Prop           | For aftermarket use only |

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### THRUSH AIRCRAFT

**Model:** S-2R-T660  
**Trade Name:** TURBO THRUSH  
**Aircraft T.C./STC:** A4SW  
**Propeller Model:** HC-B5MA-3D  
**Propeller T.C.:** P44GL

**Blade Model(s):** M11276NS  
**Prop Diameter:** 115.2" TO 114.7"

#### Prop Setup:

**Ref. Radius:** 42  
**Reverse Angle:** -10.0 +-0.5  
**Low Pitch Angle:** 13.9 +-0.1  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 2024      **Rev.:** 3      **IC Date:** 07/06/2015

**Modifier:**  
**Engine Model:** PT6A-67AG  
**Power:** 1300 HP @ 1700 RPM

**Placard/Restr:** At the low pitch setting, check blade to blade angles at the 36, 42, 48 and 54 inch radial locations. No blade may be consistently high or low at all four stations and all blades must be within 0.2 deg. of one another.

**Notes:** CAN ONLY USE M11276NS BLADES

**Startlock Angle:** NA  
**Feather/High Angle:** 83.1 +-0.5  
**Cwt Angle:** 2.0 +-1.0

**Non-HPI Governor:**

#### Hartzell Approved Items:

| <u>Item Type</u>   | <u>Item Number</u> | <u>Description</u>             | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|--------------------|--------------------|--------------------------------|-----------------|----------------|--------------------------|
| PROPELLER          | B5A10035S          | HC-B5MA-3D/M11276NS/D-5497-P   | 1               | A/C            |                          |
| BLADE              | M11276NS           | PCP:BLADE UNIT, ALUMINUM       | 5               | Prop           |                          |
| SPINNER            | D-5497-P           | SPINNER ASSEMBLY               | 1               | Prop           |                          |
| SPIN MTG KIT       | B-3384-5H          | BOLT, 1/4-28, HEX HEAD         | 10              | Prop           |                          |
| SPIN MTG KIT       | B-3808-4           | NUT,HEX,SELF-LOCKING           | 10              | Prop           |                          |
| SPIN MTG KIT       | B-3851-0463        | WASHER                         | 10              | Prop           |                          |
| COUNTERWEIGHT SLUG | B-3386-14H         | BOLT,3/8-24,HEX HEAD           | 2               | Blade          |                          |
| COUNTERWEIGHT SLUG | B-3663-4           | PCP:SLUG, COUNTERWEIGHT        | 1               | Blade          |                          |
| COUNTERWEIGHT SLUG | B-3834-0632        | WASHER                         | 2               | Blade          |                          |
| MTG BOLT/STUD      | B-3347             | BOLT,MOUNTING,9/16-18,12 POINT | 12              | Prop           |                          |
| OVERHAUL KIT       | HC-B5MA-3D-OH      | O/H KIT                        | 1               | Prop           | For aftermarket use only |

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### THRUSH AIRCRAFT

**Model:** S2R-H80, S2RHG-H80  
**Trade Name:**  
**Aircraft T.C./STC:** A4SW  
**Propeller Model:** HC-B4TW-3  
**Propeller T.C.:** P40EA

**IDS No.:** 3104      **Rev.:** 7      **IC Date:** 10/27/2020

**Modifier:**  
**Engine Model:** H80  
**Power:** 800 HP @ 2080 RPM  
**Placard/Restr:** Stabilized ground operation is prohibited between 400 and 1100 RPM. The propeller may be operated when feathered at or below 400 RPM.

**Blade Model(s):** T10282N  
**Prop Diameter:** 103" to 102"

**Notes:**

**Prop Setup:**

**Ref. Radius:** 42"  
**Reverse Angle:** -15.0+/-0.5  
**Low Pitch Angle:** 11.5+/-0.2  
**Stud Protrusion:** 1.740 +/- 0.010

**Startlock Angle:** N/A  
**Feather/High Angle:** 82.0+/-0.5  
**Cwt Angle:** Positive

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type                      | Item Number    | Description                    | Quantity | Qty Per | Comments                 |
|--------------------------------|----------------|--------------------------------|----------|---------|--------------------------|
| PROPELLER                      | B4W10300S      | HC-B4TW-3/T10282N/C-3425-P     | 1        | A/C     | Prop, less packaging     |
| PROPELLER                      | B4W10300SAFM   | HC-B4TW-3/T10282N/C-3425-P     | 1        | A/C     | Prop, includes packaging |
| PROPELLER                      | B4W10300SAFMKD | HC-B4TW-3/T10282N/C-3425-P     | 1        | A/C     |                          |
| PROPELLER                      | B4W10302S      | HC-B4TW-3/T10282N/C-3425-5P    | 1        | A/C     | Prop, less packaging     |
| PROPELLER                      | B4W10302SAFM   | HC-B4TW-3/T10282N/C-3425-5P    | 1        | A/C     | Prop, includes packaging |
| BLADE                          | T10282N        | PCP:BLADE UNIT, ALUMINUM       | 4        | Prop    |                          |
| SPINNER                        | C-3425         | SPINNER ASSEMBLY               | 1        | Prop    |                          |
| SPINNER                        | C-3425-5P      | SPINNER ASSEMBLY               | 1        | Prop    |                          |
| SPINNER                        | C-3425-P       | SPINNER ASSEMBLY               | 1        | Prop    |                          |
| SPIN MTG KIT                   | B-3384-4H      | BOLT, 1/4-28, HEX HEAD         | 12       | Prop    |                          |
| SPIN MTG KIT                   | B-3808-4       | NUT,HEX,SELF-LOCKING           | 12       | Prop    |                          |
| SPIN MTG KIT                   | B-3851-0463    | WASHER                         | 12       | Prop    |                          |
| COUNTERWEIGHT SLUG A-3039      |                | SLUG, COUNTERWEIGHT            | 1        | Blade   |                          |
| COUNTERWEIGHT SLUG A-890-13    |                | PCP:SLUG, COUNTERWEIGHT        | 1        | Blade   |                          |
| COUNTERWEIGHT SLUG A-890-14    |                | PCP:SLUG, COUNTERWEIGHT        | 1        | Blade   |                          |
| COUNTERWEIGHT SLUG B-3384-15H  |                | BOLT, 1/4-28, HEX HEAD         | 2        | Blade   |                          |
| COUNTERWEIGHT SLUG B-3384-18H  |                | BOLT, 1/4-28, HEX HEAD         | 2        | Blade   |                          |
| COUNTERWEIGHT SLUG B-3851-0432 |                | WASHER                         | 2        | Blade   | Optional Washer          |
| COUNTERWEIGHT SLUG B-3851-0463 |                | WASHER                         | 2        | Blade   | Optional Washer          |
| MTG BOLT/STUD                  | A-3254         | STUD, MOUNTING, 9/16-18        | 8        | Prop    |                          |
| MTG BOLT/STUD                  | B-7458         | NUT,9/16-18,HEX,SELF-LOCKING   | 8        | Prop    |                          |
| MISC ACCES                     | A-3044         | BLOCK, BETA FEEDBACK- ASSEMBLY | 1        | Prop    |                          |

# HARTZELL

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### TIGER

**Model:** AA-5A, -5B  
**Trade Name:** CHEETA/TIGER  
**Aircraft T.C./STC:** SA5452NM  
**Propeller Model:** HC-C2YK-1BF  
**Propeller T.C.:** P-920  
**Blade Model(s):** F7666A-2  
**Prop Diameter:** 74"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 14.0 +-0.2  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:** NA

#### Hartzell Approved Items:

| Item Type     | Item Number    | Description                | Quantity | Qty Per | Comments                 |
|---------------|----------------|----------------------------|----------|---------|--------------------------|
| PROPELLER     | C2K00047       | HC-C2YK-1BF/F7666A-2       | 1        | A/C     |                          |
| BLADE         | F7666A-2       | PCP:BLADE UNIT, ALUMINUM   | 3        | Prop    |                          |
| GOVERNOR      | F2-7A          | GOVERNOR ASSEMBLY, F-2-( ) | 1        | A/C     |                          |
| MTG BOLT/STUD | A-2067         | STUD, MOUNTING, 1/2-20     | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-C2YK-1BF-OH | O/H KIT                    | 1        | Prop    | For aftermarket use only |

**IDS No.:** 1974      **Rev.:** 1      **IC Date:** 07/07/2015

**Modifier:** FLETCHAIR  
**Engine Model:** IO-360-C1C6  
**Power:** 200 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 29.0 +-2.0  
**Cwt Angle:**

**Non-HPI Governor:**

### TRANSAVIA

**Model:** PL 12/400 AIRTRUK  
**Trade Name:**  
**Aircraft T.C./STC:** Unknown  
**Propeller Model:** HC-C3YR-1RF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** F8475R  
**Prop Diameter:** 86"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.3 +-0.1  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

#### Hartzell Approved Items:

| Item Type     | Item Number | Description                | Quantity | Qty Per | Comments |
|---------------|-------------|----------------------------|----------|---------|----------|
| BLADE         | F8475R      | PCP:BLADE UNIT, ALUMINUM   | 3        | Prop    |          |
| SPINNER       | A-2295-1    | SPINNER ASSEMBLY           | 1        | Prop    |          |
| GOVERNOR      | V3-2        | GOVERNOR ASSEMBLY, V-3-( ) | 1        | A/C     |          |
| MTG BOLT/STUD | A-2067      | STUD, MOUNTING, 1/2-20     | 6        | Prop    |          |

**IDS No.:** 1010      **Rev.:** -      **DM Date:** 10/01/1992

**Modifier:**  
**Engine Model:** IO-720-D1BD  
**Power:** 400 HP @ 2650 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 28.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

# HARTZELL

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TRANSAVIA

**Model:** PL-12/T-300  
**Trade Name:**  
**Aircraft T.C./STC:** A17NM  
**Propeller Model:** HC-C3YR-1RF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** F8468A-2R  
**Prop Diameter:** 84" TO 83"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 11.0 +-0.2  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number    | Description                  | Quantity | Qty Per | Comments                 |
|---------------|----------------|------------------------------|----------|---------|--------------------------|
| PROPELLER     | C3R00078       | HC-C3YR-1RF/F8468A-2R        | 1        | A/C     |                          |
| PROPELLER     | C3R00078KD     | HC-C3YR-1RF/F8468A-2R        | 1        | A/C     |                          |
| BLADE         | F8468A-2R      | PCP:BLADE UNIT, ALUM [1,1,1] | 3        | Prop    |                          |
| SPINNER       | A-2295-1       | SPINNER ASSEMBLY             | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2067         | STUD, MOUNTING, 1/2-20       | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-C3YR-1RF-OH | O/H KIT                      | 1        | Prop    | For aftermarket use only |

**IDS No.:** 1008      **Rev.:** 1      **IC Date:** 07/16/2015

**Modifier:**  
**Engine Model:** IO-540-K1A5, -K1B5  
**Power:** 300 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 28.0 +-0.5  
**Cwt Angle:**

**Non-HPI Governor:**

TRANSAVIA

**Model:** AIRTRUK  
**Trade Name:**  
**Aircraft T.C./STC:** Unknown  
**Propeller Model:** HC-C2YR-1BF  
**Propeller T.C.:** P-920  
**Blade Model(s):** F8475+2  
**Prop Diameter:** 86"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 11.5 +-0.1  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number | Description                  | Quantity | Qty Per | Comments |
|---------------|-------------|------------------------------|----------|---------|----------|
| BLADE         | F8475+2     | PCP:BLADE UNIT, ALUM [1,1,1] | 2        | Prop    |          |
| MTG BOLT/STUD | A-2067      | STUD, MOUNTING, 1/2-20       | 6        | Prop    |          |

**IDS No.:** 1009      **Rev.:** -      **DM Date:** 10/01/1992

**Modifier:**  
**Engine Model:** IO-540-K1A5  
**Power:** 300 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 28.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

# HARTZELL

TRI-R TECHNOLOGIES

## APPLICATION GUIDE

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IDS No.: 1556      Rev.: 1      IC      Date: 07/07/2015

**Model:** TR-4  
**Trade Name:** KIS CRUISER  
**Aircraft T.C./STC:** Experimental  
**Propeller Model:** BHC-C2YF-1BF  
**Propeller T.C.:** P-920  
**Blade Model(s):** F7694-2  
**Prop Diameter:** 74" TO 73"

**Modifier:**  
**Engine Model:** IO-360-ES  
**Power:** 210 HP @ 2800 RPM  
**Placard/Restr:**  
**Notes:**

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.5 +-0.1  
**Stud Protrusion** 1.120 +-0.030

**Startlock Angle:** NA  
**Feather/High Angle:** 35.0 +-1.0  
**Cwt Angle:**

### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>        | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|---------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | C2F00026           | BHC-C2YF-1BF/F7694-2/SM19 | 1               | A/C            |                          |
| BLADE            | F7694-2            | PCP:BLADE UNIT, ALUMINUM  | 2               | Prop           |                          |
| SPINNER          | A-2295-P           | SPINNER ASSEMBLY          | 1               | Prop           |                          |
| SPIN MTG KIT     | A-2476-19          | SPINNER - MTG KIT         | 1               | Prop           |                          |
| MTG BOLT/STUD    | A-2429-3           | STUD, MOUNTING, 1/2-20    | 6               | Prop           |                          |
| OVERHAUL KIT     | BHC-C2YF-1BF-OH    | O/H KIT                   | 1               | Prop           | For aftermarket use only |

# HARTZELL

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Turkish Aerospace Industries, Inc

IDS No.: 3200 Rev.: 5 IC Date: 06/12/2017

Model: TT32  
 Trade Name: H<sup>o</sup>rku?  
 Aircraft T.C./STC: EASA.IM.A.500  
 Propeller Model: HC-B5MA-2A  
 Propeller T.C.: P44GL

Modifier:  
 Engine Model: PT6A-68T  
 Power: 1600 HP @ 2000 RPM  
 Placard/Restr: Avoid continuous ground operation between 500 and 800 RPM, between 1050 and 1350 RPM, and between 1750 and 1950 RPM. The propeller may be operated when feathered at or below 500 RPM.

Blade Model(s): M9128NSAK\*1  
 Prop Diameter: 94"

Notes: Must be provided with an export certificate of airworthiness.

### Prop Setup:

Ref. Radius: 30  
 Reverse Angle: N/A  
 Low Pitch Angle: 12.0 +/- 0.1  
 Stud Protrusion

Startlock Angle: N/A  
 Feather/High Angle: 86.6 +/- 0.5  
 Cwt Angle: 22.0 +/- 1.5

### Non-HPI Items:

Non-HPI Spinner:

Non-HPI Governor:

### Hartzell Approved Items:

| Item Type                      | Item Number  | Description                    | Quantity | Qty Per | Comments                 |
|--------------------------------|--------------|--------------------------------|----------|---------|--------------------------|
| PROPELLER                      | B5A10012S    | HC-B5MA-2A/M9128NSAK[*1]       | 1        | A/C     |                          |
| PROPELLER                      | B5A10012SKD  | HC-B5MA-2A/M9128NSAK[*1]       | 1        | A/C     |                          |
| BLADE                          | M9128NSAK*1  | PCP:BLADE UNIT, ALUM [1,23,4]  | 5        | Prop    |                          |
| SPINNER                        | 104478       | SPINNER ASSEMBLY               | 1        | Prop    |                          |
| SPINNER                        | 104478P      | SPINNER ASSEMBLY               | 1        | Prop    |                          |
| SPIN MTG KIT                   | B-3384-5H    | BOLT, 1/4-28, HEX HEAD         | 10       | Prop    |                          |
| SPIN MTG KIT                   | B-3808-4     | NUT,HEX,SELF-LOCKING           | 10       | Prop    |                          |
| SPIN MTG KIT                   | B-3837-0432  | WASHER, CORROSION RESISTANT    | 20       | Prop    |                          |
| SP MT KIT DE-ICE               | B-3384-9H    | BOLT, 1/4-28, HEX HEAD         | 10       | Prop    |                          |
| SP MT KIT DE-ICE               | B-3808-4     | NUT,HEX,SELF-LOCKING           | 10       | Prop    |                          |
| SP MT KIT DE-ICE               | B-3837-0432  | WASHER, CORROSION RESISTANT    | 10       | Prop    |                          |
| SP MT KIT DE-ICE               | B-7077-52    | BELLEVILLE SPRING WASHER       | 10       | Prop    |                          |
| COUNTERWEIGHT SLUG A-890-16    |              | PCP:SLUG, COUNTERWEIGHT        | 1        | Blade   |                          |
| COUNTERWEIGHT SLUG B-3384-4H   |              | BOLT, 1/4-28, HEX HEAD         | 2        | Blade   |                          |
| COUNTERWEIGHT SLUG B-3386-14H  |              | BOLT,3/8-24,HEX HEAD           | 2        | Blade   |                          |
| COUNTERWEIGHT SLUG B-3834-0632 |              | WASHER                         | 2        | Blade   |                          |
| COUNTERWEIGHT SLUG B-3851-0463 |              | WASHER                         | 2        | Blade   |                          |
| COUNTERWEIGHT SLUG C-6081      |              | PCP:SLUG, COUNTERWEIGHT        | 1        | Blade   |                          |
| DE-ICER                        | 103601       | DE-ICE BOOT                    | 1        | Blade   |                          |
| DE-ICE KIT PR                  | 103616       | DE-ICE KIT (ONE PROP)          | 1        | Prop    |                          |
| DE-ICE KIT A/F                 | 103643       | AIRFRAME DE-ICE KIT            | 1        | A/C     |                          |
| MTG BOLT/STUD                  | B-3347       | BOLT,MOUNTING,9/16-18,12 POINT | 12       | Prop    |                          |
| OVERHAUL KIT                   | HC-B5MA-2-OH | O/H KIT                        | 1        | Prop    | For aftermarket use only |



# HARTZELL

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### TWIN COMMANDER

**Model:** see AERO COMMANDER

**Trade Name:**

**Aircraft T.C./STC:**

**Propeller Model:**

**Propeller T.C.:**

**Blade Model(s):**

**Prop Diameter:**

#### Prop Setup:

**Ref. Radius:**

**Reverse Angle:**

**Low Pitch Angle:**

**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

#### Hartzell Approved Items:

**IDS No.:** 1015

**Rev.:** -

**DM Date:** 10/01/1992

**Modifier:**

**Engine Model:**

**Power:** HP @ RPM

**Placard/Restr:**

**Notes:**

**Startlock Angle:**

**Feather/High Angle:**

**Cwt Angle:**

**Non-HPI Governor:**

### TWIN COMMANDER

**Model:** 500

**Trade Name:**

**Aircraft T.C./STC:** SA01792SE

**Propeller Model:** HC-C3YR-2UF

**Propeller T.C.:** P25EA

**Blade Model(s):** FC8468-6R

**Prop Diameter:** 80

#### Prop Setup:

**Ref. Radius:** 30

**Reverse Angle:** N/A

**Low Pitch Angle:** 12.3 +-0.2

**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

#### Hartzell Approved Items:

**IDS No.:** 2734

**Rev.:** 1

**IC Date:** 07/15/2015

**Modifier:** HARTZELL PROPELLER INC

**Engine Model:** O-540-A4A5

**Power:** 250 HP @ 2575 RPM

**Placard/Restr:**

**Notes:** STC converts 054-A2B to O-540-A4A5 configuration.

**Startlock Angle:** 18.5 +-1.5

**Feather/High Angle:** 85.5 +-0.5

**Cwt Angle:**

**Non-HPI Governor:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>             | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|--------------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | C3R00215           | HC-C3YR-2UF/FC8468-6R          | 0               |                |                          |
| PROPELLER        | C3R00215KD         | HC-C3YR-2UF/FC8468-6R          | 0               |                |                          |
| BLADE            | FC8468-6R          | PCP:BLADE,UNIT, ALUM B-3202H-2 | 3               | Prop           |                          |
| SPINNER          | C-3258             | SPINNER ASSEMBLY               | 1               | Prop           |                          |
| SPINNER          | C-3258-P           | SPINNER ASSEMBLY               | 1               | Prop           |                          |
| COUNTERWEIGHT    | B-3202H-2          | PCP:COUNTERWEIGHT              | 1               | Blade          |                          |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20         | 6               | Prop           |                          |
| OVERHAUL KIT     | HC-C3YR-2UF-OH     | O/H KIT                        | 1               | Prop           | For aftermarket use only |

# HARTZELL

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### TWIN COMMANDER

**Model:** 500 SERIES  
**Trade Name:** AERO COMMANDER  
**Aircraft T.C./STC:** STC-SA257CE  
**Propeller Model:** HC-A3VK-2  
**Propeller T.C.:** P6EA  
**Blade Model(s):**  
**Prop Diameter:** 76.6"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:**  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

#### Hartzell Approved Items:

| Item Type     | Item Number | Description                   | Quantity | Qty Per | Comments |
|---------------|-------------|-------------------------------|----------|---------|----------|
| SPINNER       | C-2513-2    | SPINNER ASSEMBLY              | 1        | Prop    |          |
| MTG BOLT/STUD | A-1328      | BOLT,MOUNTING,1/2-20,12 POINT | 3        | Prop    |          |
| MTG BOLT/STUD | A-1333-3    | BOLT,MOUNTING,1/2-20,HEX HEAD | 3        | Prop    |          |

**IDS No.:** 2057      **Rev.:** -      **DM Date:** 11/20/2003

**Modifier:** CONSOLIDATED FUEL SYSTEMS  
**Engine Model:** IO-540-A1A5  
**Power:** 250 HP @ 2575 RPM  
**Placard/Restr:**

**Notes:** Engine is turbocharged. STC formerly held by Consolidated Fuel Systems.

**Startlock Angle:** NA  
**Feather/High Angle:**  
**Cwt Angle:** Positive

**Non-HPI Governor:**

### TWIN COMMANDER

**Model:** 500 SERIES  
**Trade Name:** AERO COMMANDER  
**Aircraft T.C./STC:** STC-SA257CE  
**Propeller Model:** HC-A3MVK-2  
**Propeller T.C.:** P6EA  
**Blade Model(s):** MV7636N\*1  
**Prop Diameter:** 76.6"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** UNKNOWN  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

#### Hartzell Approved Items:

| Item Type     | Item Number | Description                   | Quantity | Qty Per | Comments |
|---------------|-------------|-------------------------------|----------|---------|----------|
| BLADE         | MV7636N*1   | PCP:BLADE UNIT, ALUM [1,3,1]  | 3        | Prop    |          |
| SPINNER       | C-2513-2    | SPINNER ASSEMBLY              | 1        | Prop    |          |
| MTG BOLT/STUD | A-1328      | BOLT,MOUNTING,1/2-20,12 POINT | 3        | Prop    |          |
| MTG BOLT/STUD | A-1333-3    | BOLT,MOUNTING,1/2-20,HEX HEAD | 3        | Prop    |          |

**IDS No.:** 14      **Rev.:** 1      **D Date:** 01/07/2011

**Modifier:** CONSOLIDATED FUEL SYSTEMS  
**Engine Model:** IO-540-A1A5  
**Power:** 250 HP @ 2575 RPM  
**Placard/Restr:**

**Notes:** Engine is turbocharged. STC formerly held by Consolidated Fuel Systems.

**Startlock Angle:** NA  
**Feather/High Angle:** UNKNOWN  
**Cwt Angle:** Positive

**Non-HPI Governor:**

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### TWIN COMMANDER

**Model:** 560  
**Trade Name:** AERO COMMANDER  
**Aircraft T.C./STC:** STC-SA2-89  
**Propeller Model:** HC-A3MV20-2  
**Propeller T.C.:** P6EA  
**Blade Model(s):** MV8833N\*1  
MV8833N-2  
**Prop Diameter:** 86.4"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 17.0 +-0.2  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 27      **Rev.:** 1      **D**      **Date:** 01/07/2011

**Modifier:** SIGNATURE FLIGHT SUPPORT  
**Engine Model:** GO-480-C1D6  
**Power:** 295 HP @ 2182 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 83.0 +-1.0  
**Cwt Angle:** Positive

**Non-HPI Governor:** WOODWARD

#### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>           | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|------------------------------|-----------------|----------------|-----------------|
| BLADE            | MV8833N*1          | PCP:BLADE UNIT, ALUM [1,3,1] | 3               | Prop           |                 |
| BLADE            | MV8833N-2          | PCP:BLADE UNIT, ALUMINUM     | 3               | Prop           |                 |
| SPINNER          | 835-10S            | SPINNER ASSEMBLY             | 1               | Prop           |                 |
| MTG BOLT/STUD    | A-63B              | PCP: NUT, SHAFT, 20 SPLINE   | 1               | Prop           |                 |
| MTG BOLT/STUD    | A-63-B             | NUT,SHAFT,20 SPLINE          | 1               | Prop           |                 |

# HARTZELL

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### TWIN COMMANDER

**Model:** 690A, 690B, 690C  
**Trade Name:** TURBO COMMANDER  
**Aircraft T.C./STC:** STC-SA3861NM

**Propeller Model:** HC-B3TN-5FL, -5NL

**Propeller T.C.:** P15EA

**Blade Model(s):** LT10876ANSB-2Q  
 LT10876NSB-2Q

**Prop Diameter:** 106.5" NO CUT OFF

#### Prop Setup:

**Ref. Radius:** 42

**Reverse Angle:** -18.0 +-0.5

**Low Pitch Angle:**

**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:** AERO AIR

**IDS No.:** 38      **Rev.:** 2      **IC Date:** 01/27/2020

**Modifier:** AERO AIR

**Engine Model:** TPE331-5-254K, TPE331-10T-511K, -512K, -513K, -515K, -516K

**Power:** 715 HP @ 1591 RPM

**Placard/Restr:**

**Notes:**

**Startlock Angle:** -6.0 +-0.2

**Feather/High Angle:** 80.0 +-0.5

**Cwt Angle:** Positive

**Non-HPI Governor:**

#### Hartzell Approved Items:

| <u>Item Type</u>               | <u>Item Number</u> | <u>Description</u>                | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|--------------------------------|--------------------|-----------------------------------|-----------------|----------------|--------------------------|
| BLADE                          | LT10876ANSB-2Q     | PCP:BLADE UNIT, ALUMINUM          | 3               | Prop           |                          |
| BLADE                          | LT10876NSB-2Q      | IDS ITEM, BLADE, 4E1601-5 BOOT    | 3               | Prop           |                          |
| SPINNER                        | 836-57P            | SPINNER ASSEMBLY                  | 1               | Prop           |                          |
| SPINNER                        | D-7330P            | SPINNER ASSEMBLY                  | 1               | Prop           |                          |
| COUNTERWEIGHT SLUG A-2038-4    |                    | SCREW, 1/4-28, CAP                | 2               | Blade          |                          |
| COUNTERWEIGHT SLUG A-3039      |                    | SLUG, COUNTERWEIGHT               | 1               | Blade          |                          |
| COUNTERWEIGHT SLUG B-3386-14H  |                    | BOLT, 3/8-24, HEX HEAD            | 2               | Blade          |                          |
| COUNTERWEIGHT SLUG B-3663      |                    | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          |                          |
| COUNTERWEIGHT SLUG B-3834-0632 |                    | WASHER                            | 2               | Blade          |                          |
| DE-ICER                        | 4H1601-5           | DE-ICE BOOT                       | 1               | Blade          | Supersedes 7931-4E1601-5 |
| DE-ICE KIT PR                  | 7931-77-023        | IDS ITEM - DE-ICE KIT             | 0               |                |                          |
| MTG BOLT/STUD                  | B-3339             | BOLT, MOUNTING, 9/16-18, 12 POINT | 8               | Prop           |                          |

# HARTZELL

## APPLICATION GUIDE

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### UNIVAIR (ERCOUPE, MOONEY)

**Model:** 415C, CD  
**Trade Name:**  
**Aircraft T.C./STC:** A718  
**Propeller Model:** HA-12UO  
**Propeller T.C.:**  
**Blade Model(s):** 7214  
7214-2  
7214-2M  
7214M  
7414  
7414M  
**Prop Diameter:** 74" TO 70"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 2110 TO 2310 RPM  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 1016 **Rev.:** - **DM Date:** 10/01/1992

**Modifier:**  
**Engine Model:** A-65-8; C-75-12, C-85-12  
**Power:** 65 HP @ 2300 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** NA  
**Cwt Angle:**

**Non-HPI Governor:** NONE

#### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u> | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|--------------------|-----------------|----------------|-----------------|
| BLADE            | 7214               | IDS Item           | 2               | Prop           |                 |
| BLADE            | 7214-2             | IDS Item           | 2               | Prop           |                 |
| BLADE            | 7214-2M            | IDS Item           | 2               | Prop           |                 |
| BLADE            | 7214M              | IDS Item           | 2               | Prop           |                 |
| BLADE            | 7414               | IDS Item           | 2               | Prop           |                 |
| BLADE            | 7414M              | IDS Item           | 2               | Prop           |                 |

### UNIVERSAL

**Model:** T-25 MILITARY TRAINER  
**Trade Name:**  
**Aircraft T.C./STC:** Experimental  
**Propeller Model:** HC-C2YK-4BF  
**Propeller T.C.:**  
**Blade Model(s):** FC8475A-2  
**Prop Diameter:** 82"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.5 +-0.1  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 1017 **Rev.:** - **DM Date:** 03/10/2003

**Modifier:**  
**Engine Model:** IO-540-K1A5  
**Power:** 300 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 33.5 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

#### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>       | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|--------------------------|-----------------|----------------|-----------------|
| BLADE            | FC8475A-2          | PCP:BLADE UNIT, ALUMINUM | 2               | Prop           |                 |
| SPINNER          | C-2513-5           | SPINNER ASSEMBLY         | 1               | Prop           |                 |
| COUNTERWEIGHT    | B-3202H-6          | PCP:COUNTERWEIGHT        | 1               | Blade          | Blade Component |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20   | 6               | Prop           |                 |

# HARTZELL

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US-LTA

IDS No.: 1019 Rev.: - DM Date: 03/10/2003

**Model:** 138S (airship)  
**Trade Name:**  
**Aircraft T.C./STC:** AS2NM  
**Propeller Model:** HC-E3YR-7LF  
**Propeller T.C.:** P33EA  
**Blade Model(s):** FLC8468G-8Q  
**Prop Diameter:** 78.75"

**Modifier:**  
**Engine Model:** IO-540-K2A5  
**Power:** 300 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** -12.0 +-0.5  
**Low Pitch Angle:** 13.0 +-0.5  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 28.0 +-1.0  
**Cwt Angle:**

### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>         | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|----------------------------|-----------------|----------------|-----------------|
| BLADE            | FLC8468G-8Q        | PCP:BLADE UNIT, ALUMINUM   | 3               | Prop           |                 |
| GOVERNOR         | F6-59              | GOVERNOR ASSEMBLY, F-6-( ) | 1               | Prop           |                 |
| COUNTERWEIGHT    | B-3202H-22         | IDS Item                   | 1               | Blade          | Blade Component |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20     | 6               | Prop           |                 |

UTVA

IDS No.: 1025 Rev.: - DM Date: 09/21/2004

**Model:** LASTA  
**Trade Name:**  
**Aircraft T.C./STC:** Unknown  
**Propeller Model:** HC-C2YR-4CF  
**Propeller T.C.:** P-920  
**Blade Model(s):** FC8475-6\*3  
**Prop Diameter:** 78"

**Modifier:**  
**Engine Model:** AEIO-540-L1A5D  
**Power:** 300 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 14.5 +-0.1  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 34.0 +-1.0  
**Cwt Angle:**

### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>            | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|-------------------------------|-----------------|----------------|-----------------|
| BLADE            | FC8475-6*3         | PCP:BLADE UNIT, B-3202H-6 CWT | 2               | Prop           |                 |
| SPINNER          | 835-42             | SPINNER ASSEMBLY              | 1               | Prop           |                 |
| GOVERNOR         | V4-3               | GOVERNOR ASSEMBLY, V-4-( )    | 1               | A/C            |                 |
| COUNTERWEIGHT    | B-3202H-6          | PCP:COUNTERWEIGHT             | 1               | Blade          | Blade Component |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20        | 6               | Prop           |                 |

# HARTZELL

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UTVA

**Model:** 66  
**Trade Name:**  
**Aircraft T.C./STC:** Unknown  
**Propeller Model:** HC-B3Z20-1  
**Propeller T.C.:** P-907  
**Blade Model(s):** 10151C-5  
10151CN-5  
**Prop Diameter:** 96"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 16.5 +-0.5  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 1020      **Rev.:** 1      **D**      **Date:** 01/10/2011

**Modifier:**  
**Engine Model:** GSO-480-B1J6  
**Power:** 340 HP @ 2182 RPM  
**Placard/Restr:**  
**Notes:** Engine gear ratio is 77:120

**Startlock Angle:** NA  
**Feather/High Angle:** 35.0 +-1.0  
**Cwt Angle:** POSITIVE

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u>             | <u>Item Number</u> | <u>Description</u>         | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------------------|--------------------|----------------------------|-----------------|----------------|-----------------|
| BLADE                        | 10151C-5           | BLADE UNIT, ALUMINUM       | 3               | Prop           |                 |
| BLADE                        | 10151CN-5          | PCP:BLADE UNIT, ALUMINUM   | 3               | Prop           |                 |
| COUNTERWEIGHT SLUG A-890     |                    | PCP:SLUG, COUNTERWEIGHT    | 1               | Blade          |                 |
| COUNTERWEIGHT SLUG B-3384-7H |                    | BOLT, 1/4-28, HEX HEAD     | 2               | Blade          |                 |
| MTG BOLT/STUD                | A-63B              | PCP: NUT, SHAFT, 20 SPLINE | 1               | Prop           |                 |
| MTG BOLT/STUD                | A-63-B             | NUT,SHAFT,20 SPLINE        | 1               | Prop           |                 |

UTVA

**Model:** 75-11AG  
**Trade Name:**  
**Aircraft T.C./STC:** Unknown  
**Propeller Model:** HC-C3YR-1RF  
**Propeller T.C.:** P25EA  
**Blade Model(s):** F8468-8R  
**Prop Diameter:** 78"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 11.4 +-0.1  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 1023      **Rev.:** -      **DM**      **Date:** 10/01/1992

**Modifier:**  
**Engine Model:** AEIO-540-L1B5D  
**Power:** 300 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 30.5 +-0.5  
**Cwt Angle:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>         | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|----------------------------|-----------------|----------------|-----------------|
| BLADE            | F8468-8R           | PCP:BLADE UNIT, ALUMINUM   | 3               | Prop           |                 |
| SPINNER          | A-4209             | SPINNER ASSEMBLY           | 1               | Prop           |                 |
| GOVERNOR         | V5-4               | GOVERNOR ASSEMBLY, V-5-( ) | 1               | A/C            |                 |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20     | 6               | Prop           |                 |

# HARTZELL

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UTVA

**Model:** 75  
**Trade Name:**  
**Aircraft T.C./STC:** Unknown  
**Propeller Model:** HC-C2YK-1BF  
**Propeller T.C.:** P-920

**Blade Model(s):** F7666-2  
F7666A-2

**Prop Diameter:** 74"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.0 +-0.1  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 1022      **Rev.:** 2      **IC Date:** 07/07/2015

**Modifier:**

**Engine Model:** IO-360-B1F

**Power:** 180 HP @ 2700 RPM

**Placard/Restr:** Avoid continuous operation between 2000 and 2250 RPM.

**Notes:**

**Startlock Angle:** NA

**Feather/High Angle:** 29.0 +-1.0

**Cwt Angle:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>       | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|--------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | C2K00048           | HC-C2YK-1BF/F7666A-2     | 1               | A/C            |                          |
| BLADE            | F7666-2            | IDS Item                 | 2               | Prop           |                          |
| BLADE            | F7666A-2           | PCP:BLADE UNIT, ALUMINUM | 2               | Prop           |                          |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20   | 6               | Prop           |                          |
| OVERHAUL KIT     | HC-C2YK-1BF-OH     | O/H KIT                  | 1               | Prop           | For aftermarket use only |

UTVA

**Model:** 75AG  
**Trade Name:**  
**Aircraft T.C./STC:** Unknown  
**Propeller Model:** HC-C2YR-1BF  
**Propeller T.C.:** P-920  
**Blade Model(s):** F8475D-4  
**Prop Diameter:** 80"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.5 +-0.1  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 1024      **Rev.:** -      **DM Date:** 10/01/1992

**Modifier:**

**Engine Model:** AEIO-540-L1B5D

**Power:** 300 HP @ 2700 RPM

**Placard/Restr:**

**Notes:**

**Startlock Angle:** NA

**Feather/High Angle:** 34.0 +-1.0

**Cwt Angle:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>           | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|------------------------------|-----------------|----------------|-----------------|
| BLADE            | F8475D-4           | PCP:BLADE UNIT, ALUM [1,1,1] | 2               | Prop           |                 |
| SPINNER          | A-2295             | SPINNER ASSEMBLY             | 1               | Prop           |                 |
| GOVERNOR         | V5-4               | GOVERNOR ASSEMBLY, V-5-( )   | 1               | A/C            |                 |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20       | 6               | Prop           |                 |



# HARTZELL

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UTVA

IDS No.: 2866 Rev.: 1 IC Date: 07/07/2015

**Model:** 95  
**Trade Name:** LASTA  
**Aircraft T.C./STC:** unknown  
**Propeller Model:** HC-C2YR-4CF  
**Propeller T.C.:** P-920  
**Blade Model(s):** FC8475-8  
**Prop Diameter:** 76"

**Modifier:**  
**Engine Model:** AEIO-580-B1A  
**Power:** 315 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** 15.5+-0.1  
**Stud Protrusion**

**Startlock Angle:**  
**Feather/High Angle:** 41.0+-1.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>        | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|---------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | C2R00238           | HC-C2YR-4CF/FC8475-8/SM32 | 1               | A/C            |                          |
| BLADE            | FC8475-8           | PCP:BLADE UNIT, ALUMINUM  | 2               | Prop           |                          |
| GOVERNOR         | S-4-3              | GOVERNOR ASSEMBLY, S-4-3  | 1               | A/C            |                          |
| GOVERNOR         | V4-3               | GOVERNOR ASSEMBLY, V-4( ) | 1               | A/C            |                          |
| SPIN MTG KIT     | A-2476-32          | SPINNER - MTG KIT         | 1               | Prop           |                          |
| COUNTERWEIGHT    | B-3202H-7          | PCP:COUNTERWEIGHT         | 1               | Blade          |                          |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20    | 6               | Prop           |                          |
| OVERHAUL KIT     | HC-C2YR-4CF-OH     | O/H KIT                   | 1               | Prop           | For aftermarket use only |

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# HARTZELL

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VALMET

**Model:** L-70  
**Trade Name:** VINKA  
**Aircraft T.C./STC:** Unknown  
**Propeller Model:** HC-C2YR-4F  
**Propeller T.C.:** P-920  
**Blade Model(s):** FC7666A-2  
**Prop Diameter:** 74"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 14.0 +-0.1  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type     | Item Number | Description                   | Quantity | Qty Per | Comments        |
|---------------|-------------|-------------------------------|----------|---------|-----------------|
| BLADE         | FC7666A-2   | PCP:BLADE UNIT, B-3202H-6 CWT | 2        | Prop    |                 |
| SPINNER       | C-2513-5    | SPINNER ASSEMBLY              | 1        | Prop    |                 |
| COUNTERWEIGHT | B-3202H-6   | PCP:COUNTERWEIGHT             | 1        | Blade   | Blade Component |
| MTG BOLT/STUD | A-2067      | STUD, MOUNTING, 1/2-20        | 6        | Prop    |                 |

**IDS No.:** 1026      **Rev.:** -      **DM Date:** 09/21/2004

**Modifier:**  
**Engine Model:** IO-360-A1B6; AEIO-360-A1B6  
**Power:** 200 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:** "K" Flange approved.

**Startlock Angle:** NA  
**Feather/High Angle:** 28.5 +-1.5  
**Cwt Angle:**

**Non-HPI Governor:**

VALMET

**Model:** L-90TP  
**Trade Name:** REDIGO  
**Aircraft T.C./STC:** Unknown  
**Propeller Model:** HC-B3TF-7A  
**Propeller T.C.:** P15EA  
**Blade Model(s):** T10173-15  
T10173N-15  
**Prop Diameter:** 85.6"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** -11.0 +-0.5  
**Low Pitch Angle:**  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Hartzell Approved Items:**

| Item Type          | Item Number   | Description                      | Quantity | Qty Per | Comments                 |
|--------------------|---------------|----------------------------------|----------|---------|--------------------------|
| BLADE              | T10173-15     | BLADE                            | 3        | Prop    |                          |
| BLADE              | T10173N-15    | PCP:BLADE UNIT, ALUMINUM         | 3        | Prop    |                          |
| SPINNER            | A-3640        | SPINNER ASSEMBLY                 | 1        | Prop    |                          |
| SPIN MTG KIT       | A-3648        | SPINNER - MTG KIT                | 1        | Prop    |                          |
| COUNTERWEIGHT SLUG | B-3386-14H    | BOLT, 3/8-24, HEX HEAD           | 2        | Blade   |                          |
| COUNTERWEIGHT SLUG | B-3663-3      | PCP:SLUG, COUNTERWEIGHT          | 1        | Blade   |                          |
| COUNTERWEIGHT SLUG | B-3834-0632   | WASHER                           | 2        | Blade   |                          |
| DE-ICE KIT PR      | 7931-67-490-1 | IDS ITEM - DE-ICE KIT            | 1        | Prop    |                          |
| MTG BOLT/STUD      | A-1328-1      | BOLT, MOUNTING, 1/2-20, 12 POINT | 6        | Prop    |                          |
| OVERHAUL KIT       | HC-B3TF-7A-OH | O/H KIT                          | 1        | Prop    | For aftermarket use only |

**IDS No.:** 1028      **Rev.:** 2      **IC Date:** 07/15/2015

**Modifier:**  
**Engine Model:** 250-B17D  
**Power:** 420 HP @ 2030 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 84.0 +-0.5  
**Cwt Angle:** Positive

**Non-HPI Governor:**

# HARTZELL

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Van's

IDS No.: 3794      Rev.: 2      IC      Date: 03/23/2022

**Model:** RV-(6,7,8,14)(A)  
**Trade Name:** RV-(6,7,8,14)(A)  
**Aircraft T.C./STC:** Experimental  
**Propeller Model:** 3C1-R430A1X  
**Propeller T.C.:**  
**Blade Model(s):** 76CS03-2X2  
                               76CS03-4X2  
**Prop Diameter:** 74", 72"

**Modifier:**  
**Engine Model:** (I)O-360/390-()  
**Power:** 180 HP @ 2700 RPM  
**Placard/Restr:**

**Notes:** Remove TC, PC and assembly S/N from hub. Remove PC from blades.

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** 12.5 +/- 0.2  
**Stud Protrusion**

**Startlock Angle:**  
**Feather/High Angle:** 30.0 MIN  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>            | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>                  |
|------------------|--------------------|-------------------------------|-----------------|----------------|----------------------------------|
| PROPELLER        | 3CR00390X          | 3C1-R430A1X/76CS03-4X2/SM9    | 1               | A/C            |                                  |
| PROPELLER        | 3CR00408X          | 3C1-R430A1X/76CS03-2X2/SM9    | 1               | A/C            |                                  |
| BLADE            | 76CS03-2X2         | PCP:BLADE ASSEMBLY, COMPOSITE | 3               | Prop           |                                  |
| BLADE            | 76CS03-4X2         | PCP:BLADE ASSEMBLY, COMPOSITE | 3               | Prop           |                                  |
| SPINNER          | 107186PX           | SPINNER ASSEMBLY              | 1               | A/C            |                                  |
| SPINNER          | 107974             | SPINNER ASSEMBLY, COMPOSITE   | 1               | Prop           | Primed for Paint                 |
| SPINNER          | 107974F1           | SPINNER ASSEMBLY, COMPOSITE   | 1               | Prop           | Painted Matterhorn White         |
| SPINNER          | 107974F2           | SPINNER ASSEMBLY, COMPOSITE   | 1               | Prop           | Painted Sterling Silver Metallic |
| SPIN MTG KIT     | A-2476-9           | SPINNER - MTG KIT             | 1               | Prop           |                                  |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20        | 6               | Prop           |                                  |

# HARTZELL

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VAN'S

IDS No.: 3151 Rev.: 6 IC Date: 02/18/2022

**Model:** RV-10  
**Trade Name:** RV-10  
**Aircraft T.C./STC:** Experimental  
**Propeller Model:** HC-C3Y1R-1N(X)  
**Propeller T.C.:** P25EA  
**Blade Model(s):** N7605C  
N7605CX  
**Prop Diameter:** 78"

**Modifier:**  
**Engine Model:** (I)O-540-( )4( )5  
**Power:** 260 HP @ 2700 RPM  
**Placard/Restr:** None.

**Notes:** For experimental propeller part numbers; remove PC and TC from blades and hub, and remove propeller assembly serial number from hub.

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** 11.0 +/- 0.2  
**Stud Protrusion**

**Startlock Angle:**  
**Feather/High Angle:** 31.0 +/- 1.0  
**Cwt Angle:**

### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>        | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>                 |
|------------------|--------------------|---------------------------|-----------------|----------------|---------------------------------|
| PROPELLER        | C3R62000           | HC-C3Y1R-1N/N7605C/SM9    | 1               | A/C            | Superseded by C3R62000X         |
| PROPELLER        | C3R62000X          | HC-C3Y1R-1NX/N7605CX/SM9  | 1               | A/C            |                                 |
| BLADE            | N7605C             | PCP:BLADE ASSY, COMPOSITE | 2               | Prop           | Superseded by N7605CX           |
| BLADE            | N7605CX            | PCP:BLADE ASSY, COMPOSITE | 3               | Prop           |                                 |
| SPINNER          | C-4582             | SPINNER ASSEMBLY          | 1               | A/C            |                                 |
| SPINNER          | C-4582-P           | SPINNER ASSEMBLY          | 1               | A/C            |                                 |
| GOVERNOR         | S-1-26             | GOVERNOR ASSEMBLY, S-1-26 | 1               | A/C            | Only for the O-540-A4D5 engine. |
| SPIN MTG KIT     | A-2476-9           | SPINNER - MTG KIT         | 1               | Prop           |                                 |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20    | 6               | Prop           |                                 |

# HARTZELL

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VAN'S

IDS No.: 3784      Rev.: 3      IC      Date: 02/08/2022

**Model:** RV-10  
**Trade Name:** RV-10  
**Aircraft T.C./STC:** Experimental  
**Propeller Model:** HC-G3Y1R-1NX  
**Propeller T.C.:**  
**Blade Model(s):** N7605CX  
**Prop Diameter:** 78"

**Modifier:**  
**Engine Model:** (I)O-540-( )4( )5  
**Power:** 260 HP @ 2700 RPM  
**Placard/Restr:**

**Notes:** Remove TC, PC and assembly S/N from hub. Remove PC from blades. Extension, SMK, and spinner configured for Showplanes cowling.

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** 11.0 +/- 0.2  
**Stud Protrusion**

**Startlock Angle:**  
**Feather/High Angle:** 31.0 +/- 1.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>        | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>                 |
|------------------|--------------------|---------------------------|-----------------|----------------|---------------------------------|
| PROPELLER        | G3R00500X          | HC-G3Y1R-1NX/N7605CX/SM9  | 1               | A/C            |                                 |
| BLADE            | N7605CX            | PCP:BLADE ASSY, COMPOSITE | 3               | Prop           |                                 |
| SPINNER          | D-7709             | SPINNER ASSEMBLY          | 1               | A/C            |                                 |
| SPINNER          | D-7709P            | SPINNER ASSEMBLY          | 1               | A/C            |                                 |
| GOVERNOR         | S-1-26             | GOVERNOR ASSEMBLY, S-1-26 | 1               | A/C            | Only for the O-540-A4D5 engine. |
| GOVERNOR         | S-1-32             | GOVERNOR ASSEMBLY, S-1-32 | 1               | A/C            | Used with (Y)IO-540-D4A5        |
| SPIN MTG KIT     | A-2476-9           | SPINNER - MTG KIT         | 1               | Prop           |                                 |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20    | 6               | Prop           |                                 |

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### VANS AIRCRAFT

**Model:** RV-4, 6, 7, 8, 14  
**Trade Name:** RV-4, 6, 7, 8, 14  
**Aircraft T.C./STC:** Experimental  
**Propeller Model:** HC-C2YR-1BFPX  
**Propeller T.C.:**  
**Blade Model(s):** F7497  
 F7497\*6  
 F7497\*6X  
 F7497-2  
 F7497-2X  
 F7497X

**Prop Diameter:** 74" TO 72"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** 13.6 +-0.2  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 2604      **Rev.:** 12      |      **Date:** 09/22/2022

**Modifier:**

**Engine Model:** IO-360 & YIO-390-A3B6

**Power:** 200 HP @ 2700 RPM

**Placard/Restr:** Refer to Hartzell Manual 193, Volume 1.

**Notes:** S-1-10 Governor is configured for .866:1 drive ratio and will control the propeller to a maximum of 2700 RPM. The C-3533-1P spinner fits Showplanes Cowling only. Remove PC and TC from blades and hub, and remove propeller assembly serial number from hub.

**Startlock Angle:**

**Feather/High Angle:** 35.0 +-2.0

**Cwt Angle:**

**Non-HPI Governor:**

#### Hartzell Approved Items:

| Item Type     | Item Number    | Description                   | Quantity | Qty Per | Comments   |
|---------------|----------------|-------------------------------|----------|---------|--|
| PROPELLER     | C2R10700       | HC-C2YR-1BFP/F7497/SM8        | 1        | A/C     | Superseded by experimental item C2R10700X                        |
| PROPELLER     | C2R10700X      | HC-C2YR-1BFPX/F7497X/SM8      | 1        | A/C     |  |
| PROPELLER     | C2R10713       | HC-C2YR-1BFP/F7497[*4]/SM8    | 1        | A/C     | Superseded by experimental item                                  |
| PROPELLER     | C2R10723       | HC-C2YR-1BFP/F7497*1/SM8      | 1        | A/C     | Superseded by experimental item                                  |
| PROPELLER     | C2R10724       | HC-C2YR-1BFP/F7497*6/SM8      | 1        | A/C     | Superseded by experimental item C2R10724X for this installation  |
| PROPELLER     | C2R10724X      | HC-C2YR-1BFPX/F7497*6X/SM8    | 1        | A/C     |  |
| PROPELLER     | C2R10751       | HC-C2YR-1BFP/F7497-2/SM8      | 1        | A/C     | Superseded by experimental item C2R10751X                        |
| PROPELLER     | C2R10751X      | HC-C2YR-1BFPX/F7497-2X/SM8    | 1        | A/C     |  |
| PROPELLER     | C2R10753       | HC-C2YR-1BFP/F7497-2[*1]/SM8  | 1        | A/C     | Superseded by experimental item                                  |
| PROPELLER     | C2R10754       | HC-C2YR-1BFP/F7497-2[*2]/SM8  | 1        | A/C     | New prop p/n w/ 3,1,11 scheme<br>Superseded by experimental item |
| BLADE         | F7497          | PCP:BLADE UNIT, ALUM [6,1,11] | 2        | Prop    | Superseded by experimental item F7497X                           |
| BLADE         | F7497*6        | PCP:BLADE UNIT, ALUM [3,1,11] | 2        | Prop    | Superseded by experimental item F7497*6X for this installation   |
| BLADE         | F7497*6X       | PCP:BLADE UNIT, ALUM [3,1,11] | 2        | Prop    |  |
| BLADE         | F7497-2        | PCP:BLADE UNIT, ALUM [6,1,11] | 2        | Prop    | Superseded by experimental item F7497-2X                         |
| BLADE         | F7497-2X       | PCP:BLADE UNIT, ALUM [6,1,11] | 2        | Prop    |  |
| BLADE         | F7497X         | PCP:BLADE UNIT, ALUM [6,1,11] | 2        | Prop    |  |
| SPINNER       | C-3533-1P      | SPINNER ASSEMBLY              | 1        | Prop    |  |
| GOVERNOR      | S-1-10         | GOVERNOR ASSEMBLY, S-1-10     | 1        | A/C     | .866:1,Rear Mnt,2700 Max RPM                                     |
| GOVERNOR      | S-1-79         | GOVERNOR ASSEMBLY, S-1-79     | 1        |         | Governor for (Y)IO-390-A(1,3)B6 engines only.                    |
| SPIN MTG KIT  | A-2476-8       | SPINNER - MTG KIT             | 1        | Prop    |  |
| MTG BOLT/STUD | A-2067         | STUD, MOUNTING, 1/2-20        | 6        | Prop    |  |
| OVERHAUL KIT  | HC-C2YR-1BF-OH | O/H KIT                       | 1        | Prop    | For aftermarket use only   |

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VANS AIRCRAFT

IDS No.: 3313 Rev.: 1 IC Date: 07/07/2015

**Model:** RV-4, 6, 7, 8, 14

**Trade Name:**

**Aircraft T.C./STC:** Experimental

**Propeller Model:** HC-C2YR-1BFP

**Propeller T.C.:** P-920

**Blade Model(s):** F7497

F7497\*4

F7497-2

F7497-2\*1

F7497-2\*2

**Prop Diameter:** 74" TO 72"

### Prop Setup:

**Ref. Radius:** 30

**Reverse Angle:**

**Low Pitch Angle:** 12.6 +-0.2

**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**Modifier:**

**Engine Model:** (Y)IO-360-M1B

**Power:** 180 HP @ 2700 RPM

**Placard/Restr:**

**Notes:** S-1-10 Governor is configured for .866:1 drive ratio and will control the propeller to a maximum of 2700 RPM. The C-3533-1P spinner fits Showplanes Cowling only

**Startlock Angle:**

**Feather/High Angle:** 35.0 +-2.0

**Cwt Angle:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>            | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>              |
|------------------|--------------------|-------------------------------|-----------------|----------------|------------------------------|
| PROPELLER        | C2R10725           | HC-C2YR-1BFP/F7497/SM8        | 1               | A/C            |                              |
| PROPELLER        | C2R10727           | HC-C2YR-1BFP/F7497-2/SM8      | 1               | A/C            |                              |
| PROPELLER        | C2R10729           | HC-C2YR-1BFP/F7497-2[*1]/SM8  | 1               | A/C            |                              |
| PROPELLER        | C2R10731           | HC-C2YR-1BFP/F7497[*4]/SM8    | 1               | A/C            |                              |
| PROPELLER        | C2R10733           | HC-C2YR-1BFP/F7497-2[*2]/SM8  | 1               | A/C            |                              |
| BLADE            | F7497              | PCP:BLADE UNIT, ALUM [6,1,11] | 2               | Prop           |                              |
| BLADE            | F7497*4            | PCP:BLADE UNIT, ALUM [3,6,4]  | 2               | Prop           |                              |
| BLADE            | F7497-2            | PCP:BLADE UNIT, ALUM [6,1,11] | 2               | Prop           |                              |
| BLADE            | F7497-2*1          | PCP:BLADE UNIT, ALUM [3,6,4]  | 2               | Prop           |                              |
| BLADE            | F7497-2*2          | PCP:BLADE UNIT, ALUM [3,1,11] | 2               | Prop           |                              |
| SPINNER          | C-3533-1P          | SPINNER ASSEMBLY              | 1               | Prop           |                              |
| GOVERNOR         | S-1-10             | GOVERNOR ASSEMBLY, S-1-10     | 1               | A/C            | .866:1,Rear Mnt,2700 Max RPM |
| SPIN MTG KIT     | A-2476-8           | SPINNER - MTG KIT             | 1               | Prop           |                              |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20        | 6               | Prop           |                              |
| OVERHAUL KIT     | HC-C2YR-1BF-OH     | O/H KIT                       | 1               | Prop           | For aftermarket use only     |



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### VAN'S AIRCRAFT

**Model:** RV-4, -6, -7

**Trade Name:**

**Aircraft T.C./STC:** Experimental

**Propeller Model:** HC-C2YR-1NX

**Propeller T.C.:**

**Blade Model(s):** N7605-4

N7605-4X

**Prop Diameter:** 72"

#### **Prop Setup:**

**Ref. Radius:** 30

**Reverse Angle:**

**Low Pitch Angle:** 12.1 +/-0.2

**Stud Protrusion**

#### **Non-HPI Items:**

**Non-HPI Spinner:**

**IDS No.:** 2894

**Rev.:** 2

**IC Date:** 04/08/2022

**Modifier:**

**Engine Model:** (I)O-360 Series

**Power:** 180 HP @ 2700 RPM

**Placard/Restr:** No vibration testing completed.

**Notes:**

**Startlock Angle:**

**Feather/High Angle:** 33.0 +/- 0.5

**Cwt Angle:**

**Non-HPI Governor:**

#### **Hartzell Approved Items:**

| <b><u>Item Type</u></b> | <b><u>Item Number</u></b> | <b><u>Description</u></b> | <b><u>Quantity</u></b> | <b><u>Qty Per</u></b> | <b><u>Comments</u></b>                    |
|-------------------------|---------------------------|---------------------------|------------------------|-----------------------|---|
| PROPELLER               | C2R33000                  | HC-C2YR-1N/N7605-4/SM8    | 1                      | A/C                   | Superseded by experimental item C2R33000X |
| PROPELLER               | C2R33000X                 | HC-C2YR-1NX/N7605-4X/SM8  | 1                      | A/C                   |   |
| BLADE                   | N7605-4                   | PCP:BLADE ASSY, COMPOSITE | 2                      | Prop                  | Superseded by experimental item N7605-4X  |
| BLADE                   | N7605-4X                  | PCP:BLADE ASSY, COMPOSITE | 2                      | Prop                  |   |
| SPIN MTG KIT            | A-2476-8                  | SPINNER - MTG KIT         | 1                      | Prop                  |   |
| MTG BOLT/STUD           | A-2067                    | STUD, MOUNTING, 1/2-20    | 6                      | Prop                  |   |

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### VAN'S AIRCRAFT

**Model:** RV-4, 6, 7, 9  
**Trade Name:** RV-4, 6, 7, 9  
**Aircraft T.C./STC:** Experimental  
**Propeller Model:** HC-C2YR-1NX  
**Propeller T.C.:**

**Blade Model(s):** N7605-2X  
 N7605X  
**Prop Diameter:** 76-74"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** -  
**Low Pitch Angle:** 11.0 +/- 0.2  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

#### Hartzell Approved Items:

**IDS No.:** 2848      **Rev.:** 3      **IC Date:** 04/08/2022

**Modifier:**

**Engine Model:** (I)O-360

**Power:** 200 HP @ 2700 RPM

**Placard/Restr:** (I)O-360 180 Hp with 8.5:1 or less and dual magneto ignition: None.

**Notes:** Remove PC and TC from blades and hub.  
 Remove propeller assembly serial number from hub.

**Startlock Angle:** -

**Feather/High Angle:** 33.0 +/- 0.5

**Cwt Angle:** -

**Non-HPI Governor:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>        | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>                           |
|------------------|--------------------|---------------------------|-----------------|----------------|---|
| PROPELLER        | C2R31053           | HC-C2YR-1N/N7605/SM8      | 1               | A/C            | Superseded by experimental item C2R31053X |
| PROPELLER        | C2R31053X          | HC-C2YR-1NX/N7605X/SM8    | 1               | A/C            |   |
| PROPELLER        | C2R32000           | HC-C2YR-1N/N7605-2/SM8    | 1               | A/C            | Superseded by experimental item C2R32000X |
| PROPELLER        | C2R32000X          | HC-C2YR-1NX/N7605-2X/SM8  | 1               | A/C            |   |
| BLADE            | N7605-2X           | PCP:BLADE ASSY, COMPOSITE | 2               | Prop           |   |
| BLADE            | N7605X             | BLADE ASSEMBLY, COMPOSITE | 2               | Prop           |   |
| SPIN MTG KIT     | A-2476-8           | SPINNER - MTG KIT         | 1               | Prop           |   |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20    | 6               | Prop           |   |

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### VAN'S AIRCRAFT

**Model:** RV-4, -8  
**Trade Name:**  
**Aircraft T.C./STC:** Experimental  
**Propeller Model:** HC-G2YR-1NWX  
**Propeller T.C.:**

**Blade Model(s):** N7605W-2X  
 N7605WX

**Prop Diameter:** 76"-72"

#### Prop Setup:

**Ref. Radius:** 30"  
**Reverse Angle:**  
**Low Pitch Angle:** 11.0 +/- 0.2  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

#### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>         | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|----------------------------|-----------------|----------------|-----------------|
| #Error           | N7605-4X           | PCP:BLADE ASSY, COMPOSITE  | 2               | Prop           |                 |
| PROPELLER        | G2R00300X          | HC-G2YR-1NWX/N7605WX/SM8   | 1               | A/C            |                 |
| PROPELLER        | G2R00400X          | HC-G2YR-1NWX/N7605W-2X/SM8 | 1               | A/C            |                 |
| PROPELLER        | G2R00410X          | HC-G2YR-1NWX/N7605-4X/SM8  | 1               | A/C            |                 |
| BLADE            | N7605W-2X          | PCP:BLADE ASSY, COMPOSITE  | 2               | Prop           |                 |
| BLADE            | N7605WX            | PCP:BLADE ASSY, COMPOSITE  | 2               | Prop           |                 |
| SPINNER          | D-4798P            | SPINNER ASSEMBLY           | 1               | Prop           |                 |
| SPIN MTG KIT     | A-2476-8           | SPINNER - MTG KIT          | 1               | Prop           |                 |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20     | 6               | Prop           |                 |

**IDS No.:** 3263      **Rev.:** 5      **IC Date:** 03/09/2022

**Modifier:**

**Engine Model:** IO-360 Series

**Power:** 180 HP @ 2700 RPM

**Placard/Restr:** With 8.5:1 compression ratio, dual magneto ignition, and without crankshaft counterweights: None.

**Notes:** Remove TC, PC and assembly S/N from hub. Remove PC from blades.

**Startlock Angle:**

**Feather/High Angle:** 34.0 +/- 1.0

**Cwt Angle:**

**Non-HPI Governor:**

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### VAN'S AIRCRAFT

**Model:** RV-4, -8  
**Trade Name:**  
**Aircraft T.C./STC:** EXPERIMENTAL  
**Propeller Model:** HC-C2YR-1NWX  
**Propeller T.C.:**  
**Blade Model(s):** N7605W-2X  
 N7605WX  
**Prop Diameter:** 76"-74"

#### Prop Setup:

**Ref. Radius:** 30"  
**Reverse Angle:**  
**Low Pitch Angle:** 11.0 +/- 0.2  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 3231      **Rev.:** 1      **IC Date:** 07/07/2015

**Modifier:**  
**Engine Model:** IO-360 Series  
**Power:** 200 HP @ 2700 RPM  
**Placard/Restr:**

**Notes:** Remove TC, PC and assembly S/N from hub. Remove PC from blades.

**Startlock Angle:**  
**Feather/High Angle:** 27.5 +/- 0.5  
**Cwt Angle:**

**Non-HPI Governor:**

#### Hartzell Approved Items:

| Item Type     | Item Number | Description                | Quantity | Qty Per | Comments |
|---------------|-------------|----------------------------|----------|---------|----------|
| PROPELLER     | C2R80000X   | HC-C2YR-1NWX/N7605WX/SM8   | 1        | A/C     |          |
| PROPELLER     | C2R80100X   | HC-C2YR-1NWX/N7605W-2X/SM8 | 1        | A/C     |          |
| BLADE         | N7605W-2X   | PCP:BLADE ASSY, COMPOSITE  | 2        | Prop    |          |
| BLADE         | N7605WX     | PCP:BLADE ASSY, COMPOSITE  | 2        | Prop    |          |
| SPIN MTG KIT  | A-2476-8    | SPINNER - MTG KIT          | 1        | Prop    |          |
| MTG BOLT/STUD | A-2067      | STUD, MOUNTING, 1/2-20     | 6        | Prop    |          |

### VAN'S AIRCRAFT

**Model:** RV-4,-6,-7,-8,-9  
**Trade Name:** RV-4,-6,-7,-8,-9  
**Aircraft T.C./STC:** Experimental  
**Propeller Model:** HC-M2YR-1BFPX  
**Propeller T.C.:**  
**Blade Model(s):** F7497X  
**Prop Diameter:** 74" to 72"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** 13.6 +/-0.2  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 2569      **Rev.:** 3      **IC Date:** 01/31/2022

**Modifier:** JAMES AIRCRAFT  
**Engine Model:** IO-390 & IO-360  
**Power:** 210 HP @ 2700 RPM  
**Placard/Restr:**

**Notes:** S-1-10 governor is configured for .866:1 drive ratio and will control the propeller to a maximum of 2700 RPM.

**Startlock Angle:**  
**Feather/High Angle:** 35.0 +/-2.0  
**Cwt Angle:**

**Non-HPI Governor:**

#### Hartzell Approved Items:

| Item Type     | Item Number    | Description                   | Quantity | Qty Per | Comments                        |
|---------------|----------------|-------------------------------|----------|---------|---------------------------------|
| PROPELLER     | M2R20002       | HC-M2YR-1BFP/F7497/SM8        | 1        | A/C     | Superseded by experimental item |
| PROPELLER     | M2R20002X      | HC-M2YR-1BFPX/F7497X/SM8      | 1        |         |                                 |
| BLADE         | F7497X         | PCP:BLADE UNIT, ALUM [6,1,11] | 2        | Prop    |                                 |
| SPIN MTG KIT  | A-2476-8       | SPINNER - MTG KIT             | 1        | Prop    |                                 |
| MTG BOLT/STUD | A-2067         | STUD, MOUNTING, 1/2-20        | 6        | Prop    |                                 |
| OVERHAUL KIT  | HC-M2YR-1BF-OH | O/H KIT                       | 1        | Prop    | For aftermarket use only        |

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### VAN'S AIRCRAFT

IDS No.: 2049 Rev.: 6 IC Date: 03/17/2022

Model: RV-10  
 Trade Name: RV-10  
 Aircraft T.C./STC: Experimental  
 Propeller Model: HC-C2YR-1BFPX  
 Propeller T.C.:  
 Blade Model(s): F8068D  
 F8068DX  
 F8068DX\*3  
 F8068X

Modifier:  
 Engine Model: IO-540-D4A5  
 Power: 260 HP @ 2700 RPM  
 Placard/Restr: None.

Notes: Remove PC and TC from blades and hub and remove propeller assembly serial number from hub.

Prop Diameter: 80

#### Prop Setup:

Ref. Radius: 30  
 Reverse Angle:  
 Low Pitch Angle: 13.5 +-0.2  
 Stud Protrusion

Startlock Angle:  
 Feather/High Angle: 31.0 +-1.0  
 Cwt Angle:

#### Non-HPI Items:

Non-HPI Spinner: VAN'S

Non-HPI Governor:

#### Hartzell Approved Items:

| Item Type     | Item Number    | Description                  | Quantity | Qty Per | Comments                                  |
|---------------|----------------|------------------------------|----------|---------|---|
| PROPELLER     | C2R00780       | HC-C2YR-1BF/F8068/SM8        | 1        | A/C     | Superseded by experimental item C2R00780X |
| PROPELLER     | C2R00780X      | HC-C2YR-1BFX/F8068X/SM8      | 1        | A/C     |   |
| PROPELLER     | C2R00800       | HC-C2YR-1BF/F8068D/SM8       | 1        | A/C     | Superseded by experimental item C2R10800X |
| PROPELLER     | C2R10800       | HC-C2YR-1BFP/F8068D/SM8      | 1        | A/C     | Superseded by experimental item C2R10800X |
| PROPELLER     | C2R10800X      | HC-C2YR-1BFPX/F8068DX/SM8    | 1        | A/C     |   |
| PROPELLER     | C2R10804       | HC-C2YR-1BFP/F8068D*4/SM8    | 1        | A/C     | Superseded by experimental item C2R10804X |
| PROPELLER     | C2R10804X      | HC-C2YR-1BFPX/F8068DX*3/SM8  | 1        | A/C     |   |
| BLADE         | F8068D         | PCP:BLADE UNIT, ALUM [6,1,5] | 2        | Prop    | Superseded by experimental item F8068DX   |
| BLADE         | F8068DX        | PCP:BLADE UNIT, ALUM [6,1,5] | 2        | Prop    |   |
| BLADE         | F8068DX*3      | PCP:BLADE UNIT, ALUM [3,1,5] | 2        | Prop    |   |
| BLADE         | F8068X         | PCP:BLADE UNIT, ALUM [1,1,5] | 2        | Prop    |   |
| GOVERNOR      | S-1-32         | GOVERNOR ASSEMBLY, S-1-32    | 1        | A/C     |   |
| SPIN MTG KIT  | A-2476-8       | SPINNER - MTG KIT            | 1        | Prop    |   |
| MTG BOLT/STUD | A-2067         | STUD, MOUNTING, 1/2-20       | 6        | Prop    |   |
| OVERHAUL KIT  | HC-C2YR-1BF-OH | O/H KIT                      | 1        | Prop    | For aftermarket use only                  |

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### VAN'S AIRCRAFT

**Model:** RV-10  
**Trade Name:**  
**Aircraft T.C./STC:** Experimental  
**Propeller Model:** HC-C3YR-1N  
**Propeller T.C.:** P25EA

**Blade Model(s):** N7605  
**Prop Diameter:** 78"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** 11.0 +/- 0.2  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 2842      **Rev.:** -      **DM Date:** 03/31/2010

**Modifier:**

**Engine Model:** (I)O-540-( )4( )5

**Power:** 260 HP @ 2700 RPM

**Placard/Restr:** (I)O-540-( )4( )5 engines with 8.5:1. Not compatible with Electronic Ignition or FADEC

**Notes:** -

**Startlock Angle:**

**Feather/High Angle:** 31.0 +/- 1.0

**Cwt Angle:**

**Non-HPI Governor:**

#### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>        | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|---------------------------|-----------------|----------------|-----------------|
| PROPELLER        | C3R21000           | HC-C3YR-1N/N7605/SM9      | 1               | A/C            |                 |
| BLADE            | N7605              | PCP:BLADE ASSY, COMPOSITE | 3               | Prop           |                 |
| SPIN MTG KIT     | A-2476-9           | SPINNER - MTG KIT         | 1               | Prop           |                 |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20    | 6               | Prop           |                 |

### VAN'S AIRCRAFT

**Model:** RV-10  
**Trade Name:**  
**Aircraft T.C./STC:** Experimental  
**Propeller Model:** HC-C3YR-1N  
**Propeller T.C.:** P25EA

**Blade Model(s):** N7605C  
**Prop Diameter:** 78"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** 11.0 +/- 0.2  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 3124      **Rev.:** -      **DM Date:** 01/06/2012

**Modifier:**

**Engine Model:** (I)O-540-( )4( )5

**Power:** 260 HP @ 2700 RPM

**Placard/Restr:** (I)O-540-( )4( )5 engines with 8.5:1. Not compatible with Electronic Ignition or FADEC

**Notes:**

**Startlock Angle:**

**Feather/High Angle:** 31.0 +/- 1.0

**Cwt Angle:**

**Non-HPI Governor:**

#### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>        | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|---------------------------|-----------------|----------------|-----------------|
| PROPELLER        | C3R61000           | HC-C3YR-1N/N7605C/SM9     | 1               | A/C            |                 |
| BLADE            | N7605C             | PCP:BLADE ASSY, COMPOSITE | 3               | Prop           |                 |
| SPIN MTG KIT     | A-2476-9           | SPINNER - MTG KIT         | 1               | Prop           |                 |

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### VAN'S AIRCRAFT

**Model:** RV-4,-6,-7,-8,-9  
**Trade Name:** RV-4,-6,-7,-8,-9  
**Aircraft T.C./STC:** Experimental  
**Propeller Model:** HC-M2YR-1BFPX  
**Propeller T.C.:**  
**Blade Model(s):** F7497-2X  
**Prop Diameter:** 72"

**IDS No.:** 3796      **Rev.:** 2      **IC Date:** 11/06/2020  
**Modifier:**  
**Engine Model:** (I)O-360-()  
**Power:** 180 HP @ 2700 RPM  
**Placard/Restr:** With compression ratio less than 8.5:1: None  
**Notes:** Extension typically used with James Aircraft cowling. Remove PC from blades, remove TC, PC and Assembly S/N from hub.

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** 13.5 +-0.2  
**Stud Protrusion**

**Startlock Angle:**  
**Feather/High Angle:** 35.0 +-2.0  
**Cwt Angle:**

#### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:**

#### Hartzell Approved Items:

| Item Type     | Item Number | Description                   | Quantity | Qty Per | Comments |
|---------------|-------------|-------------------------------|----------|---------|----------|
| PROPELLER     | M2R20021X   | HC-M2YR-1BFPX/F7497-2X/SM8    | 1        | A/C     |          |
| BLADE         | F7497-2X    | PCP:BLADE UNIT, ALUM [6,1,11] | 2        | Prop    |          |
| SPIN MTG KIT  | A-2476-8    | SPINNER - MTG KIT             | 1        | Prop    |          |
| MTG BOLT/STUD | A-2067      | STUD, MOUNTING, 1/2-20        | 6        | Prop    |          |

### VAN'S AIRCRAFT

**Model:** RV-3, 4, 6/6A, 7/7A, 8/8A, 9/9A  
**Trade Name:**  
**Aircraft T.C./STC:** Experimental  
**Propeller Model:** HC-C2YL-1BFX  
**Propeller T.C.:**  
**Blade Model(s):** F7663-4  
F7663-4X  
**Prop Diameter:** 72"-70"

**IDS No.:** 1173      **Rev.:** 3      **IC Date:** 07/18/2022  
**Modifier:**  
**Engine Model:** O-320-(A,B,C,D,E)(1,3)()  
**Power:** 160 HP @ 2700 RPM  
**Placard/Restr:** 8.5:1 or lower compression ratio with dual magnetos: No operating restrictions  
**Notes:** S-1-10 Governor is configured for .866:1 drive ratio and will control the propeller to a maximum of 2700 RPM.

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 11.1 +-0.2  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 38.5 +-1.0  
**Cwt Angle:**

#### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:**

#### Hartzell Approved Items:

| Item Type     | Item Number    | Description                    | Quantity | Qty Per | Comments                                  |
|---------------|----------------|--------------------------------|----------|---------|---|
| PROPELLER     | C2L00040       | HC-C2YL-1BF/F7663-4/SM8        | 1        | A/C     | Superseded by experimental item C2L00040X |
| PROPELLER     | C2L00040X      | HC-C2YL-1BFX/F7663-4X/SM8      | 1        | A/C     |   |
| BLADE         | F7663-4        | PCP:BLADE UNIT, ALUMINUM       | 2        | Prop    | Superseded by experimental item F7663-4X  |
| BLADE         | F7663-4X       | PCP:BLADE UNIT, ALUMINUM       | 2        | Prop    |   |
| GOVERNOR      | S-1-10         | GOVERNOR ASSEMBLY, S-1-10      | 1        | A/C     | .866:1,Rear Mnt,2700 Max RPM              |
| SPIN MTG KIT  | A-2476-8       | SPINNER - MTG KIT              | 1        | Prop    |   |
| MTG BOLT/STUD | A-2247-1       | STUD, MOUNTING,7/16-20,DRILLED | 6        | Prop    |   |
| OVERHAUL KIT  | HC-C2YL-1BF-OH | O/H KIT                        | 1        | Prop    | For aftermarket use only                  |

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### VAN'S AIRCRAFT

**Model:** RV-4  
**Trade Name:**  
**Aircraft T.C./STC:** Experimental  
**Propeller Model:** HC-C2YR-1BF  
**Propeller T.C.:** P-920  
**Blade Model(s):** F7068-2  
**Prop Diameter:** 68.0" TO 67.0"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.0 +-0.1  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 1513      **Rev.:** 1      **IC Date:** 07/07/2015

**Modifier:**  
**Engine Model:** O-360 SERIES  
**Power:** 180 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 32.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

#### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>       | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|--------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | C2R00013           | HC-C2YR-1BF/F7068-2/SM8  | 1               | A/C            |                          |
| BLADE            | F7068-2            | PCP:BLADE UNIT, ALUMINUM | 2               | Prop           |                          |
| SPIN MTG KIT     | A-2476-8           | SPINNER - MTG KIT        | 1               | Prop           |                          |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20   | 6               | Prop           |                          |
| OVERHAUL KIT     | HC-C2YR-1BF-OH     | O/H KIT                  | 1               | Prop           | For aftermarket use only |

### VAN'S AIRCRAFT

**Model:** RV-4  
**Trade Name:**  
**Aircraft T.C./STC:** Experimental  
**Propeller Model:** HC-F2YL-1FX  
**Propeller T.C.:**  
  
**Blade Model(s):** F7663-4  
F7663-4X  
**Prop Diameter:** 72.0" TO 70.0"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 11.1 +-0.2  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 1031      **Rev.:** 2      **IC Date:** 07/18/2022

**Modifier:**  
**Engine Model:** O-320-(A,B,C,D,E)(1,3)() **Power:** 160 HP @ 2700 RPM  
**Placard/Restr:** Compression ratio 8.5:1 or less with dual magneto ignition: None.

**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 38.5 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

#### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>               | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>                           |
|------------------|--------------------|----------------------------------|-----------------|----------------|---|
| PROPELLER        | F2L00030           | HC-F2YL-1F/F7663-4/SM8           | 1               | A/C            | Superseded by experimental item F2L00030X |
| PROPELLER        | F2L00030X          | HC-F2YL-1FX/F7663-4X/SM8         | 1               | A/C            |   |
| BLADE            | F7663-4            | PCP:BLADE UNIT, ALUMINUM         | 2               | Prop           | Superseded by experimental item F7663-4X  |
| BLADE            | F7663-4X           | PCP:BLADE UNIT, ALUMINUM         | 2               | Prop           |   |
| SPIN MTG KIT     | A-2476-8           | SPINNER - MTG KIT                | 1               | Prop           |   |
| MTG BOLT/STUD    | A-2247-1           | STUD, MOUNTING, 7/16-20, DRILLED | 6               | Prop           |   |
| OVERHAUL KIT     | HC-F2YL-1F-OH      | O/H KIT                          | 1               | Prop           | For aftermarket use only                  |



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VAN'S AIRCRAFT

**Model:** RV-4  
**Trade Name:**  
**Aircraft T.C./STC:** Experimental  
**Propeller Model:** HC-F2YR-1F  
**Propeller T.C.:** P27EA  
  
**Blade Model(s):** F7666A-4  
**Prop Diameter:** 72" NO CUT OFF

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.0 +-0.1  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 1376      **Rev.:** 1      **IC Date:** 07/07/2015

**Modifier:**  
**Engine Model:** O-360-A1A  
**Power:** 180 HP @ 2700 RPM  
**Placard/Restr:** Avoid continuous operation between 2000 and 2250 RPM

### Notes:

**Startlock Angle:** NA  
**Feather/High Angle:** 29.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| Item Type     | Item Number   | Description              | Quantity | Qty Per | Comments                 |
|---------------|---------------|--------------------------|----------|---------|--------------------------|
| PROPELLER     | F2R00040      | HC-F2YR-1F/F7666A-4/SM8  | 1        | A/C     |                          |
| BLADE         | F7666A-4      | PCP:BLADE UNIT, ALUMINUM | 2        | Prop    |                          |
| SPIN MTG KIT  | A-2476-8      | SPINNER - MTG KIT        | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2067        | STUD, MOUNTING, 1/2-20   | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-F2YR-1F-OH | O/H KIT                  | 1        | Prop    | For aftermarket use only |

VAN'S AIRCRAFT

**Model:** RV-4  
**Trade Name:**  
**Aircraft T.C./STC:** Experimental  
**Propeller Model:** HC-F2YR-1F  
**Propeller T.C.:** P27EA  
**Blade Model(s):** F7068-2  
**Prop Diameter:** 68.0" TO 67.0"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.0 +-0.1  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 1399      **Rev.:** 1      **IC Date:** 07/07/2015

**Modifier:**  
**Engine Model:** O-360 SERIES  
**Power:** 180 HP @ 2700 RPM  
**Placard/Restr:**

### Notes:

**Startlock Angle:** NA  
**Feather/High Angle:** 32.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| Item Type     | Item Number   | Description              | Quantity | Qty Per | Comments                 |
|---------------|---------------|--------------------------|----------|---------|--------------------------|
| PROPELLER     | F2R00072      | HC-F2YR-1F/F7068-2/SM8   | 1        | A/C     |                          |
| BLADE         | F7068-2       | PCP:BLADE UNIT, ALUMINUM | 2        | Prop    |                          |
| SPIN MTG KIT  | A-2476-8      | SPINNER - MTG KIT        | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2067        | STUD, MOUNTING, 1/2-20   | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-F2YR-1F-OH | O/H KIT                  | 1        | Prop    | For aftermarket use only |

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### VAN'S AIRCRAFT

**Model:** RV-4, -6, -7, -8

**Trade Name:**

**Aircraft T.C./STC:** Experimental

**Propeller Model:** HC-C2YR-1BF

**Propeller T.C.:** P-920

**Blade Model(s):** F7496

F7496\*1

F7496-2

F7496-2\*1

**Prop Diameter:** 74" TO 72"

**IDS No.:** 1905

**Rev.:** 1

**D**

**Date:** 01/25/2011

**Modifier:**

**Engine Model:** (I)O(F)-360-A1A

**Power:** 180 HP @ 2700 RPM

**Placard/Restr:** DO NOT OPERATE ABOVE 22 INCHES MP BELOW 2350 RPM. O-360-A1A: OPERATION ABOVE 2600 RPM IS LIMITED TO TAKEOFF, IOF-360-A1A: MAXIMUM ENGINE SPEED LIMITED TO 2650 RPM.

**Notes:** O-360-A1A OR SIMILAR MAY HAVE LIGHTSPEED PLASMA II ELECTRONIC IGNITION. IOF-360-A1A OR SIMILAR EQUIPPED WITH AEROSANCE FADEC..... "Effective Aug 14, 2003, propellers listed on this Installation Data Sheet are no longer active for new production. See IDS 2330 for new production propellers having a "P" suffix in the propeller hub model (i.e. HC-C2YR-1BFP)"

#### Prop Setup:

**Ref. Radius:** 30

**Reverse Angle:** NA

**Low Pitch Angle:** 12.0 +- 0.2

**Stud Protrusion**

**Startlock Angle:** NA

**Feather/High Angle:** 35.0 +-1.0

**Cwt Angle:**

#### Non-HPI Items:

**Non-HPI Spinner:** VAN'S

**Non-HPI Governor:**

#### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>            | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|-------------------------------|-----------------|----------------|-----------------|
| PROPELLER        | C2R00603           | HC-C2YR-1BF/F7496/SM8         | 1               | A/C            |                 |
| PROPELLER        | C2R00620           | HC-C2YR-1BF/F7496[*1]/SM8     | 1               | A/C            |                 |
| PROPELLER        | C2R00650           | HC-C2YR-1BF/F7496-2/SM8       | 1               | A/C            |                 |
| PROPELLER        | C2R00660           | HC-C2YR-1BF/F7496-2[*1]/SM8   | 1               | A/C            |                 |
| BLADE            | F7496              | PCP:BLADE UNIT, ALUM [6,1,11] | 2               | Prop           |                 |
| BLADE            | F7496*1            | PCP:BLADE UNIT, ALUM [3,1,11] | 2               | Prop           |                 |
| BLADE            | F7496-2            | PCP:BLADE UNIT, ALUM [6,1,11] | 2               | Prop           |                 |
| BLADE            | F7496-2*1          | PCP:BLADE UNIT, ALUM [3,1,11] | 2               | Prop           |                 |
| SPIN MTG KIT     | A-2476-8           | SPINNER - MTG KIT             | 1               | Prop           |                 |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20        | 6               | Prop           |                 |

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### VAN'S AIRCRAFT

**Model:** RV-4,-6,-7,-8  
**Trade Name:**  
**Aircraft T.C./STC:** Experimental  
**Propeller Model:** HC-C2YR-1BFP  
**Propeller T.C.:** P-920

**IDS No.:** 2330      **Rev.:** 2      **IC Date:** 07/07/2015

**Modifier:**  
**Engine Model:** (I)O(F)-360-A1A  
**Power:** 180 HP @ 2700 RPM  
**Placard/Restr:** DO NOT OPERATE ABOVE 22 INCHES MP BELOW 2350 RPM. O-360-A1A: OPERATION ABOVE 2600 RPM IS LIMITED TO TAKEOFF, IOF-360-A1A: MAXIMUM ENGINE SPEED LIMITED TO 2650 RPM.

**Blade Model(s):** F7496  
 F7496\*1  
 F7496-2  
 F7496-2\*1  
**Prop Diameter:** 74" TO 72"

**Notes:** O-360-A1A OR SIMILAR MAY HAVE LIGHTSPEED PLASMA II ELECTRONIC IGNITION. IOF-360-A1A OR SIMILAR EQUIPPED WITH AEROSANCE FADEC; S-1-10 Governor is configured for .866:1 drive ratio and will control the propeller to a maximum of 2700 RPM.

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.0 +- 0.2  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 35.0 +-1.0  
**Cwt Angle:**

#### Non-HPI Items:

**Non-HPI Spinner:** VAN'S

**Non-HPI Governor:**

#### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>            | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>              |
|------------------|--------------------|-------------------------------|-----------------|----------------|------------------------------|
| PROPELLER        | C2R10000           | HC-C2YR-1BFP/F7496/SM8        | 1               | A/C            |                              |
| PROPELLER        | C2R10200           | HC-C2YR-1BFP/F7496[*1]/SM8    | 1               | A/C            |                              |
| PROPELLER        | C2R10400           | HC-C2YR-1BFP/F7496-2/SM8      | 1               | A/C            |                              |
| PROPELLER        | C2R10600           | HC-C2YR-1BFP/F7496-2[*1]/SM8  | 1               | A/C            |                              |
| BLADE            | F7496              | PCP:BLADE UNIT, ALUM [6,1,11] | 2               | Prop           |                              |
| BLADE            | F7496*1            | PCP:BLADE UNIT, ALUM [3,1,11] | 2               | Prop           |                              |
| BLADE            | F7496-2            | PCP:BLADE UNIT, ALUM [6,1,11] | 2               | Prop           |                              |
| BLADE            | F7496-2*1          | PCP:BLADE UNIT, ALUM [3,1,11] | 2               | Prop           |                              |
| SPINNER          | A-2295-P           | SPINNER ASSEMBLY              | 1               | Prop           |                              |
| GOVERNOR         | S-1-10             | GOVERNOR ASSEMBLY, S-1-10     | 1               | A/C            | .866:1,Rear Mnt,2700 Max RPM |
| SPIN MTG KIT     | A-2476-8           | SPINNER - MTG KIT             | 1               | Prop           |                              |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20        | 6               | Prop           |                              |
| OVERHAUL KIT     | HC-C2YR-1BF-OH     | O/H KIT                       | 1               | Prop           | For aftermarket use only     |

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### VAN'S AIRCRAFT

**Model:** RV-4,-6,-7,-8,-9  
**Trade Name:**  
**Aircraft T.C./STC:** Experimental  
**Propeller Model:** HC-M2YR-1BFP  
**Propeller T.C.:** P43GL

**Blade Model(s):** F7496  
 F7496\*1  
 F7496-2  
 F7496-2\*1

**Prop Diameter:** 74"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.0 +- 0.2  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:** VAN'S

**IDS No.:** 2536      **Rev.:** 1      **IC Date:** 07/07/2015

**Modifier:** JAMES AIRCRAFT

**Engine Model:** (I)O(F)-360-A1A

**Power:** 180 HP @ 2700 RPM

**Placard/Restr:** Do not operate above 22 inches MP below 2350 RPM. O-360-A1A: Operation above 2600 RPM limited to takeoff, IOF-360-A1A: Maximum engine speed limited to 2650

**Notes:** O-360-A1A or similar may have Lightspeed Plasma II Electronic Ignition. IOF-360-A1A or similar equipped with Aerosance FADEC; Aircraft has a modified cowl.

**Startlock Angle:** NA

**Feather/High Angle:** 35.0 +-1.0

**Cwt Angle:**

**Non-HPI Governor:**

#### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>            | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|-------------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | M2R10000           | HC-M2YR-1BFP/F7496/SM8        | 1               | A/C            |                          |
| PROPELLER        | M2R10050           | HC-M2YR-1BFP/F7496[*1]/SM8    | 1               | A/C            |                          |
| PROPELLER        | M2R10100           | HC-M2YR-1BFP/F7496-2/SM8      | 1               | A/C            |                          |
| PROPELLER        | M2R10150           | HC-M2YR-1BFP/F7496-2[*1]/SM8  | 1               | A/C            |                          |
| BLADE            | F7496              | PCP:BLADE UNIT, ALUM [6,1,11] | 2               | Prop           |                          |
| BLADE            | F7496*1            | PCP:BLADE UNIT, ALUM [3,1,11] | 2               | Prop           |                          |
| BLADE            | F7496-2            | PCP:BLADE UNIT, ALUM [6,1,11] | 2               | Prop           |                          |
| BLADE            | F7496-2*1          | PCP:BLADE UNIT, ALUM [3,1,11] | 2               | Prop           |                          |
| SPIN MTG KIT     | A-2476-8           | SPINNER - MTG KIT             | 1               | Prop           |                          |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20        | 6               | Prop           |                          |
| OVERHAUL KIT     | HC-M2YR-1BF-OH     | O/H KIT                       | 1               | Prop           | For aftermarket use only |

# HARTZELL

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### VAN'S AIRCRAFT

**Model:** RV-6  
**Trade Name:**  
**Aircraft T.C./STC:** Experimental  
**Propeller Model:** HC-C2YR-4CF  
**Propeller T.C.:** P-920  
**Blade Model(s):** FC7666A-2  
 FC7666A-4  
**Prop Diameter:** 74"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.5 +-0.2  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

#### Hartzell Approved Items:

| Item Type     | Item Number    | Description                   | Quantity | Qty Per | Comments                 |
|---------------|----------------|-------------------------------|----------|---------|--------------------------|
| PROPELLER     | C2R00231       | HC-C2YR-4CF/FC7666A-2/SM8     | 1        | A/C     |                          |
| BLADE         | FC7666A-2      | PCP:BLADE UNIT, B-3202H-6 CWT | 2        | Prop    |                          |
| BLADE         | FC7666A-4      | PCP:BLADE UNIT, B-3202H-6 CWT | 2        | Prop    |                          |
| SPINNER       | 836-60         | SPINNER ASSEMBLY              | 1        | Prop    |                          |
| SPINNER       | 836-60P        | SPINNER ASSEMBLY              | 1        | Prop    |                          |
| SPIN MTG KIT  | A-2476-8       | SPINNER - MTG KIT             | 1        | Prop    |                          |
| COUNTERWEIGHT | B-3202H-6      | PCP:COUNTERWEIGHT             | 1        | Blade   | Blade Component          |
| MTG BOLT/STUD | A-2067         | STUD, MOUNTING, 1/2-20        | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-C2YR-4CF-OH | O/H KIT                       | 1        | Prop    | For aftermarket use only |

**IDS No.:** 1033      **Rev.:** 1      **IC Date:** 07/07/2015

**Modifier:**  
**Engine Model:** IO-360 SERIES  
**Power:** 200 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 29.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

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### VAN'S AIRCRAFT

**Model:** RV-6  
**Trade Name:**  
**Aircraft T.C./STC:** Experimental  
**Propeller Model:** HC-C2YK-1BFP  
**Propeller T.C.:** P-920

**Blade Model(s):** F7666A-2  
F7666A-4  
**Prop Diameter:** 74" TO 72"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.1 +-0.2  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:** VAN'S

#### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>        | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|---------------------------|-----------------|----------------|-----------------|
| PROPELLER        | C2K10500           | HC-C2YK-1BFP/F7666A-2/SM8 | 1               | A/C            |                 |
| PROPELLER        | C2K10700           | HC-C2YK-1BFP/F7666A-4/SM8 | 1               | A/C            |                 |
| BLADE            | F7666A-2           | PCP:BLADE UNIT, ALUMINUM  | 2               | Prop           |                 |
| BLADE            | F7666A-4           | PCP:BLADE UNIT, ALUMINUM  | 2               | Prop           |                 |
| SPIN MTG KIT     | A-2476-8           | SPINNER - MTG KIT         | 1               | Prop           |                 |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20    | 6               | Prop           |                 |

**IDS No.:** 2331      **Rev.:** -      **DM Date:** 05/06/2005

**Modifier:**

**Engine Model:** (I)O-360-A1A

**Power:** 200 HP @ 2700 RPM

**Placard/Restr:** Avoid continuous operation between 2000 and 2250 RPM. Operation above 2600 RPM limited to takeoff only. Propeller blades are life limited and must be retired upon reaching 8700 hours.

**Notes:** O-360-A1A or similar rated at 180 HP @ 2700 RPM equipped with Lightspeed Plasma II Electronic Ignition.

**Startlock Angle:** NA

**Feather/High Angle:** 37.5 +-1.0

**Cwt Angle:**

**Non-HPI Governor:**

# HARTZELL

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### VAN'S AIRCRAFT

**Model:** RV-6  
**Trade Name:**  
**Aircraft T.C./STC:** Experimental  
**Propeller Model:** HC-F2YL-1F  
**Propeller T.C.:** P27EA  
**Blade Model(s):** F7663D-4  
F7663D-6Q  
**Prop Diameter:** 72"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.0 +-0.1  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 1363      **Rev.:** 1      **IC Date:** 07/07/2015

**Modifier:**  
**Engine Model:** (I)O-320  
**Power:** 160 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 30.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

#### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>               | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|----------------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | F2L00065           | HC-F2YL-1F/F7663D-6Q/SM8         | 1               | A/C            |                          |
| BLADE            | F7663D-4           | PCP:BLADE UNIT, ALUMINUM         | 2               | Prop           |                          |
| BLADE            | F7663D-6Q          | PCP:BLADE UNIT, ALUMINUM         | 2               | Prop           |                          |
| SPIN MTG KIT     | A-2476-8           | SPINNER - MTG KIT                | 1               | Prop           |                          |
| MTG BOLT/STUD    | A-2247-1           | STUD, MOUNTING, 7/16-20, DRILLED | 6               | Prop           |                          |
| OVERHAUL KIT     | HC-F2YL-1F-OH      | O/H KIT                          | 1               | Prop           | For aftermarket use only |

### VAN'S AIRCRAFT

**Model:** RV-6  
**Trade Name:**  
**Aircraft T.C./STC:** Experimental  
**Propeller Model:** HC-F2YR-1F  
**Propeller T.C.:** P27EA  
**Blade Model(s):** F7666A-4  
**Prop Diameter:** 72" NO CUT OFF

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.0 +-0.1  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 1375      **Rev.:** -      **DM Date:** 08/26/2006

**Modifier:**  
**Engine Model:** O-360-A1A  
**Power:** 180 HP @ 2700 RPM  
**Placard/Restr:** Avoid continuous operation between 2000 and 2250 RPM  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 29.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

#### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>       | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|--------------------------|-----------------|----------------|-----------------|
| BLADE            | F7666A-4           | PCP:BLADE UNIT, ALUMINUM | 2               | Prop           |                 |
| SPIN MTG KIT     | A-2476-8           | SPINNER - MTG KIT        | 1               | Prop           |                 |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20   | 6               | Prop           |                 |

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VAN'S AIRCRAFT

**Model:** RV-6  
**Trade Name:**  
**Aircraft T.C./STC:** Experimental  
**Propeller Model:** HC-F2YR-1F  
**Propeller T.C.:** P27EA

**Blade Model(s):** F7666A-2  
**Prop Diameter:** 74"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.0 +-0.2  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>       | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|--------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | F2R00033           | HC-F2YR-1F/F7666A-2/SM4  | 1               | A/C            |                          |
| BLADE            | F7666A-2           | PCP:BLADE UNIT, ALUMINUM | 2               | Prop           |                          |
| SPIN MTG KIT     | A-2476-4           | SPINNER - MTG KIT        | 1               | Prop           |                          |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20   | 6               | Prop           |                          |
| OVERHAUL KIT     | HC-F2YR-1F-OH      | O/H KIT                  | 1               | Prop           | For aftermarket use only |

**IDS No.:** 1733      **Rev.:** 1      **IC Date:** 07/07/2015

**Modifier:**  
**Engine Model:** O-360 SERIES  
**Power:** 180 HP @ 2700 RPM  
**Placard/Restr:** Avoid continuous operation between 2000 and 2250 RPM

### **Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 29.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

VAN'S AIRCRAFT

**Model:** RV-6  
**Trade Name:**  
**Aircraft T.C./STC:** Experimental  
**Propeller Model:** HC-M2YR-1BF  
**Propeller T.C.:** P43GL

**Blade Model(s):** F7666A-2  
**Prop Diameter:** 72"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.1 +-0.2  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>       | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|--------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | M2R00033           | HC-M2YR-1BF/F7666A-2/SM8 | 1               | A/C            |                          |
| BLADE            | F7666A-2           | PCP:BLADE UNIT, ALUMINUM | 2               | Prop           |                          |
| SPIN MTG KIT     | A-2476-8           | SPINNER - MTG KIT        | 1               | Prop           |                          |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20   | 6               | Prop           |                          |
| OVERHAUL KIT     | HC-M2YR-1BF-OH     | O/H KIT                  | 1               | Prop           | For aftermarket use only |

**IDS No.:** 1408      **Rev.:** 1      **IC Date:** 07/07/2015

**Modifier:**  
**Engine Model:** O-360 SERIES  
**Power:** 180 HP @ 2700 RPM  
**Placard/Restr:** Avoid continuous operation between 2000 and 2250 RPM

### **Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 37.5 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**



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### VAN'S AIRCRAFT

**Model:** RV-6  
**Trade Name:**  
**Aircraft T.C./STC:** Experimental  
**Propeller Model:** HC-C2YK-1BFX  
**Propeller T.C.:**  
**Blade Model(s):** F7666A-2  
 F7666A-2X  
 F7666A-4  
 F7666A-4X  
**Prop Diameter:** 74" TO 72"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.1 +-0.2  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:** VAN'S

**IDS No.:** 1032      **Rev.:** 2      **IC Date:** 07/18/2022

**Modifier:**

**Engine Model:** (I)O-360-()

**Power:** 200 HP @ 2700 RPM

**Placard/Restr:** Varied.

**Notes:** S-1-10 Governor is configured for .866:1 drive ratio and will control the propeller to a maximum of 2700 RPM.

**Startlock Angle:** NA

**Feather/High Angle:** 31.0 +-1.0

**Cwt Angle:**

**Non-HPI Governor:**

#### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>         | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>                           |
|------------------|--------------------|----------------------------|-----------------|----------------|---|
| PROPELLER        | C2K00043           | HC-C2YK-1BF/F7666A-2/SM8   | 1               | A/C            | Superseded by experimental item C2K00043X |
| PROPELLER        | C2K00043X          | HC-C2YK-1BFX/F7666A-2X/SM8 | 1               | A/C            |   |
| PROPELLER        | C2K00060           | HC-C2YK-1BF/F7666A-4/SM8   | 1               | A/C            | Superseded by experimental item C2K00060X |
| PROPELLER        | C2K00060X          | HC-C2YK-1BFX/F7666A-4X/SM8 | 1               | A/C            |   |
| BLADE            | F7666A-2           | PCP:BLADE UNIT, ALUMINUM   | 2               | Prop           | Superseded by experimental item F7666A-2X |
| BLADE            | F7666A-2X          | PCP:BLADE UNIT, ALUMINUM   | 2               | Prop           |   |
| BLADE            | F7666A-4           | PCP:BLADE UNIT, ALUMINUM   | 2               | Prop           | Superseded by experimental item F7666A-4X |
| BLADE            | F7666A-4X          | PCP:BLADE UNIT, ALUMINUM   | 2               | Prop           |   |
| GOVERNOR         | S-1-10             | GOVERNOR ASSEMBLY, S-1-10  | 1               | A/C            | .866:1,Rear Mnt,2700 Max RPM              |
| SPIN MTG KIT     | A-2476-8           | SPINNER - MTG KIT          | 1               | Prop           |   |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20     | 6               | Prop           |   |
| OVERHAUL KIT     | HC-C2YK-1BF-OH     | O/H KIT                    | 1               | Prop           | For aftermarket use only                  |

# HARTZELL

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### VAN'S AIRCRAFT

**Model:** RV-6, -8  
**Trade Name:**  
**Aircraft T.C./STC:** Experimental  
**Propeller Model:** HC-C2YF-1BF  
**Propeller T.C.:** P-920  
**Blade Model(s):** F8459-4  
F8459A-4  
**Prop Diameter:** 80"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 9.5 +-0.1  
**Stud Protrusion** 1.450 +-0.030

#### Non-HPI Items:

**Non-HPI Spinner:** VAN'S

**IDS No.:** 1537      **Rev.:** -      **DM Date:** 05/05/2005

**Modifier:**  
**Engine Model:** 6A-350-C1, -C2  
**Power:** 215 HP @ 2800 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 35.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

#### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>       | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|--------------------------|-----------------|----------------|-----------------|
| BLADE            | F8459-4            | PCP:BLADE UNIT, ALUMINUM | 2               | Prop           |                 |
| BLADE            | F8459A-4           | PCP:BLADE UNIT, ALUMINUM | 2               | Prop           |                 |
| GOVERNOR         | F4-9               | IDS Item                 | 1               | A/C            |                 |
| SPIN MTG KIT     | A-2476-8           | SPINNER - MTG KIT        | 1               | Prop           |                 |
| MTG BOLT/STUD    | A-2429-4           | STUD, MOUNTING, 1/2-20   | 6               | Prop           |                 |

### VAN'S AIRCRAFT

**Model:** RV-8  
**Trade Name:**  
**Aircraft T.C./STC:** Experimental  
**Propeller Model:** HC-C2YK-1BF  
**Propeller T.C.:** P-920  
**Blade Model(s):** F7666A  
**Prop Diameter:** 76"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 12.0 +-0.2  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:** VAN'S

**IDS No.:** 1544      **Rev.:** -      **DM Date:** 05/05/2005

**Modifier:**  
**Engine Model:** IO-360-B SERIES  
**Power:** 180 HP @ 2700 RPM  
**Placard/Restr:** Avoid continuous operation between 2100 and 2250 RPM  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 37.5 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

#### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>           | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|------------------------------|-----------------|----------------|-----------------|
| PROPELLER        | C2K00039           | HC-C2YK-1BF/F7666A/SM8       | 1               | A/C            |                 |
| BLADE            | F7666A             | PCP:BLADE UNIT, ALUM [1,1,1] | 2               | Prop           |                 |
| SPIN MTG KIT     | A-2476-8           | SPINNER - MTG KIT            | 1               | Prop           |                 |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20       | 6               | Prop           |                 |

# HARTZELL

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### VAN'S AIRCRAFT

**Model:** RV-8  
**Trade Name:**  
**Aircraft T.C./STC:** Experimental  
**Propeller Model:** HC-M2YR-1BFX  
**Propeller T.C.:**

**Blade Model(s):** F7666A  
F7666AX  
**Prop Diameter:** 76" to 73"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.0 +-0.2  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 1540      **Rev.:** 2      **IC Date:** 07/18/2022

**Modifier:**  
**Engine Model:** IO-360-A1B6  
**Power:** 200 HP @ 2700 RPM  
**Placard/Restr:** With 8.5:1 compression ratio or less and dual magneto ignition: Avoid continuous operation between 2100 and 2350 RPM

#### **Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 37.5 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

#### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>           | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>                           |
|------------------|--------------------|------------------------------|-----------------|----------------|---|
| PROPELLER        | M2R00029           | HC-M2YR-1BF/F7666A/SM8       | 1               | A/C            | Superseded by experimental item M2R00029x |
| PROPELLER        | M2R00029X          | HC-M2YR-1BFX/F7666AX/SM8     | 1               | A/C            |   |
| BLADE            | F7666A             | PCP:BLADE UNIT, ALUM [1,1,1] | 2               | Prop           | Superseded by experimental item F7666AX   |
| BLADE            | F7666AX            | PCP:BLADE UNIT, ALUM [1,1,1] | 2               | Prop           |   |
| SPIN MTG KIT     | A-2476-8           | SPINNER - MTG KIT            | 1               | Prop           |   |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20       | 6               | Prop           |   |
| OVERHAUL KIT     | HC-M2YR-1BF-OH     | O/H KIT                      | 1               | Prop           | For aftermarket use only                  |

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**VIKING AIR, LTD.**

IDS No.: 1012      Rev.: 1      IC      Date: 07/16/2015

**Model:** TRIDENT TR-1  
**Trade Name:**  
**Aircraft T.C./STC:** A19EA  
**Propeller Model:** HC-H3YF-3LF  
**Propeller T.C.:** P35EA  
**Blade Model(s):** FLC9684-12  
**Prop Diameter:** 84.0" TO 83.0"

**Modifier:**  
**Engine Model:** 6-285-C4  
**Power:** 285 HP @ 2000 RPM  
**Placard/Restr:**  
**Notes:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** -11.0 +-0.5  
**Low Pitch Angle:** 19.0 +-0.2  
**Stud Protrusion** 1.450 +-0.030

**Startlock Angle:** NA  
**Feather/High Angle:** 36.0 +-0.5  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type     | Item Number    | Description                | Quantity | Qty Per | Comments                 |
|---------------|----------------|----------------------------|----------|---------|--------------------------|
| PROPELLER     | H3F00022       | HC-H3YF-3LF/FLC9684-12/SM9 | 1        | A/C     |                          |
| BLADE         | FLC9684-12     | PCP:BLADE UNIT, ALUMINUM   | 3        | Prop    |                          |
| SPINNER       | D-4247         | SPINNER ASSEMBLY           | 1        | Prop    |                          |
| GOVERNOR      | F6-30L         | IDS Item                   | 1        | A/C     |                          |
| SPIN MTG KIT  | A-2476-9       | SPINNER - MTG KIT          | 1        | Prop    |                          |
| COUNTERWEIGHT | 833-32         | PCP:COUNTERWEIGHT UNIT     | 1        | Blade   | Blade Component          |
| MTG BOLT/STUD | A-2429-4       | STUD, MOUNTING, 1/2-20     | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-H3YF-3LF-OH | O/H KIT                    | 1        | Prop    | For aftermarket use only |

**VULCANAIR**

IDS No.: 3278      Rev.: 4      IC      Date: 10/03/2019

**Model:** V1.0  
**Trade Name:**  
**Aircraft T.C./STC:** A00075CE  
**Propeller Model:** HC-C2YR-1BFP  
**Propeller T.C.:** P-920  
**Blade Model(s):** F7497\*1  
**Prop Diameter:** 74" (no reduction)

**Modifier:**  
**Engine Model:** IO-360-M1A  
**Power:** 180 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Prop Setup:**

**Ref. Radius:** 30"  
**Reverse Angle:**  
**Low Pitch Angle:** 14.0+-0.2  
**Stud Protrusion**

**Startlock Angle:**  
**Feather/High Angle:** 30.0 +-1.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type     | Item Number    | Description                    | Quantity | Qty Per | Comments                 |
|---------------|----------------|--------------------------------|----------|---------|--------------------------|
| PROPELLER     | C2R10722       | HC-C2YR-1BFP/F7497[*1]         | 1        | A/C     |                          |
| BLADE         | F7497*1        | PCP:BLADE UNIT, ALUM [6,16,11] | 2        | Prop    |                          |
| SPINNER       | 103585         | SPINNER ASSEMBLY, COMPOSITE    | 1        | Prop    |                          |
| GOVERNOR      | S-1-63         | GOVERNOR ASSEMBLY, S-1-63      | 1        | A/C     |                          |
| MTG BOLT/STUD | A-2067         | STUD, MOUNTING, 1/2-20         | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-C2YR-1BF-OH | O/H KIT                        | 1        | Prop    | For aftermarket use only |

# HARTZELL

## APPLICATION GUIDE

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VULCANAIR (PARTENAVIA)

IDS No.: 2828 Rev.: 1 IC Date: 07/07/2015

**Model:** P.64B  
**Trade Name:** Oscar 180, Oscar 200  
**Aircraft T.C./STC:** unknown  
**Propeller Model:** HC-C2YK-1BF  
**Propeller T.C.:** P-920

**Modifier:**  
**Engine Model:** O-360-A1A, IO-360-A1B  
**Power:** 180 HP @ 2700 RPM  
**Placard/Restr:** 180 HP: Avoid continuous operation between 2000 and 2250 RPM. 200 HP: Avoid continuous operation between 2000 and 2350 RPM.

**Blade Model(s):** F7666A-2  
**Prop Diameter:** 74-72

**Notes:** Oscar 200 uses the IO-360-A1B engine (200 HP)

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** 14.0 +-0.1  
**Stud Protrusion**

**Startlock Angle:**  
**Feather/High Angle:** 29.0 +-1.0  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>         | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|----------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | C2K00045           | HC-C2YK-1BF/F7666A-2       | 0               |                |                          |
| BLADE            | F7666A-2           | PCP:BLADE UNIT, ALUMINUM   | 2               | Prop           |                          |
| SPINNER          | 835-33             | SPINNER ASSEMBLY           | 1               | Prop           |                          |
| SPINNER          | 835-33P            | SPINNER ASSEMBLY           | 1               | Prop           |                          |
| GOVERNOR         | F2-7A              | GOVERNOR ASSEMBLY, F-2-( ) | 1               | Prop           |                          |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20     | 6               | Prop           |                          |
| OVERHAUL KIT     | HC-C2YK-1BF-OH     | O/H KIT                    | 1               | Prop           | For aftermarket use only |

# HARTZELL

## APPLICATION GUIDE

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### VULCANAIR (PARTENAVIA)

**Model:** P68, P68B, P68C  
**Trade Name:** OBSERVER  
**Aircraft T.C./STC:** A31EU  
**Propeller Model:** HC-C2YK-2CUF  
**Propeller T.C.:** P-920

**Blade Model(s):** FC7666A-4\*1  
 FC7666AB-4\*1  
**Prop Diameter:** 72" NO CUT OFF

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 14.2 +/-0.2  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

#### Hartzell Approved Items:

**IDS No.:** 709      **Rev.:** 3      **IC Date:** 07/07/2015

**Modifier:**  
**Engine Model:** IO-360-A1B, -A1B6  
**Power:** 200 HP @ 2700 RPM  
**Placard/Restr:** IO-360-A1B - Avoid continuous operation between 2000 and 2350 RPM. IO-360-A1B6 - None.

#### **Notes:**

**Startlock Angle:** 20.0 +/-1.5  
**Feather/High Angle:** 81.2 +/- 0.3  
**Cwt Angle:**

**Non-HPI Governor:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>            | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>                       |
|------------------|--------------------|-------------------------------|-----------------|----------------|---------------------------------------|
| PROPELLER        | C2K00480           | HC-C2YK-2CUF/FC7666A-4[*1]    | 2               | A/C            |                                       |
| PROPELLER        | C2K00485           | HC-C2YK-2CUF/FC7666AB-4[*1]   | 2               | A/C            |                                       |
| BLADE            | FC7666A-4*1        | PCP:BLADE UNIT, B-3202H-4 CWT | 2               | Prop           |                                       |
| BLADE            | FC7666AB-4*1       | PCP:BLADE UNIT, B3202H-4 CWT  | 2               | Prop           |                                       |
| SPINNER          | 836-29             | SPINNER ASSEMBLY              | 1               | Prop           |                                       |
| GOVERNOR         | F6-3A              | GOVERNOR ASSEMBLY, F-6-( )    | 2               | A/C            | Approved on the P68 and the P68B ONLY |
| COUNTERWEIGHT    | B-3202H-4          | PCP:COUNTERWEIGHT             | 1               | Blade          | Blade Component                       |
| DE-ICER          | 4H1188-4           | DE-ICE BOOT                   | 1               | Blade          | Supersedes 7931-4E1188-4              |
| DE-ICE KIT PR    | 7931-65-580        | IDS ITEM - DE-ICE KIT         | 1               | Prop           |                                       |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20        | 6               | Prop           |                                       |
| OVERHAUL KIT     | HC-C2YK-2CUF-OH    | O/H KIT                       | 1               | Prop           | For aftermarket use only              |

# HARTZELL

## APPLICATION GUIDE

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VULCANAIR (PARTENAVIA)

IDS No.: 1309 Rev.: - DM Date: 07/05/1998

Model: P68C-TC  
 Trade Name: OBSERVER  
 Aircraft T.C./STC: A31EU  
 Propeller Model: HC-C2YR-2CUF  
 Propeller T.C.: P-920  
 Blade Model(s): FC7666A\*2  
 Prop Diameter:

Modifier:  
 Engine Model: T(I)O-360-C1A6D  
 Power: 210 HP @ 2575 RPM  
 Placard/Restr:  
 Notes:

**Prop Setup:**

Ref. Radius: 30  
 Reverse Angle: NA  
 Low Pitch Angle: 15.5 +-0.1  
 Stud Protrusion

Startlock Angle: 21.0 +-1.5  
 Feather/High Angle: 81.0 +-0.5  
 Cwt Angle:

**Non-HPI Items:**

Non-HPI Spinner:

Non-HPI Governor: WOODWARD

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>            | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|-------------------------------|-----------------|----------------|-----------------|
| BLADE            | FC7666A*2          | PCP:BLADE UNIT, B-3202H-4 CWT | 2               | Prop           |                 |
| SPINNER          | 836-29             | SPINNER ASSEMBLY              | 1               | Prop           |                 |
| SPINNER          | 836-29P            | SPINNER ASSEMBLY              | 1               | Prop           |                 |
| COUNTERWEIGHT    | B-3202H-4          | PCP:COUNTERWEIGHT             | 1               | Blade          | Blade Component |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20        | 6               | Prop           |                 |

# HARTZELL

## APPLICATION GUIDE

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VULCANAIR (PARTENAVIA)

IDS No.: 2881 Rev.: 6 IC Date: 07/21/2021

**Model:** P.68, P.68B, P.68C, P.68R  
**Trade Name:** OBSERVER, OBSERVER 2  
**Aircraft T.C./STC:** EASA.A.385  
**Propeller Model:** HC-C2YK-2CUF  
**Propeller T.C.:** P-920

**Modifier:**  
**Engine Model:** IO-360-A1B, -A1B6  
**Power:** 200 HP @ 2700 RPM  
**Placard/Restr:** IO-360-A1B - Avoid continuous operation between 2000 and 2350 RPM. IO-360-A1B6 - None.

**Blade Model(s):** FC7666A-4\*1  
 FC7666A-4\*2  
 FC7666AB-4\*1  
**Prop Diameter:** 72" NO CUT OFF

**Notes:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 14.2 +/-0.2  
**Stud Protrusion**

**Startlock Angle:** 20.0 +/-1.5  
**Feather/High Angle:** 81.2 +/- 0.3  
**Cwt Angle:**

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>            | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>   |
|------------------|--------------------|-------------------------------|-----------------|----------------|---|
| PROPELLER        | C2K00480           | HC-C2YK-2CUF/FC7666A-4[*1]    | 2               | A/C            | Propeller having gray blade paint                       |
| PROPELLER        | C2K00482           | HC-C2YK-2CUF/FC7666A-4*2      | 2               | A/C            | Propeller having silver metallic blade paint            |
| PROPELLER        | C2K00485           | HC-C2YK-2CUF/FC7666AB-4[*1]   | 2               | A/C            | Propeller having blades painted gray, with de-ice boots |
| BLADE            | FC7666A-4*1        | PCP:BLADE UNIT, B-3202H-4 CWT | 2               | Prop           |   |
| BLADE            | FC7666A-4*2        | PCP:BLADE UNIT, B-3202H-4 CWT | 2               | Prop           | Silver Metallic Blades                                  |
| BLADE            | FC7666AB-4*1       | PCP:BLADE UNIT, B3202H-4 CWT  | 2               | Prop           |   |
| SPINNER          | 836-29             | SPINNER ASSEMBLY              | 1               | Prop           |   |
| SPINNER          | 836-29P            | SPINNER ASSEMBLY              | 1               | Prop           |   |
| GOVERNOR         | S-2-2K             | GOVERNOR ASSEMBLY, S-2-()K    | 1               | A/C            | Left Aspirated Engine                                   |
| GOVERNOR         | S-2-3K             | GOVERNOR ASSEMBLY, S-2-()K    | 1               | A/C            | Right Aspirated Engine                                  |
| COUNTERWEIGHT    | B-3202H-4          | PCP:COUNTERWEIGHT             | 1               | Blade          | Blade Component   |
| DE-ICER          | 4H1188-4           | DE-ICE BOOT                   | 1               | Blade          | Supersedes 7931-4E1188-4                                |
| DE-ICE KIT PR    | 7931-65-580        | IDS ITEM - DE-ICE KIT         | 1               | Prop           |   |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20        | 6               | Prop           |   |
| OVERHAUL KIT     | HC-C2YK-2CUF-OH    | O/H KIT                       | 1               | Prop           | For aftermarket use only                                |



# HARTZELL

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### VULCANAIR (PARTENAVIA)

**Model:** P68C-TC, P68TC  
**Trade Name:** OBSERVER  
**Aircraft T.C./STC:** A31EU  
**Propeller Model:** HC-C2YK-2CUF  
**Propeller T.C.:** P-920

**Blade Model(s):** FC7666A  
**Prop Diameter:** 76" TO 75"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 15.5 +/-0.2  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 710      **Rev.:** 1      **IC Date:** 07/07/2015

**Modifier:**  
**Engine Model:** TIO-360-C1A6D, TO-360-C1A6D

**Power:** 210 HP @ 2575 RPM

**Placard/Restr:** Do not operate above 36 inches manifold pressure at engine speeds below 2400 RPM.

#### **Notes:**

**Startlock Angle:** 22.5 +/-2.5

**Feather/High Angle:** 81.0 +/-0.5

**Cwt Angle:**

**Non-HPI Governor:** WOODWARD

#### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>            | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|-------------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | C2K00470           | HC-C2YK-2CUF/FC7666A          | 2               | A/C            |                          |
| BLADE            | FC7666A            | PCP:BLADE UNIT, B-3202H-9 CWT | 2               | Prop           |                          |
| SPINNER          | 836-29             | SPINNER ASSEMBLY              | 1               | Prop           |                          |
| COUNTERWEIGHT    | B-3202H-9          | PCP:COUNTERWEIGHT             | 1               | Blade          | Blade Component          |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20        | 6               | Prop           |                          |
| OVERHAUL KIT     | HC-C2YK-2CUF-OH    | O/H KIT                       | 1               | Prop           | For aftermarket use only |

# HARTZELL

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### VULCANAIR (PARTENAVIA)

**Model:** AP68TP-300, AP68TP-600  
**Trade Name:** SPARTACUS (-300), VIATOR (-600)  
**Aircraft T.C./STC:** EASA.A.385  
**Propeller Model:** HC-B3TF-7A  
**Propeller T.C.:** P15EA  
**Blade Model(s):** T10173F-21R  
 T10173FN-21R  
**Prop Diameter:** 80" TO 78"

**IDS No.:** 711 **Rev.:** 4 **IC** **Date:** 09/09/2020

**Modifier:**  
**Engine Model:** 250-B17C

**Power:** 328 HP @ 2030 RPM

**Placard/Restr:**

**Notes:** Refer to Vulcanair documentation for instructions on installation and maintenance of the de-ice system. Spinner requires modification for de-ice per Vulcanair Instruction.

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** -11.0 +-0.5  
**Low Pitch Angle:**  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 85.0 +-1.0  
**Cwt Angle:** Positive

#### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:** WOODWARD

#### Hartzell Approved Items:

| <u>Item Type</u>   | <u>Item Number</u> | <u>Description</u>             | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|--------------------|--------------------|--------------------------------|-----------------|----------------|--------------------------|
| PROPELLER          | B3F10073           | HC-B3TF-7A/T10173FN-21R        | 2               | A/C            |                          |
| PROPELLER          | B3F10073S          | HC-B3TF-7A/T10173FN-21R/835-39 | 2               | A/C            |                          |
| BLADE              | T10173F-21R        | BLADE                          | 3               | Prop           |                          |
| BLADE              | T10173FN-21R       | PCP:BLADE UNIT, ALUMINUM       | 3               | Prop           |                          |
| SPINNER            | 835-39             | SPINNER ASSEMBLY               | 2               | A/C            |                          |
| SPINNER            | 835-39P            | SPINNER ASSEMBLY               | 2               | A/C            |                          |
| SPIN MTG KIT       | A-3491             | SPINNER - MTG KIT              | 1               | Prop           |                          |
| COUNTERWEIGHT SLUG | B-3386-14H         | BOLT,3/8-24,HEX HEAD           | 2               | Blade          |                          |
| COUNTERWEIGHT SLUG | B-3663-3           | PCP:SLUG, COUNTERWEIGHT        | 1               | Blade          |                          |
| COUNTERWEIGHT SLUG | B-3834-0632        | WASHER                         | 2               | Blade          |                          |
| MTG BOLT/STUD      | A-1328-1           | BOLT,MOUNTING,1/2-20,12 POINT  | 6               | Prop           |                          |
| MISC ACCES         | C-3630-2           | PCP:BETA VALVE - ASSEMBLY      | 1               | Prop           |                          |
| OVERHAUL KIT       | HC-B3TF-7A-OH      | O/H KIT                        | 1               | Prop           | For aftermarket use only |

# HARTZELL

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### WALLAROO

**Model:** WALLAROO 605  
**Trade Name:**  
**Aircraft T.C./STC:** Unknown  
**Propeller Model:** HC-B3TN-3D  
**Propeller T.C.:** P15EA  
**Blade Model(s):** T10282  
                                   T10282N  
**Prop Diameter:** 102.0"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** -15.0 +-0.5  
**Low Pitch Angle:** 21.0 +-0.1  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:** NONE

**IDS No.:** 1039      **Rev.:** 2      **D**      **Date:** 06/04/2013

**Modifier:**  
**Engine Model:** PT6A-27  
**Power:** 620 HP @ 2200 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 87.0 +-1.0  
**Cwt Angle:** -1.0 TO POS.

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type                      | Item Number | Description                       | Quantity | Qty Per | Comments  |
|--------------------------------|-------------|-----------------------------------|----------|---------|-----------|
| BLADE                          | T10282      | BLADE                             | 3        | Prop    |           |
| BLADE                          | T10282N     | PCP:BLADE UNIT, ALUMINUM          | 3        | Prop    |           |
| COUNTERWEIGHT SLUG A-3039      |             | SLUG, COUNTERWEIGHT               | 1        | Blade   |           |
| COUNTERWEIGHT SLUG A-890-6     |             | PCP:SLUG, COUNTERWEIGHT           | 1        | Blade   | Primary   |
| COUNTERWEIGHT SLUG A-890-8     |             | PCP:SLUG, COUNTERWEIGHT           | 1        | Blade   | Alternate |
| COUNTERWEIGHT SLUG A-890-9     |             | PCP:SLUG, COUNTERWEIGHT           | 1        | Blade   | Alternate |
| COUNTERWEIGHT SLUG B-3384-21H  |             | BOLT, 1/4-28, HEX HEAD            | 2        | Blade   |           |
| COUNTERWEIGHT SLUG B-3851-0432 |             | WASHER                            | 2        | Blade   | Optional  |
| COUNTERWEIGHT SLUG B-3851-0463 |             | WASHER                            | 2        | Blade   | Optional  |
| MTG BOLT/STUD                  | B-3339      | BOLT, MOUNTING, 9/16-18, 12 POINT | 8        | Prop    |           |

### WASSMER

**Model:** SUPER 421  
**Trade Name:**  
**Aircraft T.C./STC:** Unknown  
**Propeller Model:** HC-C2YK-1BF  
**Propeller T.C.:** P-920  
**Blade Model(s):** F8477-4  
**Prop Diameter:** 80"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.0 +-0.1  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**IDS No.:** 1040      **Rev.:** -      **DM**      **Date:** 10/01/1992

**Modifier:**  
**Engine Model:** IO-540-C4B5  
**Power:** 250 HP @ 2575 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 32.0 +-2.0  
**Cwt Angle:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type     | Item Number | Description                  | Quantity | Qty Per | Comments |
|---------------|-------------|------------------------------|----------|---------|----------|
| BLADE         | F8477-4     | PCP:BLADE UNIT, ALUM [1,1,1] | 2        | Prop    |          |
| SPINNER       | 835-33      | SPINNER ASSEMBLY             | 1        | Prop    |          |
| MTG BOLT/STUD | A-2067      | STUD, MOUNTING, 1/2-20       | 6        | Prop    |          |

# HARTZELL

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WASSMER

**Model:** CE.43  
**Trade Name:** CERVA CE.43 GUEPARD  
**Aircraft T.C./STC:** Unknown  
**Propeller Model:** HC-C2YK-1BF  
**Propeller T.C.:** P-920  
**Blade Model(s):** F8477-7  
**Prop Diameter:** 77" TO 76"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 14.5 +-0.1  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 1041      **Rev.:** 1      **IC Date:** 07/07/2015

**Modifier:**  
**Engine Model:** IO-540  
**Power:** 250 HP @ 2575 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 29.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>       | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|--------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | C2K00175           | HC-C2YK-1BF/F8477-7      | 1               | A/C            |                          |
| BLADE            | F8477-7            | PCP:BLADE UNIT, ALUMINUM | 2               | Prop           |                          |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20   | 6               | Prop           |                          |
| OVERHAUL KIT     | HC-C2YK-1BF-OH     | O/H KIT                  | 1               | Prop           | For aftermarket use only |

WASSMER

**Model:** 52  
**Trade Name:** EUROPA  
**Aircraft T.C./STC:** 126 (FRANCE)  
**Propeller Model:** HC-C2YL-1BF  
**Propeller T.C.:** P-920  
**Blade Model(s):** F7663A-4  
**Prop Diameter:** 72

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** 12.0 +-0.1  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 2487      **Rev.:** 1      **IC Date:** 07/07/2015

**Modifier:**  
**Engine Model:** O-320-D  
**Power:** 160 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:**

**Startlock Angle:**  
**Feather/High Angle:** 27.0 +-2.0  
**Cwt Angle:**

**Non-HPI Governor:** WOODWARD B210681

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>               | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|----------------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | C2L00044           | HC-C2YL-1BF/F7663A-4             | 1               | A/C            |                          |
| BLADE            | F7663A-4           | PCP:BLADE UNIT, ALUMINUM         | 2               | Prop           |                          |
| MTG BOLT/STUD    | A-2247-1           | STUD, MOUNTING, 7/16-20, DRILLED | 6               | Prop           |                          |
| OVERHAUL KIT     | HC-C2YL-1BF-OH     | O/H KIT                          | 1               | Prop           | For aftermarket use only |

# HARTZELL

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### WASSMER (CERVA)

**Model:** CE43  
**Trade Name:** CHEETAH  
**Aircraft T.C./STC:** 137 (France)  
**Propeller Model:** HC-C2YK-1BF  
**Propeller T.C.:** P-920

**Blade Model(s):** F8477-4  
**Prop Diameter:** 80-77

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** 13.0 +-0.2  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 2715      **Rev.:** 1      **IC Date:** 07/07/2015

**Modifier:**

**Engine Model:** IO-540-C4B5

**Power:** 250 HP @ 2575 RPM

**Placard/Restr:** Avoid continuous operation between 2250 and 2550 RPM during descent with the manifold pressure below 380 mm (15 inches) Hg. (Source: TCDS no. 137)

**Notes:**

**Startlock Angle:**

**Feather/High Angle:** 30.5 +-0.5

**Cwt Angle:**

**Non-HPI Governor:** Woodward 210460

#### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>           | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|------------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | C2K00176           | HC-C2YK-1BF/F8477-4          | 1               | A/C            |                          |
| BLADE            | F8477-4            | PCP:BLADE UNIT, ALUM [1,1,1] | 2               | Prop           |                          |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20       | 6               | Prop           |                          |
| OVERHAUL KIT     | HC-C2YK-1BF-OH     | O/H KIT                      | 1               | Prop           | For aftermarket use only |

### WDL FLUGDIENST

**Model:** AIRSHIP  
**Trade Name:**  
**Aircraft T.C./STC:** Unknown  
**Propeller Model:** BHC-92WF-3G  
**Propeller T.C.:** P16EA  
**Blade Model(s):** W8447-6R  
W8447N-6R

**Prop Diameter:**

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** -13.0 +-0.5  
**Low Pitch Angle:** 8.75 +-0.5  
**Stud Protrusion** \*SEE NOTES

#### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 1042      **Rev.:** -      **DM Date:** 07/26/2004

**Modifier:**

**Engine Model:** IO-360-CB

**Power:** 210 HP @ 2800 RPM

**Placard/Restr:**

**Notes:** \*Hand tighten until stud bottoms on spinner support, then back out 1/4 turn.

**Startlock Angle:** NA

**Feather/High Angle:** 21.0 +-0.5

**Cwt Angle:**

**Non-HPI Governor:**

#### Hartzell Approved Items:

| <u>Item Type</u>             | <u>Item Number</u> | <u>Description</u>         | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>       |
|------------------------------|--------------------|----------------------------|-----------------|----------------|-----------------------|
| BLADE                        | W8447-6R           | BLADE UNIT, ALUMINUM       | 2               | Prop           | REPLACED BY W8447N-6R |
| BLADE                        | W8447N-6R          | PCP:BLADE UNIT, ALUMINUM   | 2               | Prop           |                       |
| GOVERNOR                     | F6-19              | GOVERNOR ASSEMBLY, F-6-( ) | 1               | Prop           |                       |
| COUNTERWEIGHT SLUG A-619-6   |                    | SLUG, COUNTERWEIGHT        | 1               | Blade          |                       |
| COUNTERWEIGHT SLUG A-890-8   |                    | PCP:SLUG, COUNTERWEIGHT    | 1               | Blade          |                       |
| COUNTERWEIGHT SLUG B-3384-21 |                    | IDS Item                   | 2               | Blade          |                       |
| MTG BOLT/STUD                | A-2986             | STUD, MOUNTING, 1/2-20     | 6               | Prop           |                       |

# HARTZELL

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### WEATHERLY

**Model:** 201B, C  
**Trade Name:**  
**Aircraft T.C./STC:** STC-SA73RM  
**Propeller Model:** HC-B3R30-1  
**Propeller T.C.:** P28EA  
**Blade Model(s):** R10152-5.5  
R10152N-5.5  
R10160-6  
R10160N-6  
**Prop Diameter:** 95, 95.5"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 17.0 +/-0.1  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 1044      **Rev.:** 1      **D Date:** 01/10/2011

**Modifier:** RON'S AIR SERVICE  
**Engine Model:** R-985  
**Power:** 450 HP @ 2300 RPM  
**Placard/Restr:**

**Notes:** STC also specifies Z, P and W shanks, which are not valid models. Angles are for R10152-5.5 blade.

**Startlock Angle:**

**Feather/High Angle:**

**Cwt Angle:** Positive

**Non-HPI Governor:**

#### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>        | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>         |
|------------------|--------------------|---------------------------|-----------------|----------------|-------------------------|
| BLADE            | R10152-5.5         | PCP:BLADE UNIT, ALUMINUM  | 3               | Prop           | REPLACED BY R10152N-5.5 |
| BLADE            | R10152N-5.5        | PCP:BLADE UNIT, ALUMINUM  | 3               | Prop           |                         |
| BLADE            | R10160-6           | PCP:BLADE UNIT, ALUMINUM  | 3               | Prop           | REPLACED BY R10160N-6   |
| BLADE            | R10160N-6          | PCP:BLADE UNIT, ALUMINUM  | 3               | Prop           |                         |
| SPINNER          | 836-32SPR          | SPINNER ASSEMBLY          | 1               | Prop           |                         |
| MTG BOLT/STUD    | B-1894             | PCP: NUT,SHAFT, 30 SPLINE | 1               | Prop           |                         |

### WEATHERLY

**Model:** 201C  
**Trade Name:**  
**Aircraft T.C./STC:** A10WE  
**Propeller Model:** HC-B3R30-4(B)  
**Propeller T.C.:** P28EA  
**Blade Model(s):** R10152-5.5  
R10152N-5.5  
**Prop Diameter:** 95.5" NO CUT OFF

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 17.0 +/-0.1  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 1169      **Rev.:** 3      **IC Date:** 12/17/2019

**Modifier:**  
**Engine Model:** R985-AN1, AN-3, AN-1-14B  
**Power:** 450 HP @ 2300 RPM  
**Placard/Restr:**

**Notes:**

**Startlock Angle:** NA

**Feather/High Angle:** 25.0 +/-1.0

**Cwt Angle:** Positive

**Non-HPI Governor:**

#### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>         | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|----------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | B3300076           | HC-B3R30-4B/R10152N-5.5    | 1               | A/C            |                          |
| BLADE            | R10152-5.5         | PCP:BLADE UNIT, ALUMINUM   | 3               | Prop           | REPLACED BY R10152N-5.5  |
| BLADE            | R10152N-5.5        | PCP:BLADE UNIT, ALUMINUM   | 3               | Prop           |                          |
| SPINNER          | 836-32PR           | SPINNER ASSEMBLY           | 1               | Prop           |                          |
| GOVERNOR         | C4                 | GOVERNOR ASSEMBLY, C-4-( ) | 1               | A/C            |                          |
| MTG BOLT/STUD    | B-1894             | PCP: NUT,SHAFT, 30 SPLINE  | 1               | Prop           |                          |
| OVERHAUL KIT     | HC-B3R30-4B-OH     | O/H KIT                    | 1               | Prop           | For aftermarket use only |

# HARTZELL

WEATHERLY

**Model:** 201C  
**Trade Name:**  
**Aircraft T.C./STC:** A10WE  
**Propeller Model:** HC-B3R30-4  
**Propeller T.C.:** P28EA  
  
**Blade Model(s):** R10160-6  
R10160N-6  
**Prop Diameter:** 96.0" TO 95.0"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 17.0 +-0.1  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>            | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|-------------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | B3300060S          | HC-B3R30-4/R10160N-6/836-32PR | 1               | A/C            |                          |
| BLADE            | R10160-6           | PCP:BLADE UNIT, ALUMINUM      | 3               | Prop           | REPLACED BY R10160N-6    |
| BLADE            | R10160N-6          | PCP:BLADE UNIT, ALUMINUM      | 3               | Prop           |                          |
| SPINNER          | 836-32PR           | SPINNER ASSEMBLY              | 1               | Prop           |                          |
| GOVERNOR         | C4                 | GOVERNOR ASSEMBLY, C-4- ( )   | 1               | A/C            |                          |
| MTG BOLT/STUD    | B-1894             | PCP: NUT,SHAFT, 30 SPLINE     | 1               | Prop           |                          |
| OVERHAUL KIT     | HC-B3R30-4-OH      | O/H KIT                       | 1               | Prop           | For aftermarket use only |

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**IDS No.:** 1365      **Rev.:** 3      **IC**      **Date:** 12/17/2019

**Modifier:**

**Engine Model:** R985-AN1, AN-3, AN-1-14B

**Power:** 450 HP @ 2300 RPM

**Placard/Restr:** Static RPM at maximum throttle setting not over 2300 RPM; not under 2200 RPM.

**Notes:**

**Startlock Angle:** NA

**Feather/High Angle:** 25.0 +-1.0

**Cwt Angle:** Positive

**Non-HPI Governor:**

# HARTZELL

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### WEATHERLY

**Model:** 620A, 620B  
**Trade Name:**  
**Aircraft T.C./STC:** A26WE  
**Propeller Model:** HC-B3R30-4B  
**Propeller T.C.:** P28EA  
  
**Blade Model(s):** R10152-5.5  
 R10152N-5.5  
**Prop Diameter:** 95.5" NO CUT OFF

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 16.0 +-0.1  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

#### Hartzell Approved Items:

**IDS No.:** 1170      **Rev.:** 3      **IC Date:** 12/17/2019

**Modifier:**  
**Engine Model:** R985-AN-1, AN-3, AN-14B  
**Power:** 450 HP @ 2300 RPM  
**Placard/Restr:** Static RPM at maximum throttle setting not over 2300 RPM not under 2200 RPM.

#### **Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 28.0 +-1.0  
**Cwt Angle:** Positive

**Non-HPI Governor:**

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>          | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>          |
|------------------|--------------------|-----------------------------|-----------------|----------------|--------------------------|
| PROPELLER        | B3300079           | HC-B3R30-4B/R10152N-5.5     | 1               | A/C            |                          |
| BLADE            | R10152-5.5         | PCP:BLADE UNIT, ALUMINUM    | 3               | Prop           | REPLACED BY R10152N-5.5  |
| BLADE            | R10152N-5.5        | PCP:BLADE UNIT, ALUMINUM    | 3               | Prop           |                          |
| SPINNER          | 836-32PR           | SPINNER ASSEMBLY            | 1               | Prop           |                          |
| SPINNER          | 836-32PRB          | IDS Item                    | 1               | Prop           |                          |
| SPINNER          | 836-32SPR          | SPINNER ASSEMBLY            | 1               | Prop           |                          |
| SPINNER          | 836-32SPRB         | SPINNER ASSEMBLY            | 1               | Prop           |                          |
| GOVERNOR         | C4                 | GOVERNOR ASSEMBLY, C-4- ( ) | 1               | A/C            |                          |
| COUNTERWEIGHT    | B-3309-4           | IDS Item                    | 1               | Blade          |                          |
| COUNTERWEIGHT    | B-3309-4B          | IDS Item                    | 1               | Blade          |                          |
| MTG BOLT/STUD    | B-1894             | PCP: NUT,SHAFT, 30 SPLINE   | 1               | Prop           |                          |
| OVERHAUL KIT     | HC-B3R30-4B-OH     | O/H KIT                     | 1               | Prop           | For aftermarket use only |



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**WEATHERLY**

IDS No.: 1046      Rev.: 2      D      Date: 06/04/2013

**Model:** 620TP  
**Trade Name:**  
**Aircraft T.C./STC:** A26WE  
**Propeller Model:** HC-B3TN-3C  
**Propeller T.C.:** P15EA  
**Blade Model(s):** T10282-2  
                           T10282-6  
                           T10282N-2  
                           T10282N-6  
**Prop Diameter:** 96.0" TO 92.0"

**Modifier:**  
**Engine Model:** PT6A-11AG  
**Power:** 500 HP @ 2200 RPM  
**Placard/Restr:**  
**Notes:**

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** -8.0 +-0.5  
**Low Pitch Angle:** 16.0 +-0.5  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 90.0 +-0.5  
**Cwt Angle:** Positive

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u>               | <u>Item Number</u> | <u>Description</u>                | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|--------------------------------|--------------------|-----------------------------------|-----------------|----------------|-----------------|
| BLADE                          | T10282-2           | IDS*ITEM, BLADE                   | 3               | Prop           |                 |
| BLADE                          | T10282-6           | IDS*ITEM, BLADE                   | 3               | Prop           |                 |
| BLADE                          | T10282N-2          | IDS ITEM, BLADE                   | 3               | Prop           |                 |
| BLADE                          | T10282N-6          | IDS ITEM, BLADE                   | 3               | Prop           |                 |
| SPINNER                        | D-3434-6           | SPINNER ASSEMBLY                  | 1               | Prop           |                 |
| COUNTERWEIGHT SLUG A-3039      |                    | SLUG, COUNTERWEIGHT               | 1               | Blade          |                 |
| COUNTERWEIGHT SLUG A-890-6     |                    | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          | Primary         |
| COUNTERWEIGHT SLUG A-890-8     |                    | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          | Alternate       |
| COUNTERWEIGHT SLUG A-890-9     |                    | PCP:SLUG, COUNTERWEIGHT           | 1               | Blade          | Alternate       |
| COUNTERWEIGHT SLUG B-3384-21H  |                    | BOLT, 1/4-28, HEX HEAD            | 2               | Blade          |                 |
| COUNTERWEIGHT SLUG B-3851-0432 |                    | WASHER                            | 2               | Blade          | Optional        |
| COUNTERWEIGHT SLUG B-3851-0463 |                    | WASHER                            | 2               | Blade          | Optional        |
| MTG BOLT/STUD                  | B-3339             | BOLT, MOUNTING, 9/16-18, 12 POINT | 8               | Prop           |                 |

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WHEELER TECHNOLOGY INC.

Model: EXPRESS

Trade Name:

Aircraft T.C./STC: Experimental

Propeller Model: HC-C2YK-1BF

Propeller T.C.: P-920

Blade Model(s): F7666A  
F7666A-2  
F7666A-4

Prop Diameter: 72" NO CUT OFF

### Prop Setup:

Ref. Radius: 30

Reverse Angle: NA

Low Pitch Angle: 12.1 +/-0.2

Stud Protrusion

### Non-HPI Items:

Non-HPI Spinner:

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>           | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|------------------------------|-----------------|----------------|-----------------|
| BLADE            | F7666A             | PCP:BLADE UNIT, ALUM [1,1,1] | 2               | Prop           |                 |
| BLADE            | F7666A-2           | PCP:BLADE UNIT, ALUMINUM     | 2               | Prop           |                 |
| BLADE            | F7666A-4           | PCP:BLADE UNIT, ALUMINUM     | 2               | Prop           |                 |
| SPIN MTG KIT     | A-2476-4           | SPINNER - MTG KIT            | 1               | Prop           |                 |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20       | 6               | Prop           |                 |

IDS No.: 1364

Rev.: -

DM Date: 06/05/1994

Modifier: EXPERIMENTAL AIRCRAFT  
TECHNOLOGY

Engine Model: O-360

Power: 180 HP @ 2700 RPM

Placard/Restr: Avoid continuous operation between 2000 to 2250 RPM.

Notes:

Startlock Angle: NA

Feather/High Angle: 37.5 +/-1.0

Cwt Angle:

Non-HPI Governor:

WHEELER TECHNOLOGY INC.

Model: EXPRESS

Trade Name:

Aircraft T.C./STC: Experimental

Propeller Model: HC-F2YR-1F

Propeller T.C.:

Blade Model(s): F8465-8R

Prop Diameter: 76"

### Prop Setup:

Ref. Radius: 30

Reverse Angle: NA

Low Pitch Angle: 14.5 +/-0.1

Stud Protrusion

### Non-HPI Items:

Non-HPI Spinner:

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>       | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|--------------------------|-----------------|----------------|-----------------|
| BLADE            | F8465-8R           | PCP:BLADE UNIT, ALUMINUM | 2               | Prop           |                 |
| SPINNER          | A-2298-2P          | SPINNER ASSEMBLY         | 1               | Prop           |                 |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20   | 6               | Prop           |                 |

IDS No.: 1047

Rev.: -

DM Date: 03/07/1993

Modifier:

Engine Model: IO-540-C4B5

Power: 250 HP @ 2575 RPM

Placard/Restr:

Notes:

Startlock Angle: NA

Feather/High Angle: 32.0 +/-1.0

Cwt Angle:

Non-HPI Governor:

# HARTZELL

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### WHEELER TECHNOLOGY INC.

**Model:** EXPRESS  
**Trade Name:**  
**Aircraft T.C./STC:** Experimental  
**Propeller Model:** HC-F3YR-1RF  
**Propeller T.C.:**  
**Blade Model(s):** F7382  
**Prop Diameter:** 75"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 11.5 +-0.1  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 1187      **Rev.:** -      **DM Date:** 02/02/1995

**Modifier:**

**Engine Model:** IO-540-D4A5

**Power:** 260 HP @ 2700 RPM

**Placard/Restr:**

**Notes:** Engineering Project No. 555

**Startlock Angle:** NA

**Feather/High Angle:** 33.0 +-1.0

**Cwt Angle:**

**Non-HPI Governor:**

#### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>       | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|--------------------------|-----------------|----------------|-----------------|
| PROPELLER        | F3R00015           | HC-F3YR-1RF/F7382/SM7    | 1               | A/C            |                 |
| BLADE            | F7382              | PCP:BLADE UNIT, ALUMINUM | 3               | Prop           |                 |
| SPINNER          | C-3575-1P          | SPINNER ASSEMBLY         | 1               | Prop           |                 |
| SPIN MTG KIT     | A-2476-7           | SPINNER - MTG KIT        | 1               | Prop           |                 |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20   | 6               | Prop           |                 |

### WING AIRCRAFT

**Model:** D-1  
**Trade Name:** DERRINGER  
**Aircraft T.C./STC:** A9WE  
**Propeller Model:** HC-C2YL-2RB  
**Propeller T.C.:**  
**Blade Model(s):** F8459-18  
**Prop Diameter:** 66" TO 64"

#### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.5 +-0.2  
**Stud Protrusion**

#### Non-HPI Items:

**Non-HPI Spinner:**

**IDS No.:** 1051      **Rev.:** -      **DM Date:** 10/01/1992

**Modifier:**

**Engine Model:** IO-320-B1C, C1A

**Power:** 160 HP @ 2700 RPM

**Placard/Restr:**

**Notes:**

**Startlock Angle:** 19.0 +-1.5

**Feather/High Angle:** 78.0 +-1.0

**Cwt Angle:**

**Non-HPI Governor:**

#### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>               | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|----------------------------------|-----------------|----------------|-----------------|
| BLADE            | F8459-18           | PCP:BLADE UNIT, ALUMINUM         | 2               | Prop           |                 |
| SPINNER          | 835-21P            | SPINNER ASSEMBLY                 | 1               | Prop           |                 |
| GOVERNOR         | F-6-53BZ           | GOVERNOR ASSEMBLY, F-6-( )       | 1               | Prop           |                 |
| MTG BOLT/STUD    | A-2247-1           | STUD, MOUNTING, 7/16-20, DRILLED | 6               | Prop           |                 |

# HARTZELL

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### WOLF AIRCRAFT

**Model:** WOLFPITTS PRO  
**Trade Name:** WOLFPITTS PRO  
**Aircraft T.C./STC:** EXPERIMENTAL  
**Propeller Model:** HC-C3YR-4AX  
**Propeller T.C.:**  
**Blade Model(s):** C7690EX  
**Prop Diameter:** 78"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:**  
**Low Pitch Angle:** 10.0 +-0.1  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**IDS No.:** 3095 **Rev.:** - **DM Date:** 08/12/2011

**Modifier:**  
**Engine Model:** AEIO-580-S  
**Power:** 320 HP @ 2700 RPM  
**Placard/Restr:**

**Notes:** Remove TC, PC and assembly S/N from hub. Remove PC from blades.

**Startlock Angle:**  
**Feather/High Angle:** 35.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type                   | Item Number | Description                  | Quantity | Qty Per | Comments |
|-----------------------------|-------------|------------------------------|----------|---------|----------|
| PROPELLER                   | C3R00276X   | HC-C3YR-4AX/C7690EX/SM34     | 1        | A/C     |          |
| BLADE                       | C7690EX     | PCP:BLADE ASSY, COMP [3,1,1] | 3        | Prop    |          |
| SPINNER                     | D-7409      | SPINNER ASSEMBLY, COMPOSITE  | 1        | Prop    |          |
| GOVERNOR                    | F6-59       | GOVERNOR ASSEMBLY, F-6-()    | 1        | A/C     |          |
| SPIN MTG KIT                | A-2476-34   | SPINNER - MTG KIT            | 1        | Prop    |          |
| COUNTERWEIGHT               | D-7248      | PCP:CLAMP, COUNTERWEIGHT     | 1        | Blade   |          |
| COUNTERWEIGHT SLUG A-1744   |             | BOLT,3/8-24,HEX HEAD         | 2        | Blade   |          |
| COUNTERWEIGHT SLUG A-2043-1 |             | NUT,3/8-24,HEX,SELF-LOCKING  | 2        | Blade   |          |
| COUNTERWEIGHT SLUG C-7249   |             | SLUG, COUNTERWEIGHT          | 2        | Blade   |          |
| MTG BOLT/STUD               | A-2067      | STUD, MOUNTING, 1/2-20       | 6        | Prop    |          |

### XIAN

**Model:** LE500  
**Trade Name:**  
**Aircraft T.C./STC:** Unknown  
**Propeller Model:** HC-C2YK-1BF  
**Propeller T.C.:** P-920  
**Blade Model(s):** F8477-4  
**Prop Diameter:** 80" TO 78"

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 14.0 +-0.2  
**Stud Protrusion**

**Non-HPI Items:**

**Non-HPI Spinner:**

**IDS No.:** 1867 **Rev.:** 2 **IC Date:** 07/14/2020

**Modifier:**  
**Engine Model:** IO-540-V4A5  
**Power:** 260 HP @ 2700 RPM  
**Placard/Restr:**

**Notes:**  
**Startlock Angle:** NA  
**Feather/High Angle:** 31.0 +-1.0  
**Cwt Angle:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| Item Type     | Item Number    | Description                  | Quantity | Qty Per | Comments                 |
|---------------|----------------|------------------------------|----------|---------|--------------------------|
| PROPELLER     | C2K00173       | HC-C2YK-1BF/F8477-4/SM19     | 1        | A/C     |                          |
| BLADE         | F8477-4        | PCP:BLADE UNIT, ALUM [1,1,1] | 2        | Prop    |                          |
| SPINNER       | A-2295         | SPINNER ASSEMBLY             | 1        | Prop    |                          |
| GOVERNOR      | V-5-9          | GOVERNOR ASSEMBLY, V-5-()    | 1        | A/C     |                          |
| SPIN MTG KIT  | A-2476-19      | SPINNER - MTG KIT            | 1        | Prop    |                          |
| MTG BOLT/STUD | A-2067         | STUD, MOUNTING, 1/2-20       | 6        | Prop    |                          |
| OVERHAUL KIT  | HC-C2YK-1BF-OH | O/H KIT                      | 1        | Prop    | For aftermarket use only |

# HARTZELL

## APPLICATION GUIDE 159

ZIVKO AERONAUTICS

**Model:** EDGE 540  
**Trade Name:**  
**Aircraft T.C./STC:** Experimental  
**Propeller Model:** HC-C3YR-1A  
**Propeller T.C.:** P25EA  
**Blade Model(s):** 7690E  
**Prop Diameter:** 78.0" NO CUT OFF

**IDS No.:** 1367      **Rev.:** 1      **IC Date:** 07/16/2015

**Modifier:**  
**Engine Model:** AEIO-540  
**Power:** 300 HP @ 2700 RPM  
**Placard/Restr:**

**Notes:** Governor requires A-3144-2 Governor Drive Extension and C-6059 Valve Assembly with B-1104 Gasket.

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 11.6 +-0.1  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 32.0 +-1.0  
**Cwt Angle:**

### Non-HPI Items:

**Non-HPI Spinner:**

**Non-HPI Governor:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>           | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u>            |
|------------------|--------------------|------------------------------|-----------------|----------------|----------------------------|
| PROPELLER        | C3R00015           | HC-C3YR-1A/7690E/SM6         | 1               | A/C            |                            |
| PROPELLER        | C3R00015KD         | HC-C3YR-1A/7690E/SM6         | 1               | A/C            |                            |
| BLADE            | 7690E              | PCP:BLADE ASSY, COMP [3,1,1] | 3               | Prop           |                            |
| SPINNER          | D-6936-P           | SPINNER ASSEMBLY             | 1               | Prop           | REQ'D IF USING 7690E BLADE |
| GOVERNOR         | E2-5               | GOVERNOR ASSEMBLY, E-2-( )   | 1               | A/C            |                            |
| SPIN MTG KIT     | A-2476-6           | SPINNER - MTG KIT            | 1               | Prop           |                            |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20       | 6               | Prop           |                            |
| OVERHAUL KIT     | HC-C3YR-1A-OH      | O/H KIT                      | 1               | Prop           | For aftermarket use only   |

# HARTZELL

## APPLICATION GUIDE

159

ZIVKO AERONAUTICS INC.

IDS No.: 2493      Rev.: 2      IC      Date: 11/06/2020

**Model:** EDGE 540  
**Trade Name:**  
**Aircraft T.C./STC:** Experimental  
**Propeller Model:** HC-C3YR-4AX  
**Propeller T.C.:**  
**Blade Model(s):** C7690EX  
                           C7690EX\*1  
**Prop Diameter:** 78" NO CUT OFF

**Modifier:**  
**Engine Model:** AEIO-540  
**Power:** 300 HP @ 2700 RPM  
**Placard/Restr:**  
**Notes:** Remove TC and PC numbers from hub and blades. Remove propeller assembly S/N.; F-6-39 installs on wide deck engine; F-6-43 installs on narrow deck engine.

**Prop Setup:**

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 11.6 +-0.1  
**Stud Protrusion**

**Startlock Angle:** NA  
**Feather/High Angle:** 35.0 +-1.0  
**Cwt Angle:** NA

**Non-HPI Items:**

**Non-HPI Spinner:**

**Non-HPI Governor:**

**Hartzell Approved Items:**

| <u>Item Type</u>   | <u>Item Number</u> | <u>Description</u>            | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|--------------------|--------------------|-------------------------------|-----------------|----------------|-----------------|
| PROPELLER          | C3R00270X          | HC-C3YR-4AX/C7690EX[*1]/SM6   | 1               | A/C            |                 |
| PROPELLER          | C3R00271X          | HC-C3YR-4AX/C7690EX/SM6       | 1               | A/C            |                 |
| BLADE              | C7690EX            | PCP:BLADE ASSY, COMP [3,1,1]  | 3               | Prop           |                 |
| BLADE              | C7690EX*1          | PCP:BLADE ASSY, COMP [11,9,1] | 3               | Prop           |                 |
| GOVERNOR           | F6-39              | GOVERNOR ASSEMBLY, F-6-( )    | 1               | A/C            |                 |
| GOVERNOR           | F6-43              | GOVERNOR ASSEMBLY, F-6-( )    | 1               | A/C            |                 |
| SPIN MTG KIT       | A-2476-6           | SPINNER - MTG KIT             | 1               | Prop           |                 |
| COUNTERWEIGHT      | D-7248             | PCP:CLAMP, COUNTERWEIGHT      | 1               | Blade          | Blade Component |
| COUNTERWEIGHT SLUG | A-1744             | BOLT,3/8-24,HEX HEAD          | 2               | Blade          | Blade Component |
| COUNTERWEIGHT SLUG | A-2043-1           | NUT,3/8-24,HEX,SELF-LOCKING   | 2               | Blade          | Blade Component |
| COUNTERWEIGHT SLUG | C-7249             | SLUG, COUNTERWEIGHT           | 2               | Blade          | Blade Component |
| MTG BOLT/STUD      | A-2067             | STUD, MOUNTING, 1/2-20        | 6               | Prop           |                 |

# HARTZELL

ZLIN

**Model:** 526L  
**Trade Name:**  
**Aircraft T.C./STC:** A30EU  
**Propeller Model:** HC-C2YK-4F  
**Propeller T.C.:** P-920

**Blade Model(s):** FC7666A-2  
**Prop Diameter:** 74" TO 72"

### Prop Setup:

**Ref. Radius:** 30  
**Reverse Angle:** NA  
**Low Pitch Angle:** 13.7 +/-0.2  
**Stud Protrusion**

### Non-HPI Items:

**Non-HPI Spinner:**

### Hartzell Approved Items:

| <u>Item Type</u> | <u>Item Number</u> | <u>Description</u>            | <u>Quantity</u> | <u>Qty Per</u> | <u>Comments</u> |
|------------------|--------------------|-------------------------------|-----------------|----------------|-----------------|
| PROPELLER        | C2K00697           | HC-C2YK-4F/FC7666A-2          | 1               | A/C            |                 |
| BLADE            | FC7666A-2          | PCP:BLADE UNIT, B-3202H-6 CWT | 2               | Prop           |                 |
| SPINNER          | C-2513-5           | SPINNER ASSEMBLY              | 1               | Prop           |                 |
| COUNTERWEIGHT    | B-3202H-6          | PCP:COUNTERWEIGHT             | 1               | Blade          | Blade Component |
| MTG BOLT/STUD    | A-2067             | STUD, MOUNTING, 1/2-20        | 6               | Prop           |                 |

## APPLICATION GUIDE 159

**IDS No.:** 667      **Rev.:** 1      **IC**      **Date:** 01/04/2022

**Modifier:**  
**Engine Model:** AIO-360-B1B  
**Power:** 200 HP @ 2700 RPM  
**Placard/Restr:** Normal, Utility and Aerobatic Categories:  
Avoid continuous operation between 2000 and 2350 RPM.

### **Notes:**

**Startlock Angle:** NA  
**Feather/High Angle:** 29.2 +/-0.5  
**Cwt Angle:**

**Non-HPI Governor:** WOODWARD

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## 1. STC Holder Listing

- A. The STC holder corresponds to the modifier listed with the STC number in the Application Information section of this manual.
- B. Supplemental type certificate installations are the responsibility of the STC holder and the STC holder should be contacted if there are any questions or problems concerning the following:
  - (1) Installation approval
  - (2) Performance claims
  - (3) Foreign approval
  - (4) Compatibility with engine or airframe modifications
  - (5) Replacement of lost STC paperwork
- C. Information regarding ownership of supplemental type certificates and addresses of STC owners is not always reliable and is subject to frequent changes.
- D. The addresses presented in this section have been researched through the Federal Aviation Administration Summary of Supplemental Type Certificates and are correct to the best of Hartzell's knowledge.
- E. Please report any errors or discrepancies to Hartzell Propeller Product Support.
- F. When the holder of the STC is no longer able to be consulted, the local FAA Flight Standards office may be an additional source of information. The FAA would be considered the final authority regarding compatibility of an STC with a modified aircraft or an aircraft model not included in the STC.

| STC HOLDER   | ADDRESS  | CITY            | STATE | ZIP CODE | COUNTRY | PHONE        |
|--|--|-----------------|-------|----------|---------|--------------|
| AAA FLYING SERVICE                                 | 947 CHUDALLA RD.                               | WHARTON         | TX    | 77488    | USA     |              |
| AAR OKLAHOMA, INC                                  | 6611 S. MERIDIAN                               | OKLAHOMA CITY   | OK    | 73159    | USA     | 405-681-3000 |
| A.C.E. AVIATION, INC.                              | 397 SMITH RANCH ROAD                           | SAN RAFAEL      | CA    | 94903    | USA     |              |
| AMERICAN AVIATION                                  | PO BOX 482                                     | WALNUT RIDGE    | AR    | 72476    | USA     | 870-886-2418 |
| AERO AIR, INC                                      | PORTLAND-HILLSBORO AIRPORT 2050 NE 25TH AVENUE | HILLSBORO       | OR    | 97124    | USA     | 800-448-2376 |
| AERO AIR, INC                                      | 7510 W. HALL                                   | SPOKANE         | WA    | 99204    | USA     |              |
| AEROFAB INC  | 1 HIGH STREET, P.O. BOX 312                    | SANFORD         | ME    | 04073    | USA     | 207-324-3916 |
| AEROMAR, INC.                                      | 317 NORTH COCONUT LANE PALM ISLAND             | MIAMI           | FL    | 33139    | USA     |              |
| AERO MODIFICATIONS & CONSULTING, LLC               | 6423 AIRPORT PARKWAY, P.O. BOX 35408           | GREENSBORO      | NC    | 27425    | USA     |              |
| AERO MODS INC.                                     | 2827 ESAW STREET                               | MENDEN          | NV    | 89423    | USA     |              |
| AEROSTOL COMPANY                                   | 5104 RECTOR                                    | FORT WORTH      | TX    | 76133    | USA     |              |
| AG AIR SYSTEMS                                     | 373 SE BRIDGEFORD BLVD                         | BEND            | OR    | 97702    | USA     | 541-385-5051 |
| AGRI-JET POWER, INC.                               | RT 1, BOX 169                                  | McCRORY         | AR    | 72101    | USA     |              |
| AIR PLAINS SERVICES CORP.                          | WELLINGTON AIRPORT PO BOX 541                  | WELLINGTON      | KS    | 67152    | USA     | 800-752-8481 |
| AIR TECH AIRCRAFT                                  | 11200 HIGHPOINT COVE                           | OLIVE BRANCH    | MS    | 38654    | USA     |              |
| AIR TRANSPORT CORP.                                | PO BOX 416 S MAIN STREET                       | GRANVILLE       | OH    | 43023    | USA     | 614-587-1010 |
| AIRCRAFT PARTS & DEVELOPMENT                       | PO BOX 1849                                    | LAREDO          | TX    | 78041    | USA     |              |
| AIRCRAFT RESTORATION COMPANY                       | 3410 WEST, 1010 SOUTH                          | PROVO           | UT    | 84601    | USA     |              |
| AIRCRAFT TECHNICAL SVC.                            | 7112 SOPHIA AVE.                               | VAN NUYS        | CA    | 91406    | USA     |              |
| AIRCRAFTSMEN INC                                   | BOX 82516                                      | OKLAHOMA CITY   | OK    | 73108    | USA     |              |
| AIRESEARCH AVIATION CO.                            | CAPITAL AIRPORT                                | SPRINGFIELD     | IL    | 62705    | USA     |              |
| AIRLINE TRAINING CENTER                            | BLDG 105 PHOENIX LITCHFIELD AIRPORT            | GOODYEAR        | AZ    | 85338    | USA     |              |
| ALASKA PROPELLER SPECIALISTS, INC.                 | 5251 LAKESHORE DRIVE                           | ANCHORAGE       | AK    | 95503    | USA     |              |
| ALBERT MISEVIC                                     | 317 EAST BROAD ST.                             | PORT HUENEME    | CA    | 93041    | USA     |              |
| ALPHA AIRCRAFT                                     | P.O. BOX 63                                    | BAKERSFIELD     | CA    | 93300    | USA     |              |
| AMERICAN JET                                       | 3021 AIRPORT AVENUE                            | SANTA MONICA    | CA    | 90405    | USA     |              |
| A M LUTON  | 3025 ELDRIDGE AVENUE                           | BELLINGHAM      | WA    | 98225    | USA     |              |
| APACHE MODIFICATION AIRCRAFT                       | 1893 AIRPORT ROAD                              | KALISPELL       | MT    | 59901    | USA     |              |
| ATLANTIC AERO, INC                                 | 6423 BRYAN BOULEVARD                           | GREENSBORO      | NC    | 27409    | USA     |              |
| AVIATION FABRICATORS                               | 805 N. 4TH STREET                              | CLINTON         | MO    | 64735    | USA     |              |
| BACHNER'S AIRCRAFT                                 | P.O. BOX 2191 PHILLIPS FIELD                   | FAIRBANKS       | AK    | 99701    | USA     |              |
| BASLER TURBO CONVERSIONS                           | P.O. BOX 2305                                  | OSHKOSH         | WI    | 54903    | USA     | 920-236-7820 |
| BEECH AIRCRAFT CORP                                | 9709 EAST CENTRAL PO BOX 85                    | WICHITA         | KS    | 67201    | USA     |              |
| BERNARD A GALLAGHER                                | 1400 SOUTHWEST TOWER                           | HOUSTON         | TX    | 77002    | USA     |              |
| BIRD CORP.   | PO BOX 817                                     | SANDPOINT       | ID    | 83864    | USA     | 208-263-2549 |
| BUSH CONVERSIONS (FORMERLY AVCON)                  | 526 N OLIVER HANGAR J                          | WICHITA         | KS    | 67114    | USA     | 800-752-0748 |
| CAMERON & STAHL, INC -<br>(DBA) AEROSPACE PRODUCTS | 5523 SATSUMA AVE.                              | NORTH HOLLYWOOD | CA    | 91601    | USA     |              |
| CAPE SMYTHE AIR SERVICE, INC.                      | PO BOX 549                                     | BARROW          | AK    | 99723    | USA     |              |

| STC HOLDER  | ADDRESS  | CITY              | STATE | ZIP CODE | COUNTRY | PHONE        |
|---|--|-------------------|-------|----------|---------|--------------|
| CENTURY AVIATION, JOHN W DOWNS INC.   | 5125 VOYAGER DRIVE                               | DALLAS            | TX    | 75237    | USA     |              |
| CHAMBERLAIN AVIATION, INC.  | 2664 GILCHRIST ROAD                              | AKRON             | OH    | 44309    | USA     |              |
| CHANDLER AIRCRAFT SERVICE   | 151 W. LAMBERT AVENUE                            | EL MONTE          | CA    | 91731    | USA     |              |
| CHARLES SCHACHLE  | 3901 E SPRING                                    | LONG BEACH        | CA    | 90801    | USA     |              |
| CHARLES YATES   | ROUTE 1, BOX 356                                 | COLUMBIA          | LA    | 71418    | USA     | 318-435-7222 |
| CLINTON ANDERSON  | RURAL ROUTE 1                                    | NEHOWKA           | NE    | 68413    | USA     |              |
| COLEMILL ENTERPRISES, INC. (NOW OWNED BY MIKE JONES AIRCRAFT)<br>MIKE JONES AIRCRAFT SALES INC. | 1932 MEMORIAL BLVD.                              | MURFREESBORO      | TN    | 37129    | USA     | 615-390-0915 |
| CONSOLIDATED FUEL SYSTEMS   | 1400 E SOUTH BOULEVARD                           | MONTGOMERY        | AL    | 36116    | USA     |              |
| D'SHANNON PRODUCTS  | 13610 GLANDER LANE                               | LINDSTROM         | MN    | 55045    | USA     | 800-328-4629 |
| D. H. MORETON   | 560 MARQUETTE STREET                             | PACIFIC PALISADES | CA    | 90272    | USA     |              |
| DAVIS AVIATION SERVICES INC   | P.O. BOX 192                                     | BRISTOL           | TN    | 37621    | USA     | 423-652-1113 |
| DEE HOWARD COMPANY  | PO BOX 469001                                    | SAN ANTONIO       | TX    | 78246    | USA     |              |
| DEL-AIR   | 2121 S. WILDCAT WAY                              | PORTERVILLE       | CA    | 93257    | USA     |              |
| DELTA TURBINES, INC   | 3878 FITE RD.                                    | MILLINGTON        | TN    | 38053    | USA     | 901-873-4701 |
| DELUCA OF CALIFORNIA  | PO BOX 727                                       | CABAZON           | CA    | 92230    | USA     |              |
| DONALD KYTE   | 216 146th STREET SW                              | LYNNWOOD          | WA    | 98037    | USA     |              |
| E. HORTON, JR.  | 915 KENT ROAD                                    | LUBBOCK           | TX    | 79408    | USA     |              |
| EAGLE CREEK AVIATION  | 4101 DANDY TRAIL                                 | INDIANAPOLIS      | IN    | 46254    | USA     |              |
| EL PASO NATURAL GAS   | P.O. BOX 1492                                    | EL PASO           | TX    | 79910    | USA     |              |
| ELLEN BELOTTI   | 1208 EAST CHARLESTON RD                          | LAS VEGAS         | NV    | 89114    | USA     |              |
| EXCALIBUR AVIATION  | PO BOX 32007                                     | SAN ANTONIO       | TX    | 78216    | USA     | 210-927-6201 |
| EXECUTIVE WINGS COMPANY   | LAKELAND MUNICIPAL AIRPORT 3470 DRANE FIELD ROAD | LAKELAND          | FL    | 33811    | USA     | 863-648-1648 |
| FARM & RANCH AERIAL SERVICE   | ROUTE 3, BOX 71A                                 | WHARTON           | TX    | 77055    | USA     |              |
| FARRINGTON AIRCRAFT CORP  | PO BOX 9   | PADUCAH           | KY    | 42001    | USA     |              |
| FIELD AVIATION  | AIRCRAFT SERVICE DIVISION BOB SIKES AIRPORT      | CRESTVIEW         | FL    | 42536    | USA     |              |
| FIELD AVIATION COMPANY, INC   | LESTER B. PEARSON INTL AIRPORT PO BOX 6023       | TORONTO, ONTARIO  |       | L5P 1B9  | CANADA  |              |
| FLOYD D. STILWELL   | 5060 EAST FALCON DR.                             | MESA              | AZ    | 85205    | USA     |              |
| FRAKES AVIATION, INC.   | ROUTE 3, BOX 229-B                               | CLEBURNE          | TX    | 76031    | USA     | 817-645-9136 |
| FRANKLIN AIRCRAFT ENGINES INC.  | 136 RACQUETTE DRIVE                              | FORT COLLINS      | CO    | 80524    | USA     |              |
| FULTON CONVERSION CO.   |  | SOUTHBURY         | CT    | 06488    | USA     |              |
| G & G AERO-SERV, INC.   | LUBBOCK INTL ARPT 2nd HANGER, WEST RAMP          | LUBBOCK           | TX    | 79403    | USA     |              |
| GANDER AIRCRAFT   | 15195 NE 21ST AVE.                               | N MIAMI BEACH     | FL    | 33162    | USA     |              |
| GARRETT GENERAL AVIATION SERV. CO.  | CAPITL AIRPORT                                   | SPRINGFIELD       | IL    | 62705    | USA     |              |
| GARY FRITZLER   | 12700 LAKE AVE #1911                             | LAKESWOOD         | OH    | 44107    | USA     |              |
| GREENWICH AIRCRAFT CORP.  | 7727 AIRPORT ROAD                                | WACO              | TX    | 76708    | USA     |              |
| GRAHAM FLYING SERVICE   | BOX 26 BLVD STATION                              | SIOUX CITY        | IA    | 51101    | USA     |              |
| GULFSTREAM AEROSPACE  | 7301 NW 50TH STREET                              | BETHANY           | OK    | 73008    | USA     |              |

| STC HOLDER                     | ADDRESS                                      | CITY          | STATE | ZIP CODE | COUNTRY | PHONE            |
|--------------------------------|--|---------------|-------|----------|---------|------------------|
| HAMILTON AIRCRAFT              | 6501 S PARK AVENUE                           | TUCSON        | AZ    | 85706    | USA     |                  |
| HARTZELL PROPELLER INC         | ONE PROPELLER PLACE                          | PIQUA         | OH    | 45356    | USA     | 937-773-4203     |
| HELIO AIRCRAFT LIMITED         | PO BOX 604                                   | PITTSBURGH    | KS    | 66762    | USA     |                  |
| HOFFMANN GMBH & CO             | KUEPFERLINGSTR 9                             | ROSENHEIM     |       | D-83022  | GERMANY | 49.0.8031.1878.0 |
| HOMER J. PENWELL               | 900 SUNSET DRIVE                             | EL RENO       | OK    | USA      |         |                  |
| HUTCHINSON A/C SERVICE         | P.O. BOX 524                                 | BORGER        | TX    | 79006    | USA     |                  |
| INTERCONTINENTAL JET, INC.     | 3322 N. 74 <sup>TH</sup> EAST AVE, HANGAR 27 | TULSA         | OK    | 74115    | USA     |                  |
| J.B. SIMPSON                   | BOX 126                                      | GILLIAM       | LA    | 70129    | USA     |                  |
| J.W. MILLER AVIATION, INC.     | HSB BOX 7757                                 | MARBLE FALLS  | TX    | 78654    | USA     | 512-598-2556     |
| JACKSON REED                   | 607 NORTH PETERS                             | NORMAN        | OK    | 73069    | USA     |                  |
| JAVELIN CONVERSIONS, INC.      | PO BOX 308                                   | ALICE         | TX    | 78333    | USA     |                  |
| JET ENTERPRISES, INC.          | 4212 AIRPORT RD.                             | CINCINNATI    | OH    | 45226    | USA     |                  |
| JETPROP LLC                    | E. 6427 RUTTER ROAD, FELTS FIELD             | SPOKANE       | WA    | 99212    | USA     |                  |
| JETSTREAM INC.                 | PO BOX 210187                                | DALLAS        | TX    | 75237    | USA     |                  |
| JOE PEACOCK                    | 106 W. SECOND ST.                            | McCRORY       | AR    | 72101    | USA     |                  |
| JOHN E AYER                    | 405 S. THIRD ST.                             | LE SUEUR      | MN    | 56058    | USA     |                  |
| JOHN JEWELL AIRCRAFT, INC      | P.O. BOX 399                                 | HOLLY SPRINGS | MS    | 38635    | USA     | 662-252-6377     |
| JOHN R HARDY                   | P.O. BOX 871008                              | WASILLA       | AK    | 99687    | USA     |                  |
| JOHNSTON AIRCRAFT SERVICE      | P.O. BOX 757, TULARE AIRPARK                 | TULARE        | CA    | 93274    | USA     | 559-686-1794     |
| KELLY AEROSPACE POWER SYSTEMS  | 1400 E SOUTH BOULEVARD                       | MONTGOMERY    | AL    | 36116    | USA     |                  |
| KENDRICK BROOKS DAVIS          | 400 KILLIAN LAKE RD.                         | MOUNTIAN VIEW | AR    | 72560    | USA     | 870-270-6323     |
| KENMORE AIR HARBOR             | PO BOX 82064                                 | KENMORE       | WA    | 98028    | USA     | 206-486-1257     |
| KNOTS 2 U, LTD                 | 3106 BIENEMAN RD.                            | BURLINGTON    | WI    | 53105    | USA     | 262-763-6152     |
| KWAD COMPANY                   | 4530 JETTRIDGE DRIVE N.W.                    | ATLANTA       | GA    | 30327    | USA     |                  |
| L.L. WALKER                    | PO BOX 5158                                  | HOUSTON       | TX    | 77012    | USA     |                  |
| LAKE 4 SALES CORP.             | PO BOX 399 HOOKS MEMORIAL AIRPORT            | TOMBALL       | TX    | 77375    | USA     |                  |
| LI'L RED AERO, INC             | RT1, BOX 120 MUNICIPAL AIRPORT               | KEARNEY       | NE    | 68847    | USA     |                  |
| LOPRESTI SPEED MERCHANTS       | 2620 N. AIRPORT DRIVE                        | VERO BEACH    | FL    | 32960    | USA     | 800-859-4757     |
| MACHEN, INC.                   | 10555 AIRPORT DRIVE COEUR D'ALENE AIRPORT    | HAYDEN LAKE   | ID    | 83835    | USA     | 208-762-0338     |
| MARSH AVIATION                 | 5060 EAST FALCON DRIVE                       | MESA          | AZ    | 85205    | USA     | 602-832-3770     |
| MAULE AEROSPACE TECHNOLOGY     | LAKE MAULE, RT 5 BOX 318                     | MOULTRIE      | GA    | 31768    | USA     | 229-985-6197     |
| MAXWELL AIRCRAFT               | 17233 CHESTERFIELD AIRPORT ROAD              | CHESTERFIELD  | MO    | 63017    | USA     |                  |
| MAXWELL AIRCRAFT SERVICE, INC. | CRYSTAL AIRPORT                              | MINNEAPOLIS   | MN    | 55428    | USA     | 763-533-8611     |
| McDERMOTT JR & CO.             | LAKEFRONT AIRPORT                            | NEW ORLEANS   | LA    | 70113    | USA     |                  |

| STC HOLDER                               | ADDRESS                                    | CITY           | STATE   | ZIP CODE | COUNTRY   | PHONE        |
|--|--|----------------|---------|----------|-----------|--------------|
| McKENZIE FLYING SERVICE                  | 28835 LOCKHEED DRIVE                       | EUGENE         | OR      | 97402    | USA       |              |
| McKINNON ENTERPRISES, INC.               | RT 1, BOX 690                              | SANDY          | OR      | 97055    | USA       |              |
| MERLYN PRODUCTS, INC.                    | 7500 W. PARK DRIVE                         | SPOKANE        | WA      | 99204    | USA       |              |
| MET-CO-AIRE                              | BOX 2216                                   | FULLERTON      | CA      | 92633    | USA       |              |
| MID AMERICA STOL                         | 1970 SW STREET UNIT 370                    | WICHITA        | KS      | 67277    | USA       |              |
| MIKE TRUDEAU                             | 13610 GLADER LANE                          | LINDSTROM      | MN      | 55045    | USA       |              |
| MITSUBISHI HEAVY INDUSTRIES AMERICA INC. | 4951 AIRPORT PKWY SUITE 800                | ADDISON        | TX      | 75001    | USA       |              |
| MR. RPM                                  | 25 JACKS PASS CT.                          | CAMANO ISLAND  | WA      | 98282    | USA       | 360-387-2272 |
| MURLIN GENE SMITH                        | 1231 WOODWARD AVENUE                       | TOPEKA         | KS      | 66604    | USA       |              |
| MT PROPELLER                             | AIRPORT WALLMUELHE, FLUGPLATZSTR. 1        | ATTING         |         | D-94348  | GERMANY   |              |
| NORTHLAND AVIATION, INC.                 | P.O. BOX 60143                             | FAIRBANKS      | AK      | 99706    | USA       |              |
| O & N AIRCRAFT MODIFICATIONS, INC.       | 210 WINDSOCK LN PO BOX 292 SEAMANS AIRPORT | FACTORYVILLE   | PA      | 18419    | USA       | 570-945-3769 |
| O. S. WYATT, JR.                         | NINE GREENWAY PLAZA                        | HOUSTON        | TX      | 77046    | USA       |              |
| PACIFIC PROPELLER, INC.                  | PO BOX 946 5892 S 228TH ST.                | KENT           | WA      | 98031    | USA       |              |
| PAGE INDUSTRIES, INC.                    | PO BOX 191                                 | YUKON          | OK      | 73099    | USA       |              |
| PAUL E. OEWEN                            | 4725 HIGHLAND SPRINGS ROAD                 | LAKEPORT       | CA      | 95453    | USA       | 707-263-0412 |
| PAY'S AIR SERVICE (PTY) LTD              | PO BOX 158                                 | SCONE, NSW     |         | 2336     | AUSTRALIA | 65 451555    |
| PDX, INC.                                | 2105 SE ADAMS                              | MILWAUKEE      | OR      | 97222    | USA       |              |
| PK FLOAT DIVISION, DEVORE AVIATION CORP  | 125 MINEOLA AVENUE                         | ROSLYN HEIGHTS | NY      | 11577    | USA       |              |
| PEN TURBO AVIATION CANADA                | 1804 ALSTEP DRIVE, UNIT 21                 | MISSISSAUGA    | ONTARIO | L5S 1W1  | CANADA    |              |
| PETERSON A/C REPAIR                      | 1301 WENTWOOD                              | IRVING         | TX      | 75061    | USA       |              |
| PORSCHE AVIATION PRODUCTS                | R.R. 2, BOX 118A GALESBURG AIRPORT         | GALESBURG      | IL      | 61401    | USA       |              |
| PROPELLERS INC.                          | 5802 S. 228TH STREET                       | KENT           | WA      | 98031    | USA       |              |
| RAISBECK ENGINEERING                     | 4411 SOUTH RYAN WAY                        | SEATTLE        | WA      | 98178    | USA       | 206-723-2000 |
| RAM AIRCRAFT                             | 7505 KARLMAY DR.                           | WACO           | TX      | 76708    | USA       | 817-752-8381 |
| RAYTHEON AIRCRAFT COMPANY                | P.O. BOX 85                                | WICHITA        | KS      | 67201    | USA       |              |
| RAY RAINERI                              | 1212 NORTH MOORE ROAD                      | CAMAND ISLAND  | WA      | 98292    | USA       |              |
| RFB COMPANY, INC.                        | CHANDLER FIELD                             | PURCELL        | OK      | 73080    | USA       |              |
| RILEY TURBOSTREAM CORP                   |  | VAN NUYS       | CA      | 91408    | USA       |              |
| RK WILSON                                | 3808 VIA LA SELVA PALOS VERDES ESTATES     |                | CA      | 90274    | USA       |              |
| ROBERT DOUTHIT                           | PO BOX 795                                 | EL CENTRO      | CA      | 92243    | USA       |              |
| ROBERT OR BARBARA WILLIAMS               | 213 NORTH CLARK                            | UDALL          | KS      | 67146    | USA       | 620-782-3317 |
| ROBERT W HALDI                           | 7211 ALDGATE LANE                          | INDIANAPOLIS   | IN      | 46250    | USA       |              |

| STC HOLDER                           | ADDRESS   | CITY           | STATE  | ZIP CODE  | COUNTRY | PHONE        |
|--------------------------------------|---|----------------|--------|-----------|---------|--------------|
| ROCKET ENGINEERING                   | 6427 E. RUTTER RD. FELTS FIELD                  | SPOKANE        | WA     | 99212     | USA     | 509-535-4401 |
| RON'S AIR SERVICE                    | BOX 12  | TWO BUTTES     | CO     | 81084     | USA     |              |
| RYDER-AVIALL                         | 7511 LEMMON AVE                                 | DALLAS         | TX     | 75209     | USA     |              |
| S & R AIRCRAFT, INC.                 | 947 CHUDALLA ROAD                               | WHARTON        | TX     | 77488     | USA     | 979-532-8333 |
| SS AVIATION                          | 27609 NE 65TH STREET                            | CAMAS          | WA     | 98607     | USA     |              |
| STC/MOONEY LIMITED                   | 6427 E. RUTTER ROAD, FELTS FIELD                | SPOKANE        | WA     | 99212     | USA     |              |
| SCHAFER AIRCRAFT MODIFICATIONS       | MADISON-COOPER AIRPORT ROUTE 10, BOX 301        | WACO           | TX     | 76708     | USA     | 817-753-1551 |
| SEAPLANE FLYING, INC                 | 1111 S.E. FIFTH STREET                          | VANCOUVER      | WA     | 98666     | USA     |              |
| SERV-AERO ENG. INC.                  | PO BOX 96                                       | DOS PALOS      | CA     | 93620     | USA     | 831-422-7866 |
| SIAM MARCHETTI SPA                   | 21018 INDIPENDENZA                              | SESTO CALENDE  | VARESE | 21018     | ITALY   |              |
| SIERRA INDUSTRIES, INC.              | PO BOX 5184                                     | UVALDE         | TX     | 78802     | USA     | 830-278-4481 |
| SIGNATURE FLIGHT SUPPORT CORPORATION | 7511 LEMMON AVENUE, HANGAR C                    | DALLAS         | TX     | 75209     | USA     |              |
| SIM-U-FLIGHT                         | 17641 SE 295TH STREET                           | KENT           | WA     | 98042     | USA     | 206-630-1054 |
| SOLOY CONVERSIONS                    | 450 PAT KENNEDY WAY SW                          | OLYMPIA        | WA     | 98501     | USA     | 206-754-7000 |
| STC BEE INC.                         | 10900 RANIER AVE. SOUTH                         | SEATTLE        | WA     | 98178     | USA     |              |
| STYLES AVIATION                      | SKY ACRES AIRPORT NORTH SMITH RD                | LA GRANGEVILLE | NY     | 12540     | USA     | 914-677-8185 |
| SUPERSKYROCKET, LLC                  | 2026 PALOMAR AIRPORT RD                         | CARLSBAD       | CA     | 92008     | USA     | 760-438-9089 |
| T.A.C. INC.                          | PO BOX 1180                                     | BLAINE         | WA     | 98230     | USA     |              |
| T-G AVIATION C/O FALK AND SIEMER     | 2600 MAIN PLACE TOWER                           | BUFFALO        | NY     | 14202     | USA     |              |
| TEXAS SKYWAYS, INC.                  | 308 BOERNE STAGE AIRFIELD                       | BOERNE         | TX     | 78006     | USA     | 830-755-8989 |
| TEXAS TURBINE CONVERSIONS, INC.      | 8955 CR 135                                     | CELINA         | TX     | 75009     | USA     |              |
| THAMER AIRCRAFT (T.A.R.D.)           | 1300 EAST EDWARD DRIVE                          | TIPP CITY      | OH     | 45371     | USA     | 800-899-7597 |
| THRUSH AIRCRAFT INC.                 | 300 OLD PRETORIA ROAD                           | ALBANY         | GA     | 37121     | USA     |              |
| TORBET AIRCRAFT, INC.                | ORANGE CO. AIRPORT                              | SANTA ANA      | CA     | 92702     | USA     |              |
| TRADEWIND TURBINES                   | PO BOX 31930, 10001 AMERICAN DRIVE              | AMARILLO       | TX     | 79120-193 | USA     |              |
| TULSAIR BEECHCRAFT, INC.             | BOX 2146  | TULSA          | OK     | 74158     | USA     |              |
| TURBINES INC.                        | 7303 MAYNARD WHEELER LANE                       | TERRE HAUTE    | IN     | 47803     | USA     | 812-877-2587 |
| TURBINE CONVERSIONS, INT             | 2016 PALOMAR AIRPORT RD                         | CARLSBAD       | CA     | 92008     | USA     |              |
| TURBINE CONVERSIONS LTD              | 18155 120TH AVE, P.O. BOX 8                     | NUNICA         | MI     | 49448     | USA     | 616-837-9428 |
| TURBOTECH, INC.                      | 2215 PARROTT WAY                                | KELSO          | WA     | 98626     | USA     |              |
| TURNER AVIATION CO., INC.            |   | TURNER         | ME     | 04282     | USA     |              |
| UNION OIL CO. OF CA                  | 617 W SEVENTH ST.                               | LOS ANGELES    | CA     | 90052     | USA     |              |
| UNIVAIR                              | 2500 HIMALAYA ROAD                              | AURORA         | CO     | 80011     | USA     | 303-364-7661 |
| VIKING AIR LTD.                      | VICTORIA INTERNATIONAL AIRPORT 9574 HAMPDEN RD. | SIDNEY         | BC     | V8L 5V5   | CANADA  | 250-656-7227 |
| VOLPAR AIRCRAFT CORP. INC.           | 7701 WOODLEY AVENUE                             | VAN NUYS       | CA     | 91406     | USA     | 818-994-5023 |
| W.L. JOHNSON JR.                     | 7721 DRIFTWOOD, S.E.                            | GRAND RAPIDS   | MI     | 49506     | USA     |              |
| WEST COAST PROP                      | DIV OF HAWKER PACIFIC INC 11310 SHERMAN WAY     | SUN VALLEY     | CA     | 91352     | USA     | 213-849-3121 |

| STC HOLDER                    | ADDRESS                                    | CITY          | STATE | ZIP CODE | COUNTRY | PHONE        |
|-------------------------------|--|---------------|-------|----------|---------|--------------|
| WEST COAST PROPELLER CO.      | 1101 CHESTNUT STREET                       | BURBANK       | CA    | 91500    | USA     |              |
| WEST TENNESSEE AVIATION, INC. | EVERETT-STEWART AIRPORT                    | UNION CITY    | TN    | 38261    | USA     |              |
| WESTERN COMMANDER             | 3011 AIRPORT AVENUE                        | SANTA MONICA  | CA    | 90405    | USA     |              |
| WESTERN SKYWAYS, INC.         | 1865 LAUNA                                 | MONTROSE      | CO    | 81401    | USA     |              |
| WILLIAM E. HUSK               | BOX 65                                     | DUBLIN        | GA    |          | USA     |              |
| WILLIAM WIPRUD                | 6443 SOUTHWEST BEAVERTON HILLSDALE AIRPORT | PORTLAND      | OR    | 97221    | USA     |              |
| WIPAIRE, INC                  | 1700 HENRY AVENUE                          | SOUTH ST PAUL | MN    | 55075    | USA     | 651-451-1205 |
| WOODWARD GOVERNOR CO          | 5001 NORTH SECOND STREET                   | ROCKFORD      | IL    | 61101    | USA     |              |

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    B. Data Field Definitions .....3

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## 1. Appendix

### A. Purpose

- (1) The Appendix chapter of this manual is a reference tool only. Limited application information is arranged in a manner that allows the user to quickly scan for related applications. Refer to the Application Information chapter of this manual for more detailed information.
- (2) The data in the Appendix chapter of this manual is sorted according to Aircraft Manufacturer.

### B. Data Field Definitions

- (1) This Appendix chapter contains the following installation data:
  - (a) Aircraft Manufacturer
  - (b) Aircraft Model and Trade Name
  - (c) Aircraft TC/STC Number and Modifier
  - (d) Engine Mfg. and Engine power (HP and RPM)
  - (e) Propeller Model and Blade model(s) approved for installation
  - (f) Propeller Diameter/Range
  - (g) Spinner part number (if applicable)
  - (h) IDS Reference Number

**NOTE:** The IDS Reference number shown in the far right column of this appendix may be used as a look-up number to locate the corresponding, more detailed record located in the Application Information chapter of this manual.

- (2) Refer to the Data Field Definitions in the Application Information Chapter of this manual for a definition of each data field contained in this Appendix.

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| <u>Model/Trade Name:</u>   | <u>Aircraft T.C./STC No/ Modifier:</u> | <u>Engine/ Power:</u>                             | <u>Propeller/Blade Model(s):</u>                    | <u>Prop Diameter:</u> | <u>Spinner:</u>   | <u>IDS Ref. No.:</u> |
|--|--|---|---|-----------------------|-------------------|----------------------|
| <b>ADAM AIRCRAFT INDUSTRIES</b><br>A500 (front) TRITON AEROSPACE   | A00009DE                               | CONTINENTAL TSIO-550-E<br>350 HP @ 2700 RPM       | PHC-H3YF-2UF<br>FC7693DF<br>FC7693DF*2<br>FC7693DFK | 78"                   | D-4511-3P         | <b>2455</b>          |
| <b>ADAM AIRCRAFT INDUSTRIES</b><br>A500 (REAR) TRITON AEROSPACE    | A00009DE                               | CONTINENTAL TSIO-550-E<br>350 HP @ 2700 RPM       | PHC-H3YF-2LUF<br>FLC7693DF                          | 78"                   | D-4511-3LP        | <b>2456</b>          |
| <b>Advanced Aero Components</b><br>GLASAIR II, IIS Glasair II, IIS | Experimental                           | LYCOMING IO-360-B1E<br>180 HP @ 2700 RPM          | HC-F2YR-1F<br>F7068-2                               | 68"-67"               |                   | <b>3758</b>          |
| <b>ADVANCED AERO. &amp; STRUC., INC.</b><br>450 JETCRUZER          | A49NM                                  | PRATT & WHITNEY PT6A-27<br>599 HP @ 2200 RPM      | HC-B3TN-3UL<br>LT10173N-21R                         | 80.375" TO 79.375"    | C-3065-3          | <b>1055</b>          |
| <b>AERMACCHI (AERONAUTICA MACCHI)</b><br>AM-3                      | A19EU                                  | CONTINENTAL GTSIO-520-C<br>340 HP @ 2400 RPM      | HC-83VK-4, HC-A3VK-4<br>V8833<br>V8833N             | 88 3/8" TO 86 3/8"    | 837-8             | <b>2080</b>          |
| <b>AERMACCHI (AERONAUTICA MACCHI)</b><br>AM-3                      | A19EU                                  | CONTINENTAL GTSIO-520-C<br>340 HP @ 2400 RPM      | HC-A3MVK-4<br>MV8833N                               | 88 3/8" TO 86 3/8"    | 837-8             | <b>61</b>            |
| <b>AERMACCHI (AERONAUTICA MACCHI)</b><br>AM-3C                     | Unknown                                | LYCOMING GSO-480-B1B6, -B1C3<br>340 HP @ 2182 RPM | HC-B3R20-4<br>R10160-1<br>R10160N-1                 | 100"                  | 836-20            | <b>62</b>            |
| <b>AERMACCHI (AERONAUTICA MACCHI)</b><br>AL 60-F5                  | 7A12                                   | LYCOMING IO-720-A1A<br>400 HP @ 2650 RPM          | HC-A3VK-4<br>V8433<br>V8433N                        | 84 5/8" TO 82 5/8"    | C-2513-2P         | <b>2079</b>          |
| <b>AERMACCHI (AERONAUTICA MACCHI)</b><br>AL 60-F5                  | 7A12                                   | LYCOMING IO-720-A1A<br>400 HP @ 2650 RPM          | HC-A3MVK-4<br>MV8433N                               | 84 5/8" TO 82 5/8"    | C-2513-2P         | <b>60</b>            |
| <b>AERMACCHI S.P.A.</b><br>S.205-22R                               | A9EU                                   | FRANKLIN 6A-350-C1<br>220 HP @ 2800 RPM           | HC-C2YF-1BF<br>F8459-4                              | 80"                   | 835-23P<br>835-23 | <b>945</b>           |

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| <u>Model/Trade Name:</u>  | <u>Aircraft T.C./STC No/ Modifier:</u> | <u>Engine/ Power:</u>                                      | <u>Propeller/Blade Model(s):</u>                        | <u>Prop Diameter:</u> | <u>Spinner:</u>                        | <u>IDS Ref. No.:</u> |
|---|--|--|---|-----------------------|--|----------------------|
| <b>AERMACCHI S.P.A.</b><br>S.205-22R                              | A9EU                                   | LYCOMING O-540-E4A5<br>260 HP @ 2700 RPM                   | HC-C2YK-1BF<br>F8467-8R                                 | 76 TO 75              |  | <b>2554</b>          |
| <b>AERMACCHI S.P.A.</b><br>S.205-22R                              | A9EU                                   | LYCOMING O-540-E4A5<br>260 HP @ 2700 RPM                   | HC-C2YK-1BF<br>F8477-8R                                 | 76                    |  | <b>2555</b>          |
| <b>AERO COMMANDER</b><br>112, 112A, 112B 390 Super Commander      | SA00302BO<br>AERODYME CORPORATION      | LYCOMING IO-390-A3A6<br>210 HP @ 2700 RPM                  | HC-E3YR-1RF<br>F7392*1                                  | 75" TO 73"            | C-3535-1P<br>C-3535-1                  | <b>3275</b>          |
| <b>AERO COMMANDER</b><br>690, 690A, 690B, 690C TURBO<br>COMMANDER | STC-SA1464NM<br>AERO AIR               | HONEYWELL TPE331-5-251K, -252K, -254K<br>715 HP @ 1591 RPM | HC-B3TN-5NL<br>LT10673-2Q<br>LT10673B-2Q<br>LT10673N-2Q | 104"                  | 836-57<br>D-7330<br>836-57P<br>D-7330P | <b>2789</b>          |
| <b>AERO COMMANDER</b><br>111                                      | A11SO                                  | LYCOMING O-360-A1G6<br>180 HP @ 2700 RPM                   | HC-E2YR-1B(F)<br>F7666                                  | 76"                   | C-3533-P<br>C-3533                     | <b>2</b>             |
| <b>AERO COMMANDER</b><br>112 COMMANDER                            | A12SO                                  | LYCOMING IO-360-C1D6<br>200 HP @ 2700 RPM                  | HC-E2YR-1B(F)<br>F7666A                                 | 76" TO 74"            | C-3533-P<br>C-3533                     | <b>3</b>             |
| <b>AERO COMMANDER</b><br>112B COMMANDER                           | A12SO                                  | LYCOMING IO-360-C1D6<br>200 HP @ 2700 RPM                  | HC-E2YR-1BF<br>F8467-7R                                 | 77" TO 76.5"          | C-3533-P<br>C-3533                     | <b>4</b>             |
| <b>AERO COMMANDER</b><br>112, 112B COMMANDER                      | STC-SA00499SE<br>HARTZELL PROPELLER    | LYCOMING IO-360-C1D6<br>200 HP @ 2700 RPM                  | HC-E3YR-1RF<br>F7392                                    | 75" TO 73"            | C-3535-1<br>C-3535-1P                  | <b>1209</b>          |
| <b>AERO COMMANDER</b><br>112TC, 112TCA COMMANDER                  | STC-SA00499SE<br>HARTZELL PROPELLER    | LYCOMING TO-360-C1A6D<br>210 HP @ 2575 RPM                 | HC-E3YR-1RF<br>F7392                                    | 75" TO 73"            | C-3535-1<br>C-3535-1P                  | <b>1869</b>          |
| <b>AERO COMMANDER</b><br>112TC, 112TCA COMMANDER                  | A12SO                                  | LYCOMING TO-360-C1A6D<br>210 HP @ 2575 RPM                 | HC-E2YR-1BF<br>F8467-7R                                 | 77" TO 76.5"          |  | <b>5</b>             |

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| <u>Model/Trade Name:</u>                                 | <u>Aircraft T.C./STC No/ Modifier:</u> | <u>Engine/ Power:</u>                                    | <u>Propeller/Blade Model(s):</u>                                    | <u>Prop Diameter:</u> | <u>Spinner:</u>    | <u>IDS Ref. No.:</u> |
|--|--|--|---|-----------------------|--------------------|----------------------|
| <b>AERO COMMANDER</b><br>114 COMMANDER                   | STC-SA243NW<br>MACHEN INC.             | LYCOMING IO-540-G1, -P1, -K1, -S1<br>290 HP @ 2575 RPM   | HC-C3YR-1RF<br>F8468A-6R  | 80"                   | A-2295-1           | 6                    |
| <b>AERO COMMANDER</b><br>114 COMMANDER                   | A12SO                                  | LYCOMING IO-540-T4A5D, -T4B5D<br>260 HP @ 2700 RPM       | HC-C2YR-1BF<br>F8467-7R   | 77" NO CUT OFF        | C-3533             | 7                    |
| <b>AERO COMMANDER</b><br>500 AERO COMMANDER              | 6A1                                    | LYCOMING O-540-A2B<br>250 HP @ 2575 RPM                  | HC-A2VK-2, HC-82VK-2<br>V8433-4                                     | 80.2" TO 80"          | 835-30<br>835-6    | 2052                 |
| <b>AERO COMMANDER</b><br>500 AERO COMMANDER              | 6A1                                    | LYCOMING O-540-A2B<br>250 HP @ 2575 RPM                  | HC-A2XK-2, HC-82XK-2<br>8433-4                                      | 80.2" TO 80"          | 835-30<br>835-6    | 2051                 |
| <b>AERO COMMANDER</b><br>500 AERO COMMANDER              | 6A1                                    | LYCOMING O-540-A2B<br>250 HP @ 2575 RPM                  | HC-A2MVK-2<br>MV8433N-4*2   | 80.2" TO 80"          | 835-30<br>835-6    | 8                    |
| <b>AERO COMMANDER</b><br>500A AERO COMMANDER             | 6A1                                    | CONTINENTAL IO-470-M<br>260 HP @ 2625 RPM                | HC-82XF-2, HC-A2XF-2<br>8433-4                                      | 80.3" TO 78"          | C-2530<br>C-2509-1 | 2053                 |
| <b>AERO COMMANDER</b><br>500A AERO COMMANDER             | 6A1                                    | CONTINENTAL IO-470-M<br>260 HP @ 2625 RPM                | HC-82VF-2, HC-A2VF-2<br>V8433-4                                     | 80.3" TO 78"          | C-2530<br>C-2509-1 | 2054                 |
| <b>AERO COMMANDER</b><br>500A AERO COMMANDER             | 6A1                                    | CONTINENTAL IO-470-M<br>260 HP @ 2625 RPM                | HC-A2MVF-2<br>MV8433N-4*2   | 80.3" TO 78"          | C-2530<br>C-2509-1 | 9                    |
| <b>AERO COMMANDER</b><br>500B, 500S, 500U AERO COMMANDER | 6A1                                    | LYCOMING IO-540-B1(A,C)5, -E1(A,B)5<br>290 HP @ 2575 RPM | HC-83XK-2, HC-A3XK-2, HC-83XK-2A, HC-A3XK-2A<br>8433-4              | 80.6" TO 80"          | C-2513             | 2055                 |
| <b>AERO COMMANDER</b><br>500B, 500S, 500U AERO COMMANDER | 6A1                                    | LYCOMING IO-540-B1(A,C)5, -E1(A,B)5<br>290 HP @ 2575 RPM | HC-83VK-2, HC-A3VK-2, HC-83VK-2A, HC-A3VK-2A<br>V8433-4<br>V8433N-4 | 80.6" TO 80"          | C-2513             | 2056                 |

# HARTZELL

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| <u>Model/Trade Name:</u>                                      | <u>Aircraft T.C./STC No/ Modifier:</u>          | <u>Engine/ Power:</u>   | <u>Propeller/Blade Model(s):</u>             | <u>Prop Diameter:</u> | <u>Spinner:</u>    | <u>IDS Ref. No.:</u> |
|---|---|---|--|-----------------------|--------------------|----------------------|
| <b>AERO COMMANDER</b><br>500B, 500S, 500U AERO COMMANDER      | 6A1   | LYCOMING IO-540-B1(A,C)5, -E1(A,B)5<br>290 HP @ 2575 RPM                | HC-A3MVK-2A<br>MV8433N-4*2                   | 80.6" TO 80"          | C-2513-P<br>C-2513 | <b>10</b>            |
| <b>AERO COMMANDER</b><br>500B, 500S, 500U SHRIKE<br>COMMANDER | 6A1   | LYCOMING IO-540-E1(A,B)5 (-B1(A,C)5;<br>500B ONLY)<br>290 HP @ 2575 RPM | HC-C3YR-2(U)(F)<br>FC8468-6R*2<br>FC8468B-6R | 80"                   | C-3258             | <b>12</b>            |
| <b>AERO COMMANDER</b><br>500 AERO COMMANDER                   | STC-SA340SO<br>COLEMILL ENTERPRISE              | CONTINENTAL IO-520-D, -E<br>300 HP @ 2850 RPM                           | EHC-83XF-2B, EHC-A3XF-2B<br>7636D            | 76.6"                 | 836-25P            | <b>2058</b>          |
| <b>AERO COMMANDER</b><br>500 AERO COMMANDER                   | STC-SA340SO<br>COLEMILL ENTERPRISE              | CONTINENTAL IO-520-D, -E<br>300 HP @ 2850 RPM                           | EHC-83VF-2B, EHC-A3VF-2B                     | 76.6"                 | 836-25P            | <b>2059</b>          |
| <b>AERO COMMANDER</b><br>500 AERO COMMANDER                   | STC-SA340SO<br>COLEMILL ENTERPRISE              | CONTINENTAL IO-520-D, -E<br>300 HP @ 2850 RPM                           | EHC-A3MVF-2B<br>MV7636N*1                    | 76.6"                 | 836-25P            | <b>15</b>            |
| <b>AERO COMMANDER</b><br>500 AERO COMMANDER                   | STC-SA257CE<br>KELLY AEROSPACE POWER<br>SYSTEMS | LYCOMING IO-540-A1A5<br>250 HP @ 2575 RPM                               | HC-A3XK-2<br>7636D                           | 76.6"                 | C-2513-2           | <b>2332</b>          |
| <b>AERO COMMANDER</b><br>500A SHRIKE                          | SA340SO<br>COLEMILL ENT.                        | CONTINENTAL IO-520-E<br>300 HP @ 2850 RPM                               | EHC-G3YF-2UF<br>FC7663-4T                    | 74"                   |                    | <b>2563</b>          |
| <b>AERO COMMANDER</b><br>500 AERO COMMANDER                   | STC-SA257CE<br>CONSOLIDATED                     | LYCOMING IO-540-A1A5<br>250 HP @ 2575 RPM                               | HC-A3VK-2<br>7636D                           | 76.6"                 | C-2513-2           | <b>2333</b>          |
| <b>AERO COMMANDER</b><br>500B, 500S, 500U AERO COMMANDER      | SA 5969NM<br>MERLYN PRODUCTS                    | LYCOMING TIO-540-J2B(D)<br>350 HP @ 2575 RPM                            | HC-C3YR-2UF<br>FC8468D-6R                    | 80" TO 79"            | C-3258-P<br>C-3258 | <b>1894</b>          |
| <b>AERO COMMANDER</b><br>500B, 500S, 500U AERO COMMANDER      | SA 5969NM<br>MERLYN PRODUCTS                    | LYCOMING TIO-540-J2B(D)<br>350 HP @ 2575 RPM                            | HC-C4YR-2<br>FC6660K*1                       | 70"                   | D-4511-P           | <b>1332</b>          |
| <b>AERO COMMANDER</b><br>500B, 500S, 500U AERO COMMANDER      | STC-SA00169SE<br>MERLYN PRODUCTS                | LYCOMING IO-540-M1C5<br>300 HP @ 2700 RPM                               | HC-C3YR-2UF<br>FC8468-6R*2                   | 80" TO 79"            | C-3258<br>C-3258-P | <b>19</b>            |



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|--|---|--|---|-----------------------|---|----------------------|
| <b>AERO COMMANDER</b><br>500U, 500S AERO COMMANDER | STC-SA2478SW<br>MR. RPM                   | LYCOMING IO-720-B1B, -B1BD<br>400 HP @ 2650 RPM      | HC-A3MVK-2A<br>MV8433N-4Q*1<br>MV8433N-4R*1 | 80 5/8"               | C-2513<br>C-2513-P<br>C-2513-2P<br>C-2513-2 | 13                   |
| <b>AERO COMMANDER</b><br>500U, 500S AERO COMMANDER | STC-SA2478SW<br>MR. RPM                   | LYCOMING IO-720-B1B, -B1BD<br>400 HP @ 2650 RPM      | HC-A3VK-2A<br>V8433N-4Q<br>V8433N-4R        | 80 5/8"               | C-2513<br>C-2513-P<br>C-2513-2P<br>C-2513-2 | 2308                 |
| <b>AERO COMMANDER</b><br>500A                      | SR02088SE<br>Palm Beach Aviation Services | Continental IO-520-E<br>285 HP @ 2700 RPM            | PHC-C3YF-2UF<br>FC8468D-8R                  | 78" to 76"            | C-3567-4<br>C-3567-4P                       | 3012                 |
| <b>AERO COMMANDER</b><br>500 AERO COMMANDER        | Unknown                                   | LYCOMING O-540-A2B<br>HP @ RPM                       | HC-A3XK-2B                                  |                       |   | 2334                 |
| <b>AERO COMMANDER</b><br>500 AERO COMMANDER        | Unknown                                   | LYCOMING O-540-A2B<br>HP @ RPM                       | HC-A3VK-2B<br>V7636<br>V7636N               |                       |   | 2335                 |
| <b>AERO COMMANDER</b><br>520 AERO COMMANDER        | 6A1                                       | LYCOMING GO-435-C2, -C2B, -C2B1<br>260 HP @ 2182 RPM | HC-82X20-2, HC-A2X20-2<br>9333C-3           | 90" TO 88"            | 835-1S                                      | 2062                 |
| <b>AERO COMMANDER</b><br>520 AERO COMMANDER        | 6A1                                       | LYCOMING GO-435-C2, -C2B, -C2B1<br>260 HP @ 2182 RPM | HC-82V20-2, HC-A2V20-2<br>V9333C-3          | 90" TO 88"            | 835-1S                                      | 2063                 |
| <b>AERO COMMANDER</b><br>520 AERO COMMANDER        | 6A1                                       | LYCOMING GO-435-C2, -C2B, -C2B1<br>260 HP @ 2182 RPM | HC-A2MV20-2<br>MV9333N-3*1                  | 90" TO 88"            | 835-1S                                      | 22                   |
| <b>AERO COMMANDER</b><br>520 AERO COMMANDER        | 6A1                                       | LYCOMING GO-435-C2, -C2B, -C2B1<br>260 HP @ 2182 RPM | HC-83X20-2, HC-A3X20-2<br>8433              | 84" NO CUT OFF        | 835-10S<br>835-9                            | 2060                 |
| <b>AERO COMMANDER</b><br>520 AERO COMMANDER        | 6A1                                       | LYCOMING GO-435-C2, -C2B, -C2B1<br>260 HP @ 2182 RPM | HC-83V20-2, HC-A3V20-2<br>V8433             | 84" NO CUT OFF        | 835-10S<br>835-9                            | 2061                 |

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|--|--|--|------------------------------------|-----------------------|------------------|----------------------|
| <b>AERO COMMANDER</b><br>520 AERO COMMANDER        | 6A1  | LYCOMING GO-435-C2, -C2B, -C2B1<br>260 HP @ 2182 RPM   | HC-A3MV20-2<br>MV8433N*1           | 84" NO CUT OFF        | 835-10S<br>835-9 | <b>20</b>            |
| <b>AERO COMMANDER</b><br>560 AERO COMMANDER        | 6A1  | LYCOMING GO-480-B, -B1C<br>270 HP @ 2182 RPM           | HC-82X20-2, HC-A2X20-2<br>9333C-3  | 90" TO 88"            | 835-1S           | <b>2064</b>          |
| <b>AERO COMMANDER</b><br>560 AERO COMMANDER        | 6A1  | LYCOMING GO-480-B, -B1C<br>270 HP @ 2182 RPM           | HC-82V20-2, HC-A2V20-2<br>V9333C-3 | 90" TO 88"            | 835-1S           | <b>2065</b>          |
| <b>AERO COMMANDER</b><br>560 AERO COMMANDER        | 6A1  | LYCOMING GO-480-B, -B1C<br>270 HP @ 2182 RPM           | HC-A2MV20-2<br>MV9333N-3*1         | 90" TO 88"            | 835-1S           | <b>23</b>            |
| <b>AERO COMMANDER</b><br>560 AERO COMMANDER        | 6A1  | LYCOMING GO-480-B, -B1C<br>270 HP @ 2182 RPM           | HC-A3X20-2<br>8433                 | 84" NO CUTOFF         |                  | <b>2542</b>          |
| <b>AERO COMMANDER</b><br>560 AERO COMMANDER        | 6A1  | LYCOMING GO-480-B, -B1C<br>270 HP @ 2182 RPM           | HC-A3V20-2<br>V8433N               | 84" NO CUTOFF         |                  | <b>2543</b>          |
| <b>AERO COMMANDER</b><br>560 AERO COMMANDER        | 6A1  | LYCOMING GO-480-B, -B1C<br>270 HP @ 2182 RPM           | HC-A3MV20-2<br>MV8433N             | 84" NOT CUTOFF        |                  | <b>2541</b>          |
| <b>AERO COMMANDER</b><br>560A AERO COMMANDER       | 6A1  | LYCOMING GO-480-D1A, -C1B6, -G1B6<br>275 HP @ 2182 RPM | HC-83V20-2, HC-A3V20-2<br>V8433    | 84.6" TO 84"          | 835-10S<br>835-9 | <b>2068</b>          |
| <b>AERO COMMANDER</b><br>560A AERO COMMANDER       | 6A1  | LYCOMING GO-480-D1A, -C1B6, -G1B6<br>275 HP @ 2182 RPM | HC-83X20-2, HC-A3X20-2<br>8433     | 84.6" TO 84"          | 835-10S<br>835-9 | <b>2067</b>          |
| <b>AERO COMMANDER</b><br>560A AERO COMMANDER       | 6A1  | LYCOMING GO-480-D1A, -C1B6, -G1B6<br>295 HP @ 2182 RPM | HC-A3MV20-2<br>MV8433N*1           | 84.6" TO 84"          | 835-10S<br>835-9 | <b>24</b>            |
| <b>AERO COMMANDER</b><br>560A, 560E AERO COMMANDER | 6A1  | LYCOMING GO-480-C1B6, -G1B6<br>295 HP @ 2182 RPM       | HC-83X20-2, HC-A3X20-2<br>8833-2   | 86.4" TO 86"          | 836-22SPR        | <b>2069</b>          |

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|---|--|---|--|-----------------------|---------------------|----------------------|
| <b>AERO COMMANDER</b><br>560A, 560E AERO COMMANDER      | 6A1                                    | LYCOMING GO-480-C1B6, -G1B6<br>295 HP @ 2182 RPM  | HC-A3V20-2<br>V8833N-2                           | 86.4" TO 86"          | 836-22SPR           | <b>2309</b>          |
| <b>AERO COMMANDER</b><br>560A, 560E AERO COMMANDER      | 6A1                                    | LYCOMING GO-480-C1B6, -G1B6<br>295 HP @ 2182 RPM  | HC-A3MV20-2<br>MV8833N-2<br>MV8833NB-2           | 86.4" TO 86"          | 836-22SPR           | <b>25</b>            |
| <b>AERO COMMANDER</b><br>560-F AERO COMMANDER           | 2A4<br>N/A                             | LYCOMING IGO-540-B1A, -B1C<br>350 HP @ 2182 RPM   | HC-B3Z30-2B<br>9349-6.5                          | 87" NO CUT OFF        | C-2535<br>C-2504    | <b>1561</b>          |
| <b>AERO COMMANDER</b><br>560-F AERO COMMANDER           | 2A4                                    | LYCOMING IGO-540-B1A, -B1C<br>350 HP @ 2182 RPM   | HC-B3Z30-2E(A,B)<br>9349                         | 93.5"                 | C-2535<br>C-2504    | <b>26</b>            |
| <b>AERO COMMANDER</b><br>560 AERO COMMANDER             | STC-SA2-89<br>RYDER-AVIAL              | LYCOMING GO-480-C1D6<br>295 HP @ 3400 RPM         | HC-A3X20-2<br>8433<br>8833-2                     | 86.4"                 | 835-10S             | <b>2336</b>          |
| <b>AERO COMMANDER</b><br>560 AERO COMMANDER             | STC-SA2-89<br>RYDER-AVIAL              | LYCOMING GO-480-C1D6<br>295 HP @ 3400 RPM         | HC-A3V20-2<br>V8433<br>V8433N<br>V8833<br>V8833N | 86.4"                 | 835-10S             | <b>2337</b>          |
| <b>AERO COMMANDER</b><br>680, 680-E, 720 AERO COMMANDER | 2A4                                    | LYCOMING GSO-480-A1A6, -B1A6<br>340 HP @ 2182 RPM | HC-83X20-2, HC-A3X20-2<br>9333C                  | 93.6" TO 93"          | 835-10S<br>836-21SP | <b>2072</b>          |
| <b>AERO COMMANDER</b><br>680, 680-E, 720 AERO COMMANDER | 2A4                                    | LYCOMING GSO-480-A1A6, -B1A6<br>340 HP @ 2182 RPM | HC-A3V20-2<br>V9333C                             | 93.6" TO 93"          | 835-10S<br>836-21SP | <b>2310</b>          |
| <b>AERO COMMANDER</b><br>680, 680-E, 720 AERO COMMANDER | 2A4                                    | LYCOMING GSO-480-A1A6, -B1A6<br>340 HP @ 2182 RPM | HC-A3MV20-2<br>MV9333N*1                         | 93.6" TO 93"          | 835-10S<br>836-21SP | <b>29</b>            |

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|---|--|--|---|--------------------------|------------------|----------------------|
| <b>AERO COMMANDER</b><br>680F, 680FL, 680FLP AERO COMMANDER | 2A4                                    | LYCOMING IGSO-540-B1A, -B1C<br>380 HP @ 2182 RPM   | HC-B3Z30-2E(A,B)<br>9349<br>9349-6.5<br>9349N                   | 93.5" 9349, 87" 9349-6.5 | C-2535<br>C-2504 | <b>30</b>            |
| <b>AERO COMMANDER</b><br>680, 680E, 720 AERO COMMANDER      | SA0077OSE<br>James R. Metzger          | LYCOMING IGSO-480-A1A6, -B1A6<br>340 HP @ 2182 RPM | HC-B3Z20-2A<br>10151-8R<br>10151B-8R<br>10151N-8R<br>10151NB-8R | 93" TO 90"               |                  | <b>1747</b>          |
| <b>AERO COMMANDER</b><br>680, 680E AERO COMMANDER           | STC-SA439WE<br>WESTERN COMMANDER       | LYCOMING IGSO-480-A1D6<br>340 HP @ 2182 RPM        | HC-83X20-2, HC-A3X20-2<br>9333C                                 | 93.6"                    | 836-22S          | <b>2074</b>          |
| <b>AERO COMMANDER</b><br>80, 680E AERO COMMANDER            | STC-SA439WE<br>WESTERN COM.            | LYCOMING IGSO-480-A1D6<br>340 HP @ 3400 RPM        | HC-A3X20-2<br>9333C   | 93.6"                    | 836-22S          | <b>2338</b>          |
| <b>AERO COMMANDER</b><br>680, 680E AERO COMMANDER           | STC-SA439WE<br>WESTERN COMMANDER       | LYCOMING IGSO-480-A1D6<br>340 HP @ 2182 RPM        | HC-83V20-2, HC-A3V20-2<br>V9333C                                | 93.6"                    | 836-22S          | <b>2075</b>          |
| <b>AERO COMMANDER</b><br>680, 680E AERO COMMANDER           | STC-SA439WE<br>WESTERN COMMANDER       | LYCOMING IGSO-480-A1D6<br>340 HP @ 2182 RPM        | HC-A3MV20-2<br>MV9333N*1  | 93.6"                    | 836-22S          | <b>33</b>            |
| <b>AERO COMMANDER</b><br>680F AERO COMMANDER                | STC-SA2691WE<br>MR. RPM                | LYCOMING IO-720-B1B(D)<br>400 HP @ 2650 RPM        | HC-A3XK-2A<br>8433  | 84.6"                    | C-2513-2P        | <b>2070</b>          |
| <b>AERO COMMANDER</b><br>680F AERO COMMANDER                | STC-SA2691WE<br>MR. RPM                | LYCOMING IO-720-B1B(D)<br>400 HP @ 2650 RPM        | HC-A3VK-2A<br>V8433<br>V8433N<br>V8433NB-6Q                     | 84.6"                    | C-2513-2P        | <b>2071</b>          |
| <b>AERO COMMANDER</b><br>680F AERO COMMANDER                | STC-SA2691WE<br>MR. RPM                | LYCOMING IO-720-B1B(D)<br>400 HP @ 2650 RPM        | HC-A3MVK-2A<br>MV8433N*1  | 84.6"                    | C-2513-2P        | <b>28</b>            |

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|--|--|---|--|-----------------------|--------------------|----------------------|
| <b>AERO COMMANDER</b><br>680FL(P) AERO COMMANDER               | STC-SA2891WE<br>MR. RPM                | LYCOMING IO-720-B1B(D)<br>400 HP @ 2650 RPM         | HC-A3VK-2A   | 84.6"                 | C-2513-2P          | <b>2073</b>          |
| <b>AERO COMMANDER</b><br>680FL(P) AERO COMMANDER               | STC-SA2891WE<br>MR. RPM                | LYCOMING IO-720-B1B(D)<br>400 HP @ 2650 RPM         | HC-A3MVK-2A<br>MV8433N*1   | 84.6"                 | C-2513-2P          | <b>32</b>            |
| <b>AERO COMMANDER</b><br>680T, 680V, 681 AERO COMMANDER        | STC-SA924NW/1184NW<br>AERO AIR         | HONEYWELL TPE331-43B, -43L<br>575 HP @ 2000 RPM     | HC-B3TN-5K<br>T10178B-13Q<br>T10178NB-13Q  | 88.5"                 | 836-61             | <b>31</b>            |
| <b>AERO COMMANDER</b><br>680F AERO COMMANDER                   | Experimental<br>PICKETT AVIATION       | LYCOMING IO-720-B1B<br>400 HP @ 2650 RPM            | HC-A3MVK-2A<br>MV8433NB-6Q   | 78.625"               |                    | <b>34</b>            |
| <b>AERO COMMANDER</b><br>685 AERO COMMANDER                    | 2A4                                    | CONTINENTAL GTSIO-520-F, -K<br>435 HP @ 2267 RPM    | HC-H3YN-2(U)(F)<br>FC8475+2<br>FC8475B+2   | 88" TO 87"            | D-3273-1           | <b>35</b>            |
| <b>AERO COMMANDER</b><br>690, A, B TURBO COMMANDER             | 2A4                                    | HONEYWELL TPE331-5-251K, -252K<br>840 HP @ 1591 RPM | HC-B3TN-5DL, FL, NL<br>LT10282+4<br>LT10282A+4<br>LT10282AB+4<br>LT10282B+4*1<br>LT10282NB+4*1 | 106.5" TO 105.0"      | 836-57P            | <b>36</b>            |
| <b>AERO COMMANDER</b><br>690, 690A, 690B TURBO COMMANDER       | STC-SA546GL<br>GULFSTREAM AMERICAN     | HONEYWELL TPE331-5-251K<br>840 HP @ 1591 RPM        | HC-B3TN-5DL, -5FL, -5NL<br>LT10673B<br>LT10673NB   | 106.0" TO 105.0"      | 836-57P            | <b>39</b>            |
| <b>AERO COMMANDER</b><br>690, 690A, 690B, 690C TURBO COMMANDER | STC-SA1464NM<br>AERO AIR               | HONEYWELL TPE331-5-254K<br>715 HP @ 1591 RPM        | HC-B3TN-5FL<br>LT10673-2Q<br>LT10673B-2Q<br>LT10673N-2Q  | 104"                  | 836-57P<br>D-7330P | <b>37</b>            |

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|--|--|--|---|-----------------------|--------------------|----------------------|
| <b>AERO COMMANDER</b><br>690, 690A, 690B TURBO COMMANDER       | STC-SA1464NM<br>AERO AIR               | HONEYWELL TPE331-10T-512K, -515K, -516K<br>717 HP @ 1607 RPM   | HC-B3TN-5FL<br>LT10673-2Q<br>LT10673B-2Q<br>LT10673N-2Q<br>LT10673NB-2Q | 104.0"                | 836-57P<br>D-7330P | 1362                 |
| <b>AERO COMMANDER</b><br>695, 695A, 695B, 690D TURBO COMMANDER | STC-SA2380NM<br>AERO AIR               | HONEYWELL TPE331-10-501K, -511K<br>820 HP @ 1591 RPM           | HC-B3TN-5FL, -5NL<br>LT10876ANS-2Q<br>LT10876ANSB-2Q<br>LT10876AS-2Q    | 106.5" NO CUT OFF     | 836-57P<br>D-7330P | 40                   |
| <b>AERO COMMANDER (CALLAIR)</b><br>B1 (CALLAIR)                | A7WE, A8WE                             | LYCOMING IO-720-A1A<br>400 HP @ 2650 RPM                       | HC-A3VK-4<br>V8433-4<br>V8433N-4  | 80.6" TO 78"          | C-2513-2           | 2076                 |
| <b>AERO COMMANDER (CALLAIR)</b><br>B1 (CALLAIR)                | A7WE, A8WE                             | LYCOMING IO-720-A1A<br>400 HP @ 2650 RPM                       | HC-A3MVK-4<br>MV8433N-4   | 80.6" TO 78"          | C-2513-2           | 41                   |
| <b>AERO COMMANDER (CALLAIR)</b><br>B1A (CALLAIR)               | A7WE, A8WE                             | PRATT & WHITNEY R985-AN1, AN3, AN14B, 1B5<br>450 HP @ 2300 RPM | HA-B3Z30-1<br>10160-6<br>10160N-6                                       | 95" NO CUT OFF        | 836-16R            | 42                   |
| <b>AERO COMMANDER 200, 400</b><br>see PROP JETS INC.           |  | HP @ RPM   |   |                       |                    | 43                   |
| <b>AERO COMMANDER 700</b><br>see FUJI 700                      |  | HP @ RPM   |   |                       |                    | 44                   |
| <b>AERO COMMANDER THRUSH</b><br>see AYRES                      |  | HP @ RPM   |   |                       |                    | 45                   |
| <b>AERO ENGINES</b><br>AIRCROISER                              | Unknown                                | CONTINENTAL IO-360-D<br>210 HP @ 2800 RPM                      | BHC-C2YF-1BF<br>F7663   | 74"                   | 835-23             | 47                   |

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|---|--|--|--|-----------------------|-----------------|----------------------|
| <b>AERO MERCANTILE</b><br>see EL GAVILAN S.A. |  | HP @ RPM   |  |                       |                 | <b>48</b>            |
| <b>AERO VODOCHODY</b><br>Ae 270 IBIS          | Unknown                                | PRATT & WHITNEY PT6A-66A<br>850 HP @ 2000 RPM              | HC-E4N-3P<br>D9511FASK                     | 96"                   | D-630-3P        | <b>2506</b>          |
| <b>AEROCAR</b><br>1                           | 4A16                                   | LYCOMING O-320, O-340-R1A(2420/154hp)<br>143 HP @ 2300 RPM | HA-12UF<br>L8032-4                         | 76" TO 74.5"          |                 | <b>49</b>            |
| <b>AEROCAR</b><br>1                           | 4A16                                   | LYCOMING O-360-D2B<br>160 HP @ 2500 RPM                    | HA-12UF<br>L8032-8                         | 72" TO 70.5"          |                 | <b>50</b>            |
| <b>AEROCAR</b><br>COOT AMPHIBIAN              | Experimental                           | LYCOMING O-320-A<br>150 HP @ 2700 RPM                      | HC-C2YL-1BLF<br>FL7663-6R                  | 70"                   |                 | <b>51</b>            |
| <b>AEROCAR</b><br>COOT AMPHIBIAN              | Experimental                           | FRANKLIN 6A-350-C1<br>220 HP @ 2800 RPM                    | HC-C2YF-1BLF<br>FL8459A-8Q                 | 76"                   |                 | <b>52</b>            |
| <b>AEROCAR</b><br>COOT AMPHIBIAN              | Experimental                           | FRANKLIN 6A-335-A<br>180 HP @ 2800 RPM                     | HC-C2YF-1BLF<br>FL8459A-10                 | 74"                   |                 | <b>53</b>            |
| <b>AEROCAR</b><br>COOT AMPHIBIAN              | Experimental                           | LYCOMING O-360-( )<br>180 HP @ 2700 RPM                    | HC-C2YK-1BLF<br>FL7666A-2                  | 74"                   |                 | <b>54</b>            |
| <b>AEROCAR</b><br>COOT AMPHIBIAN              | Experimental                           | FRANKLIN 6-335<br>180 HP @ 2800 RPM                        | HC-C3YF-1RLF<br>FL7663-10                  | 66"                   | 835-38          | <b>55</b>            |
| <b>AEROFAB</b><br>see LAKE                    |  | HP @ RPM   |  |                       |                 | <b>56</b>            |
| <b>AEROMERE S.A.</b><br>F.8.L FALCO           | 7A11                                   | LYCOMING O-320-A1A<br>150 HP @ 2700 RPM                    | HC-82XL-1, HC-A2XL-1, HC-82XL-1F<br>7636-4 | 72.2" TO 70"          | 835-30<br>835-6 | <b>2077</b>          |

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| <b>AEROMERE S.A.</b><br>F.8.L FALCO          | 7A11                                   | LYCOMING O-320-A1A<br>150 HP @ 2700 RPM                         | HC-82VL-1, HC-A2VL-1, HC-82VL-1F<br>V7636D-4 | 72.2" TO 70"          | 835-30<br>835-6            | <b>2078</b>          |
| <b>AEROMERE S.A.</b><br>F.8.L FALCO          | 7A11                                   | LYCOMING O-320-A1A<br>150 HP @ 2700 RPM                         | HC-A2MVL-1<br>MV7636N-4                      | 72.2" TO 70"          | 835-30<br>835-6            | <b>58</b>            |
| <b>AEROMERE S.A.</b><br>F.8.L FALCO          | 7A11                                   | LYCOMING O-320-A1A<br>150 HP @ 2700 RPM                         | HC-C2YL-1BF<br>F7663-4                       | 72" TO 70"            | A-3519<br>835-33<br>835-20 | <b>59</b>            |
| <b>AERONCA</b><br>15AC, S15AC AeroSedan      | SA02552AK<br>BURL'S AIRCRAFT           | LYCOMING O-360-A1A, A1D, A1F, A1F6,<br>A1P<br>180 HP @ 2700 RPM | HC-C2YR-1N<br>NG8301-3                       | 80                    | C-3568-P<br>C-3568         | <b>3514</b>          |
| <b>AERONCA</b><br>see AMERICAN CHAMPION      |  | HP @ RPM  |  |                       |                            | <b>1493</b>          |
| <b>AERONCA</b><br>15AC SEDAN                 | SA302NW<br>BURL'S AIRCRAFT             | LYCOMING O-360-A1A<br>180 HP @ 2700 RPM                         | HC-C2YR-1BF<br>F7666A                        | 76 TO 72              | 835-33                     | <b>2627</b>          |
| <b>AERONCA</b><br>15AC SEDAN                 | SA02197AK<br>BURL'S AIRCRAFT           | LYCOMING O-360-A1A, A1D, A1F, A1F6,<br>A1P<br>180 HP @ 2700 RPM | HC-C2YR-1BF<br>F8477-4                       | 80 TO 78              | C-3568-P<br>C-3568         | <b>2628</b>          |
| <b>AERONCA AIRCRAFT CORP.</b><br>15AC        | A-802                                  | CONTINENTAL C-145-2 with "D" s/n suffix<br>145 HP @ 2700 RPM    | HA-12UF-3<br>8032-6                          | 74.0" TO 72.0"        |                            | <b>63</b>            |
| <b>AERONCA AIRCRAFT CORP.</b><br>15AC, S15AC | STC-SA548CE<br>JOHN R HARDY            | CONTINENTAL IO-346-B<br>165 HP @ 2700 RPM                       | HC-C2YF-1BF<br>F7663                         | 76"                   |                            | <b>64</b>            |
| <b>AERONCA AIRCRAFT CORP.</b><br>O-58B       | A-751                                  | CONTINENTAL A-65-8<br>65 HP @ 2300 RPM                          | HA-12U<br>7214M<br>7414                      | 74" TO 72"            |                            | <b>65</b>            |



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| <b>AERONCA AIRCRAFT CORP.</b><br>65-()   | A728                                       | HP @ RPM   | HA-12U<br>7214M<br>7414             | 74" TO 72"            |                 | <b>66</b>            |
| <b>AERONORTEC</b><br>see NORMAN AEROPLANE  |  | HP @ RPM   |                                     |                       |                 | <b>67</b>            |
| <b>AEROSPACE TECHNOLOGIES</b><br>N22B, N24A, N22S, N22C NOMAD                            | A7PC                                       | ALLISON 250-B17B, -B17C,E,F (420hp)<br>400 HP @ 2030 RPM | HC-A3VF-7, HC-A3VF-7B<br>V10133N-11 | 90.63" TO 88.0"       | 835-39          | <b>2316</b>          |
| <b>AEROSPACE TECHNOLOGIES</b><br>N22B, N24A, N22S, N22C NOMAD                            | A7PC                                       | ALLISON 250-B17B, -B17C,E,F (420hp)<br>400 HP @ 2030 RPM | HC-A3MV-7B<br>MV10133N-11           | 90.63" TO 88.0"       | 835-39          | <b>521</b>           |
| <b>AEROSPATIALE</b><br>GA7 COUGAR  | A17SO                                      | LYCOMING O-320-D1D<br>160 HP @ 2700 RPM                  | HC-F2YL-2UF<br>FC7663D-3            | 73" TO 72"            | D-4532-2        | <b>571</b>           |
| <b>AEROSPATIALE (MORANE SAULNIER)</b><br>235C, E RALLYE 235C, E                          | 7A14                                       | LYCOMING O-540-B4B5<br>235 HP @ 2575 RPM                 | HC-C2YK-1BF<br>F8468A-4             | 80.0" TO 77.0"        | 835-33          | <b>69</b>            |
| <b>AEROSPATIALE (MORANE SAULNIER)</b><br>MS893A, E , 180GT RALLYE<br>COMMODORE,180GT     | 7A14                                       | LYCOMING O-360-A1A<br>180 HP @ 2700 RPM                  | HC-C2YK-1B(F)<br>F7666A-2           | 74" TO 72"            | 835-33          | <b>70</b>            |
| <b>AEROSPATIALE (MORANE SAULNIER)</b><br>MS 894A, MS 894E RALLYE MINERVA<br>220, MS 894E | 7A14                                       | FRANKLIN 6A-350-C1<br>220 HP @ 2800 RPM                  | HC-C2YF-1B(F)<br>F8459-4            | 80.0" TO 76.0"        |                 | <b>71</b>            |
| <b>AEROSPATIALE (SOCATA)</b><br>TB-9 TAMPICO   | A51EU                                      | LYCOMING O-320-D1A<br>160 HP @ 2700 RPM                  | HC-C2YL-1BF<br>F7663A-4             | 72" TO 70"            |                 | <b>72</b>            |
| <b>AEROSPATIALE (SOCATA)</b><br>TB-21 TRINIDAD TC  | A51EU                                      | LYCOMING TIO-540-AB1AD<br>250 HP @ 2575 RPM              | HC-C2YK-1BF<br>F8477-4<br>F8477K-4  | 80.0" TO 78.0"        |                 | <b>1350</b>          |
| <b>AEROSPATIALE (SOCATA)</b><br>TB-30 EPSILON  | Unknown                                    | LYCOMING AEIO-540-L1B5D<br>300 HP @ 2700 RPM             | HC-C2YR-4CF<br>FC8475-6*3           | 78" TO 76"            |                 | <b>77</b>            |

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| <b>AEROSPATIALE (SOCATA)</b><br>TB-10 TOBAGO                                | A51EU                                  | LYCOMING O-360-A1AD<br>180 HP @ 2700 RPM                          | HC-C2YK-1BF<br>F7666A-2                  | 74.0" TO 72.0"        |                                    | 73                   |
| <b>AEROSPATIALE (SOCATA)</b><br>TB-20 TRINIDAD                              | A51EU                                  | LYCOMING IO-540-C4D5D<br>250 HP @ 2575 RPM                        | HC-C2YK-1BF<br>F8477-4<br>F8477K-4       | 80" TO 78"            |                                    | 74                   |
| <b>AEROSPATIALE (SOCATA)</b><br>TB-20 TRINIDAD                              | STC SA01192CH<br>HARTZELL PROPELLER    | LYCOMING IO-540-C4D5D<br>250 HP @ 2575 RPM                        | HC-C3YR-1RF<br>F7693F*2<br>F7693FB*1     | 78-76                 | A-2295-3P<br>A-2295-3<br>A-2295-14 | 1699                 |
| <b>AEROSPATIALE (SOCATA)</b><br>TB-200 TOBAGO XL                            | A51EU                                  | LYCOMING IO-360-A1B6<br>200 HP @ 2700 RPM                         | HC-C2YK-1BF<br>F7666A-2                  | 74" TO 72"            |                                    | 75                   |
| <b>AEROSPATIALE (SOCATA)</b><br>TBM 700, TBM 850                            | A60EU                                  | PRATT & WHITNEY PT6A-64, PT6A-66D<br>700 HP @ 2000 RPM            | HC-E4N-3<br>E9083SK                      | 91.0" TO 90.0"        | D-630-1<br>D-630-1P                | 79                   |
| <b>AEROSTAR AIRCRAFT</b><br>PA-60-600, 601, 601P, 602P (LEFT SIDE) AEROSTAR | STC-SA1658NM<br>MACHEN INC.            | LYCOMING TIO-540-J2BD-MA<br>350 HP @ 2575 RPM                     | HC-C4YR-2<br>FC6660                      | 70"                   | D-4511-P<br>D-4511                 | 2517                 |
| <b>AEROSTAR AIRCRAFT</b><br>PA-60-601 AEROSTAR                              | SA1658NM<br>MACHEN INC.                | LYCOMING LTIO-540-U2A<br>350 HP @ 2500 RPM                        | HC-C3YR-2LUF<br>FJC8468DB-14*1           | 72"                   | C-3258-LP<br>C-3258-L              | 2518                 |
| <b>AEROSTAR AIRCRAFT CORP.</b><br>360 AEROSTAR                              | A11WE                                  | LYCOMING IO-360-E1A<br>180 HP @ 2700 RPM                          | HC-92WK-2B<br>W8447-12R                  | 71.6" TO 71"          | 835-30                             | 999                  |
| <b>AEROSTAR AIRCRAFT CORP.</b><br>400 AEROSTAR                              | A11WE                                  | LYCOMING IO-360-D1A<br>200 HP @ 2700 RPM                          | HC-C3YR-2<br>FC7663-6                    | 72" TO 71"            | C-3258                             | 1000                 |
| <b>AEROSTAR AIRCRAFT CORP.</b><br>PA-60-600, 601, 601P AEROSTAR             | A17WE                                  | LYCOMING IO-540-K1F5,-G1B5,-S1A5,-K1J5,-P1A5<br>290 HP @ 2575 RPM | HC-C3YR-2UF<br>FC8468-8R<br>FC8468B-8R*2 | 78" NO CUT OFF        | C-3258-P                           | 875                  |

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|--|--|---|--|-----------------------|-----------------------|----------------------|
| <b>AEROSTAR AIRCRAFT CORP.</b><br>PA-60-600, 601, 601P AEROSTAR                    | STC-SA4307NM<br>MACHEN INC.            | LYCOMING IO-540-K1F5, -K1J5, S1A5<br>300 HP @ 2700 RPM            | HC-C3YR-2UF<br>FC8468D-14<br>FC8468DB-14*1                         | 72"                   | C-3258-P              | <b>884</b>           |
| <b>AEROSTAR AIRCRAFT CORP.</b><br>PA-60-600, 601, 601P, 602P AEROSTAR              | STC-SA1658NM<br>MACHEN INC.            | LYCOMING IO-540-S1A5-MM, -AA1A5-MM<br>350 HP @ 2500 RPM           | HC-C3YR-2UF<br>FC8468D-14<br>FC8468DB-14*1                         | 72"                   | C-3258<br>C-3258-P    | <b>883</b>           |
| <b>AEROSTAR AIRCRAFT CORP.</b><br>PA-60-600, 601, 601P, 602P AEROSTAR              | STC-SA4156NM<br>MERLYN PRODUCTS        | LYCOMING IO-540-S1A5, -AA1A5<br>350 HP @ 2500 RPM                 | HC-C3YR-2UF<br>FC6660D   | 68.25" TO 67"         | C-3258-P              | <b>887</b>           |
| <b>AEROSTAR AIRCRAFT CORP.</b><br>PA-60-600, -601P, -602P AEROSTAR                 | SA 4156NM<br>MERLYN PRODUCTS           | LYCOMING IO-540-K1F5,-G1B5,-S1A5,-K1J5,-P1A5<br>290 HP @ 2575 RPM | HC-C3YR-2UF<br>FC8468B-8R*2  | 78" NO CUT OFF        | C-3258-P              | <b>1870</b>          |
| <b>AEROSTAR AIRCRAFT CORP.</b><br>PA-60-600, 601, 601P, 602P AEROSTAR              | STC-SA4156NM<br>MERLYN PRODUCTS        | LYCOMING TIO-540-J2BD, LTIO-540-J2BD<br>350 HP @ 2575 RPM         | HC-C3YR-2UF, -2LUF<br>FC6660D<br>FC6660DB<br>FJC6660D<br>FJC6660DB | 68.25" TO 67"         | C-3258-P              | <b>886</b>           |
| <b>AEROSTAR AIRCRAFT CORP.</b><br>PA-60-600, 601, 601P, 602P AEROSTAR              | STC-SA980NW<br>MACHEN INC.             | LYCOMING TIO-540-J2BD, LTIO-540-J2BD<br>350 HP @ 2575 RPM         | HC-C3YR-2UF, -2LUF<br>FC8468D-14<br>FJC8468D-14*1                  | 72" TO 71"            | C-3258-P<br>C-3258-LP | <b>880</b>           |
| <b>AEROSTAR AIRCRAFT CORP.</b><br>PA-60-600, 601, 601P, 602P (RIGHT SIDE) AEROSTAR | STC-SA1658NM<br>MACHEN INC.            | LYCOMING LTIO-540-J2BD-MA<br>350 HP @ 2575 RPM                    | HC-C4YR-2L<br>FJC6660  | 70"                   | D-4511-L<br>D-4511-LP | <b>885</b>           |
| <b>AEROSTAR AIRCRAFT CORP.</b><br>PA-60-601P AEROSTAR                              | STC-SA980NW<br>MACHEN INC.             | LYCOMING TIO-540-R2AD, LTIO-540-R2AD<br>350 HP @ 2575 RPM         | HC-C3YR-2UF, -2LUF<br>FC8468-10Q<br>FJC8468-10Q                    | 76"                   | C-3258-P<br>C-3258-LP | <b>882</b>           |

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| <b>AEROSTAR AIRCRAFT CORP.</b><br>PA-60-602P AEROSTAR              | A17WE                                  | LYCOMING IO-540-AA1A5<br>290 HP @ 2425 RPM                           | HC-C3YK-2UF<br>FC8468-8R<br>FC8468B-8R*2           | 78" NO CUT OFF        | C-3258-P        | 876                  |
| <b>AEROSTAR AIRCRAFT CORP.</b><br>PA-60-602P AEROSTAR              | STC-SA3589NM<br>MACHEN INC.            | LYCOMING TIO-540-AA1A5<br>305 HP @ 2425 RPM                          | HC-C3YR-2UF<br>FC8468D-14<br>FC8468DB-14*1         | 72"                   | C-3258-P        | 879                  |
| <b>AEROSTAR AIRCRAFT CORP.</b><br>PA-60-700P (left side) AEROSTAR  | A17WE                                  | LYCOMING LTIO-540-U2A<br>350 HP @ 2500 RPM                           | HC-C3YR-2LUF<br>FJC7451<br>FJC7451B                | 76" TO 75"            | D-4816-P        | 877                  |
| <b>AEROSTAR AIRCRAFT CORP.</b><br>PA-60-700P (right side) AEROSTAR | A17WE                                  | LYCOMING TIO-540-U2A<br>350 HP @ 2500 RPM                            | HC-C3YR-2UF<br>FC7451<br>FC7451B                   | 76" TO 75"            | D-4816-P        | 878                  |
| <b>AEROTEC</b><br>see AVIAT  |  | HP @ RPM   |  |                       |                 | 81                   |
| <b>AEROTEK II, INC. (CALLAIR)</b><br>B1A CALLAIR                   | A7WE, A8WE                             | PRATT & WHITNEY R985-AN-1, AN-3,<br>AN-14B, 1B5<br>450 HP @ 2300 RPM | HC-B3R30-4, -4B<br><br>R10152-5.5R<br>R10152N-5.5R | 95.5" NO CUT OFF      | 836-32R         | 1589                 |
| <b>AGUSTA</b><br>see SIAI MARCHETTI                                |  | HP @ RPM   |  |                       |                 | 103                  |
| <b>AIR &amp; SPACE</b><br>18, 18A                                  | 1H17                                   | LYCOMING O-360-A1D<br>180 HP @ 2700 RPM                              | HC-92ZK-8L<br>L8447A-8<br>L8447AN-8                | 76"                   | 835-6P          | 82                   |
| <b>AIR &amp; SPACE</b><br>18A                                      | 1H17                                   | LYCOMING O-360-A1D<br>200 HP @ 2700 RPM                              | HC-C2YK-1BLF<br>FL7666AS                           | 76.0" TO 75.0"        |                 | 84                   |
| <b>AIR &amp; SPACE</b><br>18, 18A                                  | STC-SH156GL<br>FARRINGTON A/C CORP     | LYCOMING O-360-A1D<br>180 HP @ 2700 RPM                              | HC-C3YR-1RLF<br>FL7663-4R                          | 76"                   |                 | 83                   |

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| <b>AIR TRACTOR</b><br>AT-301, AT-302                                    | SA7610SW<br>Bailey Flying Service                 | HONEYWELL TPE331-6<br>700 HP @ 2000 RPM                         | HC-B3TN-5M<br>T10282N+4  | 106.5" TO 102.0"      | D-3434-1P<br>D-3434-1   | <b>3027</b>          |
| <b>AIR TRACTOR</b><br>AT-402, AT-402B, AT-502, AT-502B, AT-503A, AT-504 | SA03439CH<br>AERO INNOVATIONS                     | Pratt & Whitney PT6A (see Notes)<br>750 HP @ 2200 RPM           | HC-B4TN-3C<br>T10702NS   | 108"-107"             | D-3434-18P<br>D-3434-18 | <b>3484</b>          |
| <b>AIR TRACTOR</b><br>AT-502, AT-502B                                   | Experimental<br>Cascade Aircraft Conversions, LLC | Pratt & Whitney PT6A (See note.)<br>850 HP @ 2000 RPM           | HC-B4TN-3C<br>T10702NS   | 108"-107"             | D-3434-18P<br>D-3434-18 | <b>3535</b>          |
| <b>AIR TRACTOR</b><br>AT-502A   | A17SW   | Pratt & Whitney PT6A-140AG<br>867 HP @ 1900 RPM                 | HC-B4TN-3C<br>T10702NS   | 108"-107"             | D-3434-18P<br>D-3434-18 | <b>3340</b>          |
| <b>AIR TRACTOR</b><br>AT-802  | SA01852SE<br>Flight Doctor West LLC               | HONEYWELL TPE331-14GR<br>1650 HP @ 1552 RPM                     | HC-B5MA-5H<br>M11693NS   | 118.7"                | E-5760-P<br>E-5760      | <b>2952</b>          |
| <b>AIR TRACTOR</b><br>AT-301, AT-302, AT-401 AIR TRACTOR                | STC-SA8118SW<br>FARM & RANCH                      | HONEYWELL TPE331-1-101Z<br>600 HP @ 2000 RPM                    | HC-B3TN-5C, -5M<br>T10282+4<br>T10282N+4                       | 106.5"                | C-3043-3P               | <b>96</b>            |
| <b>AIR TRACTOR</b><br>AT-302 AIR TRACTOR                                | A9SW  | LYCOMING LTP-101-600A-1A<br>599 HP @ 1950 RPM                   | HC-B3TN-3G<br>T10282+6<br>T10282N+6                            | 108.25" TO 106.5"     | C-3065                  | <b>86</b>            |
| <b>AIR TRACTOR</b><br>AT-400 AIR TRACTOR                                | A9SW  | PRATT & WHITNEY PT6A-15AG, -27, -34, -34AG<br>680 HP @ 2200 RPM | HC-B3TN-3D<br>T10282+4<br>T10282N+4<br>T10282NS+4<br>T10282S+4 | 106.5" TO 102.0"      | C-3065<br>C-3065-P      | <b>88</b>            |

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| <b>AIR TRACTOR</b><br>AT-400A AIR TRACTOR              | A9SW                                     | PRATT & WHITNEY PT6A-15AG,20(A,B),-21,-27,-34(AG)<br>550 HP @ 2200 RPM    | HC-B3TN-3D<br>T10282+4<br>T10282N+4<br>T10282NS+4<br>T10282S+4 | 106.5" TO 102.0"      | C-3065<br>C-3065-P                            | <b>89</b>            |
| <b>AIR TRACTOR</b><br>AT-401/402                       | SA01528CH<br>TURBINE CONVERSIONS, LTD    | WALTER M601E-11<br>777 HP @ 2080 RPM                                      | HC-B3TW-3<br>T10282NS+4  |                       | D-3434-6<br>D-3434-6P                         | <b>1763</b>          |
| <b>AIR TRACTOR</b><br>AT-300, AT-400 SERIES (see note) | STC SA00888SE<br>CASCADE FLYING SERVICES | WALTER M601E-11<br>777 HP @ 2080 RPM                                      | HC-B3TW-3<br>T10282N+4   |                       | D-3434-6<br>D-3434-6P                         | <b>1770</b>          |
| <b>AIR TRACTOR</b><br>AT-402 AIR TRACTOR               | A17SW                                    | PRATT & WHITNEY PT6A-15AG,-34(AG),-27<br>680 HP @ 2200 RPM                | HC-B3TN-3D<br>T10282+4<br>T10282N+4<br>T10282NS+4<br>T10282S+4 | 106.5" TO 102.0"      | C-3065<br>C-3065-P                            | <b>90</b>            |
| <b>AIR TRACTOR</b><br>AT-402A AIR TRACTOR              | A17SW                                    | PRATT & WHITNEY PT6A-11, -11AG, -20, -20A, -20B, -21<br>550 HP @ 2200 RPM | HC-B3TN-3D<br>T10282+4<br>T10282N+4<br>T10282NS+4<br>T10282S+4 | 106.5" TO 102.0"      | C-3065<br>C-3065-P                            | <b>1078</b>          |
| <b>AIR TRACTOR</b><br>AT-402B AIR TRACTOR              | A17SW                                    | PRATT & WHITNEY PT6A-15AG, -27, -34(AG)<br>680 HP @ 2200 RPM              | HC-B3TN-3D<br>T10282+4<br>T10282N+4<br>T10282NS+4              | 106.5" TO 102.0"      | C-3065<br>C-3065-P<br>D-3434-17P<br>D-3434-17 | <b>1068</b>          |
| <b>AIR TRACTOR</b><br>AT-501, AT-502 AIR TRACTOR       | EXPERIMENTAL<br>TURBINE CONVERSIONS, LTD | WALTER M601E-11<br>751 HP @ 2080 RPM                                      | HC-B3TW-3<br>T10282NS+4  |                       | D-3434-6<br>D-3434-6P                         | <b>1863</b>          |

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|---|--|--|--|-----------------------|-------------------------------------|----------------------|
| <b>AIR TRACTOR</b><br>AT-502 AIR TRACTOR          | A17SW                                  | PRATT & WHITNEY PT6A-34,-34AG, -34B, -36, 15AG, -27<br>750 HP @ 2200 RPM   | HC-B3TN-3D<br>T10282+4<br>T10282N+4<br>T10282NS+4<br>T10282S+4     | 106.5" TO 102"        | C-3065<br>C-3065-P                  | <b>92</b>            |
| <b>AIR TRACTOR</b><br>AT-502A AIR TRACTOR         | A17SW                                  | PRATT & WHITNEY PT6A-45R, 45A, -45B<br>1100 HP @ 1700 RPM                  | HC-B5MP-3C<br>M10876ANS  | 111.2" TO 110.7"      | D-3434-8P<br>D-3434-8               | <b>1059</b>          |
| <b>AIR TRACTOR</b><br>AT-502A AIR TRACTOR         | A17SW                                  | PRATT & WHITNEY PT6A-45A, -45B, -45R<br>1100 HP @ 1700 RPM                 | HC-B5MP-3A<br>M10282A+6<br>M10282AN+6<br>M10282ANS+6<br>M10282AS+6 | 111.2" TO 110.7"      | D-3434-8P<br>D-3434-8               | <b>1217</b>          |
| <b>AIR TRACTOR</b><br>AT-502B, AT-504 AIR TRACTOR | A17SW                                  | PRATT & WHITNEY PT6A-15AG, -27, -34, -34AG, -34B, -36<br>750 HP @ 2200 RPM | HC-B3TN-3D<br>T10282+4<br>T10282N+4<br>T10282NS+4                  | 106.5" to 102"        | D-3434-17P<br>D-3434-6<br>D-3434-6P | <b>1069</b>          |
| <b>AIR TRACTOR</b><br>AT-502B -                   | Wayne Hanson                           | Pratt & Whitney PT6A-34AG<br>750 HP @ 1900 RPM                             | HC-B4TN-3C<br>T10282NS   | 103"                  | D-3434-18P<br>D-3434-18             | <b>2820</b>          |
| <b>AIR TRACTOR</b><br>AT-503 AIR TRACTOR          | A17SW                                  | PRATT & WHITNEY PT6A-45R<br>1100 HP @ 1700 RPM                             | HC-B5MP-3C<br>M10876ANS<br>M10876AS                                | 111.2" TO 110.7"      | D-3434-8P                           | <b>93</b>            |
| <b>AIR TRACTOR</b><br>AT-503A AIR TRACTOR         | A17SW                                  | PRATT & WHITNEY PT6A-34, -34AG<br>750 HP @ 2200 RPM                        | HC-B3TN-3D<br>T10282+4<br>T10282N+4<br>T10282NS+4                  | 106.5" TO 102"        | C-3065<br>C-3065-P                  | <b>1079</b>          |

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| <b>AIR TRACTOR</b><br>AT-602 AIR TRACTOR | A19SW                                  | PRATT & WHITNEY PT6A-45R, -60AG, -65AR, -65B, -65R, -65AG<br>1050 HP @ 1700 RPM | HC-B5MP-3C<br>M10876ANS<br>M10876AS                    | 111.2" TO 110.7       | D-3434-8P<br>D-3434-8                            | <b>1442</b>          |
| <b>AIR TRACTOR</b><br>AT-802 AIR TRACTOR | A19SW                                  | PRATT & WHITNEY PT6A-65AG<br>1295 HP @ 1700 RPM                                 | HC-B5MP-3F<br>M11276NS                                 | 115.2" TO 114.7"      | E-7256-P<br>E-7256                               | <b>1642</b>          |
| <b>AIR TRACTOR</b><br>AT-802 AIR TRACTOR | A19SW                                  | PRATT & WHITNEY PT6A-65R, -65AG<br>1295 HP @ 1700 RPM                           | HC-B5MP-3C<br>M10876ANS<br>M10876AS                    | 111.2" TO 110.7       | D-3434-21P<br>D-3434-21<br>D-3434-8P<br>D-3434-8 | <b>95</b>            |
| <b>AIR TRACTOR</b><br>AT-802 AIR TRACTOR | A19SW                                  | PRATT & WHITNEY PT6A-67R, -67AF, -67AG<br>1424 HP @ 1700 RPM                    | HC-B5MA-3D<br>M11276<br>M11276N<br>M11276NS<br>M11276S | 115.2" TO 114.7"      | D-5497-P   | <b>94</b>            |
| <b>AIR TRACTOR</b><br>AT-802 AIR TRACTOR | A19SW                                  | PRATT & WHITNEY PT6A-67R, -67AF, -67AG<br>1424 HP @ 1700 RPM                    | HC-B5MA-3D<br>M11691NS                                 | 118.7" TO 118.2"      | D-5497<br>D-5497-P                               | <b>1789</b>          |
| <b>AIR TRACTOR</b><br>AT-802 AIR TRACTOR | A19SW                                  | PRATT & WHITNEY PT6A-67R, -67AF, -67AG<br>1424 HP @ 1700 RPM                    | HC-B5MA-3DT<br>M11276NS                                | 115.2" TO 114.7"      | D-5497   | <b>2449</b>          |
| <b>AIR TRACTOR</b><br>AT-802 AIR TRACTOR | A19SW                                  | PRATT & WHITNEY PT6A-67R, -67AF, -67AG<br>1424 HP @ 1700 RPM                    | HC-B5MA-3DT<br>M11691NS                                | 118.7" TO 118.2"      | D-5497   | <b>2651</b>          |
| <b>AIR TRACTOR</b><br>AT-802 AIR TRACTOR | A19SW                                  | PRATT & WHITNEY PT6A-67R,-67AF,-67AG<br>1424 HP @ 1700 RPM                      | HC-B5MA-3D<br>M11276NA<br>M11276NSA                    | 115.2" TO 114.2"      | D-5497-P   | <b>2474</b>          |



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| <b>AIR TRACTOR</b><br>AT-802 AIR TRACTOR                       | A19SW   | PRATT & WHITNEY PT6A-65AG<br>1295 HP @ 1700 RPM            | HC-B5MP-3F<br>M11276NSA          | 115.2" TO 114.2"      | E-7256-P<br>E-7256      | <b>2539</b>          |
| <b>AIR TRACTOR</b><br>AT-802 AIR TRACTOR                       | A19SW   | PRATT & WHITNEY PT6A-67R,-67AF,-67AG<br>1424 HP @ 1700 RPM | HC-B5MA-3DT<br>M11276NSA         | 115.2" TO 114.2"      | D-5497                  | <b>2545</b>          |
| <b>AIRCRAFT ACQUISITION CORP.</b><br>see HELIO                 |   | HP @ RPM   |                                  |                       |                         | <b>1488</b>          |
| <b>AIRCRAFT DESIGNS INC.</b><br>STALLION                       | Experimental                                  | CONTINENTAL IO-550-G1B<br>285 HP @ 2500 RPM                | PHC-C3YF-1RF<br>F7691            | 78"                   |                         | <b>1370</b>          |
| <b>AIRCRAFT PARTS &amp; DEVELOPMENT</b><br>A-9B                | STC-SA98RM<br>AIRCRAFT PARTS &<br>DEVELOPMENT | LYCOMING IO-540-B1A5<br>290 HP @ 2575 RPM                  | HC-C3YR-1RF<br>F8468A-6R         | 80"                   | 835-36                  | <b>97</b>            |
| <b>AIRPLANE SERVICES</b><br>see AERO COMMANDER (CALLAIR)       |   | HP @ RPM   |                                  |                       |                         | <b>100</b>           |
| <b>AIRTOURER COOPERATIVE LTD.</b><br>AIRTOURER SUPER 150       | A-7 (NZ)                                      | LYCOMING O-320-E1A<br>150 HP @ 2700 RPM                    | HC-C2YL-1BF<br>F7663A-3.5        | 72.5"                 |                         | <b>1900</b>          |
| <b>AIRTOURER COOPERATIVE LTD.</b><br>Airtourer T6 Airtourer T6 | A-8 (NZ)                                      | LYCOMING O-320-D1A, E1A<br>150 HP @ 2700 RPM               | HC-C2YL-1BF<br>F7663-4           | 72" - 70"             |                         | <b>46</b>            |
| <b>AMERICAN AGVIATION (GRUMMAN)</b><br>G-164 AG CAT            | STC-SA7987SW<br>AGRI-JET POWER                | HONEYWELL TPE331-6-252<br>600 HP @ 2000 RPM                | HC-B3TN-5M<br>T10282+4           | 106.5" TO 101.0"      | C-3043-3<br>C-3043-3P   | <b>1735</b>          |
| <b>AMERICAN AGVIATION (GRUMMAN)</b><br>G-164B AG CAT           | 1A16  | PRATT & WHITNEY PT6A-20B, -34AG<br>600 HP @ 2200 RPM       | HC-B3TN-3D<br>T10282+4           | 106.5" TO 100.5"      | D-3434-12P<br>D-3434-12 | <b>1727</b>          |

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| <b>AMERICAN AGVIATION (GRUMMAN)</b><br>G-164B-34T, -15T; G-164D AG CAT | 1A16                                   | PRATT & WHITNEY PT6A-34AG; PT6A-15AG (680hp)<br>750 HP @ 2200 RPM | HC-B3TN-3D<br>T10282+4<br>T10282N+4  | 106.5" TO 100"        | D-3434-6<br>D-3434-6P | <b>928</b>           |
| <b>American Champion</b><br>8GCBC Scout                                | SA09855AC<br>Hartzell Propeller        | Lycoming O-360-C2A, -C2E, -C1A, -C1E, -C1G<br>180 HP @ 2700 RPM   | HC-C2YR-1N<br>NG8301-3               | 80"                   | D-4798P<br>D-4798     | <b>3374</b>          |
| <b>American Champion</b><br>8GCBC Denali Scout                         | SA09855AC<br>Hartzell Propeller        | Lycoming IO-390-A1B6<br>210 HP @ 2700 RPM                         | BHC-C2YR-1N<br>NG8301-3              | 80"                   | D-4798P<br>D-4798     | <b>3375</b>          |
| <b>AMERICAN CHAMPION</b><br>8KCAB SUPER DECATHLON                      | SA09892AC<br>Hartzell Propeller Inc    | Lycoming AEIO-360-H1A, -H1B<br>180 HP @ 2700 RPM                  | HC-C2YR-4N<br>NC8302-7               | 76"                   | 836-52P<br>836-52     | <b>3612</b>          |
| <b>AMERICAN CHAMPION</b><br>11AC,11BC,S11AC,S11BC CHIEF (AERONCA)      | A-761                                  | CONTINENTAL A-65-8, C-85-8F<br>85 HP @ 2575 RPM                   | HA-12U<br>7214-4<br>7214-4M<br>7214M | 74" TO 68"            |                       | <b>292</b>           |
| <b>AMERICAN CHAMPION</b><br>7GCA, 7GCB, 7GCC (AERONCA)                 | STC-SA283AL<br>BACHNER'S AIRCRAFT      | LYCOMING O-320 SERIES<br>150 HP @ 2700 RPM                        | HC-82XL-1, HC-A2XL-1<br>7636-4       | 72.2"                 |                       | <b>2112</b>          |
| <b>AMERICAN CHAMPION</b><br>7GCA, 7GCB, 7GCC (AERONCA)                 | STC-SA283AL<br>BACHNER'S AIRCRAFT      | LYCOMING O-320 SERIES<br>150 HP @ 2700 RPM                        | HC-82VL-1, HC-A2VL-1<br>V7636N-4     | 72.2"                 |                       | <b>2113</b>          |
| <b>AMERICAN CHAMPION</b><br>7GCA, 7GCB, 7GCC (AERONCA)                 | STC-SA283AL<br>BACHNER'S AIRCRAFT      | LYCOMING O-320 SERIES<br>150 HP @ 2700 RPM                        | HC-A2MVL-1<br>MV7636N-4              | 72.2"                 |                       | <b>283</b>           |
| <b>AMERICAN CHAMPION</b><br>7GCA, 7GCB, 7GCC (AERONCA)                 | STC-SA283AL<br>BACHNER'S AIRCRAFT      | HP @ RPM  | HC-C2YL-1B<br>F7663-4                | 72"                   |                       | <b>284</b>           |
| <b>AMERICAN CHAMPION</b><br>7GCBC (AERONCA)                            | STC-SA513AL<br>NORTHLAND AVIATION      | LYCOMING O-320-A3B<br>150 HP @ 2700 RPM                           | HC-C2YL-1BF<br>F8468A-8R             | 76"                   |                       | <b>285</b>           |

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| <b>AMERICAN CHAMPION</b><br>8GCBC SCOUT                        | A21CE                                  | LYCOMING O-360-C1A, -C1E, -C1G<br>180 HP @ 2700 RPM          | HC-C2YR-1BF<br>F7666A            | 76" TO 72"            | 836-52P<br>836-52            | <b>288</b>           |
| <b>AMERICAN CHAMPION</b><br>8GCBC SCOUT                        | STC-SA530AL<br>NORTHLAND AVIATION      | LYCOMING O-360-C1A, -C1E, -C1G<br>180 HP @ 2700 RPM          | HC-C2YR-1BF<br>F7666A            | 76" TO 72"            | 836-52                       | <b>289</b>           |
| <b>AMERICAN CHAMPION</b><br>8GCBC SCOUT                        | STC-SA742NW<br>KENMORE AIR HARBOR      | LYCOMING O-360-C1A<br>180 HP @ 2700 RPM                      | HC-C2YR-1BF<br>F7666A            | 76"                   | 836-52                       | <b>1210</b>          |
| <b>AMERICAN CHAMPION</b><br>8GCBC SCOUT                        | A21CE                                  | LYCOMING O-360-C1A, C1E, C1G<br>180 HP @ 2700 RPM            | HC-C3YR-1RF<br>F7282             | 74" to 73"            | A-2295-1P                    | <b>1369</b>          |
| <b>AMERICAN CHAMPION</b><br>8KCAB DECATHLON                    | A21CE                                  | LYCOMING AEIO-320-E1B; IO-320-E1A, -E1B<br>150 HP @ 2700 RPM | HC-C2YL-4F<br>FC7663-4*1         | 72" TO 70"            | 836-52                       | <b>290</b>           |
| <b>AMERICAN CHAMPION</b><br>8KCAB DECATHLON                    | A21CE                                  | LYCOMING IO-320-E1A, -E1B, AEIO-320-E1B<br>150 HP @ 2700 RPM | HC-C2YL-4, -4F, -4BF<br>FC7663-4 | 72.0" TO 70.0"        | 836-52P<br>836-52            | <b>1221</b>          |
| <b>AMERICAN CHAMPION</b><br>8KCAB DECATHLON                    | A21CE                                  | LYCOMING AEIO-360-H1A<br>180 HP @ 2700 RPM                   | HC-C2YR-4BF, -4CF<br>FC7666A-2*1 | 74.0" TO 72.0"        | 836-52P<br>836-52            | <b>291</b>           |
| <b>AMF PAKISTAN AERONAUTICAL COMP</b><br>MFI-17 MUSHSHAK       | Unknown                                | LYCOMING IO-360-A1B6<br>200 HP @ 2700 RPM                    | HC-C2YK-4BF<br>FC7666A-2         | 74"                   |                              | <b>1664</b>          |
| <b>AMF PAKISTAN AERONAUTICAL COMP</b><br>MFI-17 SHAHBAZ        | Unknown                                | CONTINENTAL TSIO-360-MB<br>210 HP @ 2700 RPM                 | HC-C2YF-1BF<br>F8459-9R          | 75"                   | 835-44                       | <b>924</b>           |
| <b>AMF PAKISTAN AERONAUTICAL COMP</b><br>MFI-17 SUPER MUSHSHAK | Unknown                                | LYCOMING IO-540-V4A5<br>260 HP @ 2700 RPM                    | HC-C2YK-1BF<br>F8477-8R          | 76.0" NO CUT OFF      | A-4203-P<br>A-4203<br>835-41 | <b>1433</b>          |
| <b>ANDERSON GREENWOOD</b><br>14                                | 4A1                                    | CONTINENTAL C-90-12FP<br>90 HP @ 2475 RPM                    | HA-12UF-1<br>L7214               | 72" TO 70.5"          |                              | <b>101</b>           |

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| <b>ANDERSON GREENWOOD</b><br>51, 51A (BELLANCA) | A11SW   | LYCOMING IO-540-C4B5, -A4D5<br>250 HP @ 2575 RPM   | HC-E2YR-1BF, 1S<br>F8465-7R            | 77" TO 76"            | C-4565   | <b>102</b>           |
| <b>ANTONOV</b><br>AN-2 SM                       | Experimental<br>Siberia Aeronautical Research Insti | Honeywell TPE331-12UHR<br>1100 HP @ 1591 RPM       | HC-B5MP-5CL<br>LM11692N<br>LM11692NK*1 | 118.7" to 118.2"      | 104236P  | <b>3225</b>          |
| <b>ANTONOV</b><br>AN-38                         | Unknown   | HONEYWELL TPE331-14GR<br>1500 HP @ 1552 RPM        | HC-B5MA-5A<br>M11276NK-3               | 112.2"                | E-5760-P   | <b>1064</b>          |
| <b>APEX</b><br>DR 500 PRESIDENT                 | EU TC 45  | LYCOMING IO-360-A1B6<br>200 HP @ 2700 RPM          | HC-C2YK-1BF<br>F7666A-2                | 74"                   | A-2298-2P<br>A-2298-2                                | <b>117</b>           |
| <b>AVI PRO AIRCRAFT</b><br>BEARHAWK             | Experimental  | LYCOMING O-540-A4A5<br>250 HP @ 2575 RPM           | HC-C3YR-1RF<br>F8068                   | 82                    | C-3535-1<br>C-3535-1P                                | <b>2663</b>          |
| <b>AVIA LTD.</b><br>201 ACCORD                  | Unknown   | CONTINENTAL IO-360-ES<br>210 HP @ 2800 RPM         | PHC-H3YF-2KUF<br>FC7453<br>FC7453B     | 76.0" TO 75.0"        | C-4558-3P  | <b>1641</b>          |
| <b>AVIAMILANO</b><br>see SIAI MARCHETTI         |   | HP @ RPM   |  |                       |  | <b>104</b>           |
| <b>AVIAN</b><br>1                               | H5EA  | LYCOMING IO-360-C1A<br>200 HP @ 2700 RPM           | HC-E2YK-1<br>FL7280+0.5                | 72"                   |  | <b>105</b>           |
| <b>AVIAT</b><br>A-1, A-1A, A-1B, A-1C-180 HUSKY | SA11177SC   | Lycoming O-360-C1G, O-360-A1P<br>180 HP @ 2700 RPM | HC-C2YR-1N<br>NG8301-3<br>NG8301-3*1   | 80"                   | C-3568-P<br>C-3568<br>105656F2<br>105656F1<br>105656 | <b>3283</b>          |

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| <b>AVIAT</b><br>A-1C-200 HUSKY           | SA11177SC<br>Hartzell Propeller        | Lycoming IO-360-A1D6<br>200 HP @ 2700 RPM            | HC-C2YR-1N<br>NG8301-3<br>NG8301-3*1   | 80"                   | C-3568-P<br>C-3568<br>105656F2<br>105656F1<br>105656 | <b>3311</b>          |
| <b>Aviat</b><br>S-2(B,C) Pitts           | Experimental                           | Lycoming AEIO-540-D4A5<br>260 HP @ 2700 RPM          | HC-C3YR-4BNW<br>NC8302W-7              | 78"                   | D-7409-3   | <b>3787</b>          |
| <b>AVIAT</b><br>S-2(B, C) PITTS          | Experimental                           | LYCOMING AEIO-540-D4A5<br>260 HP @ 2700 RPM          | HC-C3YR-4A<br>C7690E                   | 78"                   | D-7409<br>D-7267-P                                   | <b>1710</b>          |
| <b>AVIAT</b><br>A-1, A-1A, A-1B HUSKY    | SA1446SE<br>GATE 9 AIRCRAFT (AEROMARK) | LYCOMING O-360-C1G<br>180 HP @ 2700 RPM              | HC-C2YR-1BF<br>F8477-4<br>F8477-4*1    | 80" TO 78"            | C-3568-P<br>C-3568<br>836-60                         | <b>1557</b>          |
| <b>AVIAT</b><br>A-1 HUSKY                | A22NM                                  | LYCOMING O-360-C1G<br>180 HP @ 2700 RPM              | HC-C2YK-1BF<br>F7666A<br>F7666A*1      | 76" TO 72"            | 836-60   | <b>106</b>           |
| <b>AVIAT</b><br>A-1C-180, A-1C-200 HUSKY | A22NM                                  | LYCOMING O-360-A1P, IO-360-A1D6<br>200 HP @ 2700 RPM | HC-C2YR-1BF<br>F8477-4*1               | 80 to 78              | 836-60P<br>C-3568-P<br>C-3568<br>836-60              | <b>2701</b>          |
| <b>AVIAT</b><br>A-1C-180 HUSKY           | A22NM                                  | LYCOMING O-360-A1P<br>180 HP @ 2700 RPM              | HC-C2YR-1N<br>N7605                    | 76                    | 836-60P<br>836-60                                    | <b>2891</b>          |
| <b>AVIAT</b><br>S-2(B,C) PITTS           | A8SO                                   | LYCOMING AEIO-540-D4A5<br>260 HP @ 2700 RPM          | HC-C3YR-4A<br>C7690E                   | 78"                   | D-7267-P   | <b>2678</b>          |
| <b>AVIAT (CHRISTEN)</b><br>EAGLE II      | Experimental                           | LYCOMING AEIO-360-A1D<br>200 HP @ 2700 RPM           | HC-C2YK-4CF<br>FC7666A-2<br>FC7666A-4Q | 74"                   | 836-60   | <b>107</b>           |

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|---|--|--|----------------------------------|-----------------------|--------------------|----------------------|
| <b>AVIAT (PITTS)</b><br>S-1T PITTS            | A8SO                                       | LYCOMING AEIO-360-A1D, -A1E<br>200 HP @ 2700 RPM                 | HC-C2YK-4CF<br>FC7666A-2         | 74" TO 72"            | 836-60             | 108                  |
| <b>AVIAT (PITTS)</b><br>S-1-11B PITTS SPECIAL | Experimental                               | LYCOMING AEIO-540-K1( )5<br>300 HP @ 2700 RPM                    | HC-C3YR-1A<br>7690E              | 78" NO CUT OFF        | D-6936-P           | 1224                 |
| <b>AVIAT (PITTS)</b><br>S-2A PITTS            | A8SO                                       | LYCOMING IO-360-A1A, AEIO-360-A1A, -<br>A1E<br>200 HP @ 2700 RPM | HC-C2YK-4AF<br>FC7666A-2         | 74" TO 72"            | 836-60             | 109                  |
| <b>AVIAT (PITTS)</b><br>S-2(B,C) PITTS        | A8SO                                       | LYCOMING AEIO-540-D4A5<br>260 HP @ 2700 RPM                      | HC-C3YR-1A<br>7690E              | 78" NO CUT OFF        | D-6936-P           | 1226                 |
| <b>AVIAT (PITTS)</b><br>S-2S, S-2B PITTS      | A8SO                                       | LYCOMING AEIO-540-D4A5<br>260 HP @ 2700 RPM                      | HC-C2YR-4CF<br>FC8477A-4*1       | 80.0" TO 78.0"        | 836-60P<br>836-60  | 110                  |
| <b>AVIONS MUDRY</b><br>CAP 20                 | Unknown                                    | LYCOMING AIO-360-B1A<br>200 HP @ 2700 RPM                        | HC-C2YK-4F<br>FC7666A*1          | 76"                   | C-2513-5           | 669                  |
| <b>AVIONS PIERRE ROBIN</b><br>HR 100/200      | EASA TC 61                                 | LYCOMING IO-360-A1D6<br>200 HP @ 2700 RPM                        | HC-F2YR-1F<br>F7666A-2           | 74"                   |                    | 115                  |
| <b>AVIONS PIERRE ROBIN</b><br>HR 100/210      | Unknown                                    | CONTINENTAL IO-360-C, -D(B)<br>210 HP @ 2800 RPM                 | BHC-J2YF-1BF<br>F7663            | 76"                   | 835-23P<br>835-23  | 116                  |
| <b>AVIONS PIERRE ROBIN</b><br>ROBIN           | Unknown                                    | LYCOMING O-540-C4B5<br>250 HP @ 2575 RPM                         | HC-C2YK-1BF<br>F8477-4           | 80"                   | 835-23             | 119                  |
| <b>AVIONS PIERRE ROBIN</b><br>ROBIN           | Unknown                                    | LYCOMING O-540-B4B5<br>235 HP @ 2575 RPM                         | HC-C2YK-1BF<br>F8468-6R          | 78"                   | 835-23             | 118                  |
| <b>AVIPRO</b><br>BearHawk Bearhawk            | Experimental                               | LYCOMING IO-540, IO-540-K1H5<br>250 HP @ 2575 RPM                | HC-C3Y1R-1NX<br>NG8301-3X1       | 82"                   | C-3575-P<br>C-3575 | 3493                 |

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|--|---|--|---------------------------------------|-------------------------------------|--|----------------------|
| <b>AVIPRO AIRCRAFT</b><br>Bearhawk     | Experimental                                  | Lycoming IO-390-X<br>210 HP @ 2700 RPM   | HC-C2YR-1BFP<br>F8477-4               | 80"                                 | A-2298-2P                                      | <b>3180</b>          |
| <b>AVIPRO AIRCRAFT</b><br>BEARHAWK     | Experimental                                  | LYCOMING O-540-A4A5<br>250 HP @ 2575 RPM                                       | HC-C2YR-1BF<br>F8477-4                | 80"                                 | A-2298-2<br>A-2298-2P                          | <b>2426</b>          |
| <b>AYRES</b><br>S-2R TURBO THRUSH      | SA00902CH<br>TURBINE CONVERSIONS, LTD         | WALTER M601E-11<br>777 HP @ 2080 RPM   | HC-B3TW-3<br>T10282NS+4               |                                     | D-3434-6<br>D-3434-6P                          | <b>1862</b>          |
| <b>AYRES</b><br>S-2R TURBO THRUSH      | STC-SA4039SW<br>PAGE INDUSTRIES               | LYCOMING LTP-101-600A<br>600 HP @ 1950 RPM                                     | HC-B3TN-3D<br>T10282<br>T10282N       | 102.0"                              | C-3065   | <b>127</b>           |
| <b>AYRES</b><br>S-2R TURBO THRUSH      | STC SA2792SW<br>SOUTHERN AGRO TURBINES        | PRATT & WHITNEY PT6A-15AG, -20(A), -21, -27, -28, -34(AG)<br>750 HP @ 2200 RPM | HC-B3TN-3D<br>T10282N+4<br>T10282NS+4 | 106.5" TO 98.0"                     | D-3434-6<br>D-3434-6P                          | <b>1595</b>          |
| <b>AYRES</b><br>S-2R-T( ) TURBO THRUSH | STC (SOUTH AFRICA)<br>ORSMOND AERIAL SPRAYING | PRATT & WHITNEY PT6A-61<br>845 HP @ 2000 RPM                                   | HC-B3TN-3AE<br>T10290N                | 102" max. refer to STC<br>for min.  | D-3434-12P<br>D-3434-12                        | <b>1633</b>          |
| <b>AYRES</b><br>S-2R TURBO THRUSH      | STC SA3927WE<br>FLOYD D. STILWELL             | HONEYWELL TPE331-1()<br>665 HP @ 2000 RPM                                      | HC-B3TN-5E<br>T10282N+4               | 106.5"                              | C-3043-2P                                      | <b>128</b>           |
| <b>AYRES</b><br>S-2R TURBO THRUSH      | STC-SA5953NM<br>GOERING AIRCRAFT              | HONEYWELL TPE331-5-252<br>776 HP @ 1591 RPM                                    | HC-B4TN-5NL<br>LT10890N               | 109.5"                              | D-3434-7P<br>D-3434-7                          | <b>1793</b>          |
| <b>AYRES</b><br>S-2R TURBO THRUSH      | STC-SA5953NM<br>GOERING AIRCRAFT              | HONEYWELL TPE331-1, -2, -5<br>665 HP @ 2000 RPM                                | HC-B3TN-5V<br>T10290N+2               | 104" max. refer. to STC<br>for min. | C-3043-2<br>C-3043-3<br>C-3043-3P<br>C-3043-2P | <b>1542</b>          |

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|--|--|--|--|-----------------------|--|----------------------|
| AYRES<br>S-2R TURBO THRUSH                 | STC-SA5953NM<br>GOERING AIRCRAFT       | HONEYWELL TPE331-1-151(A,G,K), -2-201(A,C), -5-252(B,M)<br>665 HP @ 2000 RPM | HC-B3TN-5C, -5M<br>T10282+4<br>T10282N+4 | 106.5" TO 102.0"      | C-3043-3P<br>C-3043-2P<br>C-3043-3<br>C-3043-2 | 131                  |
| AYRES<br>S-2R TURBO THRUSH                 | STC-SA8685SW<br>AAA FLYING SERVICE     | HONEYWELL TPE331-1-151(A,G,K), -2-201A<br>600 HP @ 2000 RPM                  | HC-B3TN-5C, -5M<br>T10282+4<br>T10282N+4 | 106.5" TO 102.0"      |  | 132                  |
| AYRES<br>S-2R-G1 TURBO THRUSH              | STC-SA3237WE<br>AYRES CORPORATION      | HONEYWELL TPE331-1-151A<br>665 HP @ 2000 RPM                                 | HC-B3TN-5M<br>T10282+4                   | 106.0" TO 98.0"       | D-3434-1P<br>D-3434-1                          | 1072                 |
| AYRES<br>S-2R-G5, -G10 TURBO THRUSH        | A4SW                                   | HONEYWELL TPE331-5 (TPE-331-10, S2R-G10)<br>900 HP @ 1591 RPM                | HC-B4TN-5NL<br>LT10890N*1                | 109.5" TO 107.5"      | D-3434-7P                                      | 1181                 |
| AYRES<br>S-2R-T11 TURBO THRUSH             | A4SW, A3SW                             | PRATT & WHITNEY PT6A-11AG<br>500 HP @ 2200 RPM                               | HC-B3TN-3C<br>T10282<br>T10282N          | 102.0" TO 92.5        |  | 120                  |
| AYRES<br>S-2R-T11, -T15, -T34 TURBO THRUSH | A4SW                                   | PRATT & WHITNEY PT6A-34(AG), -36, 41(AG)<br>750 HP @ 2200 RPM                | HC-B3TN-3C, -3D<br>T10282+4<br>T10282N+4 | 106.5" TO 98.0" *     | D-3434-12<br>D-3434-12P                        | 123                  |
| AYRES<br>S-2R-T15 TURBO THRUSH             | A4SW, A3SW                             | PRATT & WHITNEY PT6A-15AG<br>680 HP @ 2200 RPM                               | HC-B3TN-3C<br>T10282<br>T10282N          | 102.0" TO 92.5"       |  | 121                  |
| AYRES<br>S-2R-T34 TURBO THRUSH             | A4SW, A3SW                             | PRATT & WHITNEY PT6A-34AG<br>750 HP @ 2200 RPM                               | HC-B3TN-3C<br>T10282<br>T10282N          | 102.0" TO 92.5"       | D-3434-12                                      | 122                  |



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|--|--|---|---|-----------------------|--|----------------------|
| <b>AYRES</b><br>S-2R-1340, -G(5,6,10), -R3S, -R1820, -T(6,11,15,34,45,65) TURBO THRUSH | STC-SA00172SE<br>AG AIR SYSTEMS        | HONEYWELL TPE331-5, -10<br>900 HP @ 1591 RPM                                  | HC-B4TN-5PL<br>LT10890N                 | 109.5"                | D-3434-7P<br>D-3434-7<br>C-3410<br>C-3410P | <b>1180</b>          |
| <b>AYRES</b><br>S-2R-1340, -G(5,6,10), -R3S, -R1820, -T(6,11,15,34,45,65) TURBO THRUSH | STC-SA00172SE<br>AG AIR SYSTEMS        | HONEYWELL TPE331-5, -10<br>900 HP @ 1591 RPM                                  | HC-B4TN-5NL<br>LT10890N                 | 109.5"                | D-3434-7P<br>D-3434-7                      | <b>1725</b>          |
| <b>AYRES</b><br>S-2R-G6 TURBO THRUSH   | A4SW                                   | HONEYWELL TPE331-6<br>700 HP @ 2000 RPM                                       | HC-B3TN-5M<br>T10282N+4                 | 106.5" TO 102.0"      | D-3434-1P<br>D-3434-1                      | <b>130</b>           |
| <b>AYRES</b><br>S-2RHG-T65 TURBO THRUSH  | A4SW, A3SW                             | PRATT & WHITNEY PT6A-60AG AND -65AG<br>1230 HP @ 1700 RPM                     | HC-B5MP-3C<br>M10876ANS<br>M10876AS     | 111.2" TO 110.7"      | D-3434-8P<br>D-3434-8                      | <b>125</b>           |
| <b>AYRES</b><br>S-2R-T65, S-2R-T45 (see note) TURBO THRUSH                             | A4SW                                   | PRATT & WHITNEY PT6A-65AG, see note for optional engine<br>1230 HP @ 1700 RPM | HC-B5MP-3C<br>M10876ANS<br>M10876AS     | 111.2" TO 110.7"      | D-3434-8P<br>D-3434-8                      | <b>124</b>           |
| <b>BAE (JETSTREAM)</b><br>137 JETSTREAM  | STC SA2293SW<br>JETSTREAM, INC.        | PRATT & WHITNEY PT6A-34<br>750 HP @ 2200 RPM                                  | HC-B3TN-3D<br>T10282B-6<br>T10282NB-6   | 96.0"                 |  | <b>572</b>           |
| <b>BAE (JETSTREAM)</b><br>137 JETSTREAM  | STC SA3425WE<br>CAMERON & STAHL        | HONEYWELL TPE331-3U-303V<br>840 HP @ 2000 RPM                                 | HC-B3TN-5K<br>T10178N-4R<br>T10178NB-4R | 97.5"                 | C-3043-3P                                  | <b>574</b>           |
| <b>BAE (JETSTREAM)</b><br>137 JETSTREAM  | STC SA3425WE<br>CAMERON & STAHL        | HONEYWELL TPE331-3U-303V<br>840 HP @ 2000 RPM                                 | HC-B3TN-5E<br>T10178NBR                 | 101.5"                | C-3043-3P                                  | <b>573</b>           |
| <b>BAE (SCOTTISH AVIATION)</b><br>B.125 BULLDOG  | Unknown                                | LYCOMING IO-360-A1B6<br>200 HP @ 2700 RPM                                     | HC-C2YR-4BF<br>FC7666A-2                | 74"                   | C-2513-5<br>835-41                         | <b>935</b>           |

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|--|--|---|----------------------------------|-----------------------|---------------------|----------------------|
| <b>BAE (SCOTTISH AVIATION)</b><br>B.206 SERIES 2 BEAGLE                  | A11EU                                  | CONTINENTAL GTSIO-520-C<br>340 HP @ 2400 RPM    | HC-A3VF-2D<br>V8433              | 88.375" TO 86.375"    | 835-29<br>835-31P   | <b>2327</b>          |
| <b>BAE (SCOTTISH AVIATION)</b><br>B.206 SERIES 2 BEAGLE                  | A11EU                                  | CONTINENTAL GTSIO-520-C<br>340 HP @ 2400 RPM    | HC-A3MVF-2D<br>MV8833N           | 88.375" TO 86.375"    | 835-29<br>835-31P   | <b>936</b>           |
| <b>BAE (SCOTTISH AVIATION)</b><br>B.206 SERIES 2 BEAGLE                  | Unknown                                | CONTINENTAL GTSIO-520-C<br>340 HP @ 2400 RPM    | HC-A3VF-2D<br>V8833N-2Q          | 86.375"               | 835-31P             | <b>2298</b>          |
| <b>BAE (SCOTTISH AVIATION)</b><br>B.206 SERIES 2 BEAGLE                  | Unknown                                | CONTINENTAL GTSIO-520-C<br>340 HP @ 2400 RPM    | HC-A3MVF-2D<br>MV8833N-2Q        | 86.375"               | 835-31P             | <b>1522</b>          |
| <b>BAUGER</b><br>SAIL PLANE  | Unknown                                | LYCOMING O-290-D<br>125 HP @ 2700 RPM           | HC-82XL-2, HC-A2XL-2<br>7636-4   | 72.2"                 |                     | <b>2081</b>          |
| <b>BAUGER</b><br>SAIL PLANE  | Unknown                                | LYCOMING O-290-D<br>125 HP @ 2700 RPM           | HC-82VL-2, HC-A2VL-2<br>V7636N-4 | 72.2"                 |                     | <b>2082</b>          |
| <b>BAUGER</b><br>SAIL PLANE  | Unknown                                | LYCOMING O-290-D<br>125 HP @ 2700 RPM           | HC-A2MVL-2<br>MV7636N-4          | 72.2"                 |                     | <b>134</b>           |
| <b>BEDE</b><br>BD-4  | EXPERIMENTAL                           | LYCOMING O-360-A1A<br>180 HP @ 2700 RPM         | HC-C2YR-1BF<br>F7666A            | 76-72"                | 835-33P<br>835-33   | <b>2726</b>          |
| <b>Beech</b><br>( )200( ) King Air                                       | SA2698NM-S<br>Raisbeck                 | P&W PT6A-41, -42, -52, -61<br>850 HP @ 2000 RPM | 5D3-NK366A1<br>91D15B            | 96"                   | 107503P<br>107503   | <b>3715</b>          |
| <b>BEECH</b><br>200, 200C, B200, B200C SUPER KING AIR (s/n BT35+ & BN5+) | SA02715CH-D<br>Standard Aero           | PRATT & WHITNEY PT6A-52<br>850 HP @ 2000 RPM    | HC-E4N-3G<br>D9390S-1R           | 93.0" TO 92.0"        | D-630-2P<br>D-630-2 | <b>3413</b>          |
| <b>BEECH</b><br>A36, A36TC BONANZA                                       | SA3523NM<br>Soly Aviation Solutions    | ALLISON 250-B17C<br>420 HP @ 2030 RPM           | HC-B3TF-7A<br>T9212NK-2          | 90"                   | 835-39EP            | <b>2632</b>          |

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|--|--|---|--|-----------------------|-----------------------|----------------------|
| <b>BEECH</b><br>E55, E55A BARON  | STC-SA773CE<br>HARTZELL PROPELLER      | CONTINENTAL IO-520-C<br>285 HP @ 2700 RPM                   | BHC-J2YF-2C(F)<br>FC8475-6                                 | 78" TO 76"            | C-2285-1P             | <b>2421</b>          |
| <b>BEECH</b><br>E90, C90 King Air  | SA3593NM<br>Raisbeck                   | Pratt & Whitney PT6A-135,135A, -28<br>550 HP @ 1900 RPM     | HC-D4N-3C<br>D9510SK                                       | 96" to 95"            | D-630-11P<br>D-630-11 | <b>3259</b>          |
| <b>BEECH</b><br>95-55, 95-(A)(B)55, 95-B55A, 95-B55B Baron   | SA01463WI<br>Hartzell Propeller        | Continental IO-470-L<br>260 HP @ 2625 RPM                   | PHC-C3YF-2UF<br>FC7391D                                    | 75" to 73.5"          | C-3567-1P<br>C-3567-1 | <b>2963</b>          |
| <b>BEECH</b><br>C18S [(C-45(A, F), UC-45(B, F), AT-7 (A, B, C), JRB-(1, 2, 3, 4), SNB-2(C)) TWIN BEECH | A757                                   | PRATT & WHITNEY WASP JR., R-985 SERIES<br>450 HP @ 2300 RPM | HC-B3R30-2E(A)<br>R10152-5.5<br>R10152B-5.5<br>R10152N-5.5 | 95.5" NO CUT OFF      | 836-32SPR             | <b>135</b>           |
| <b>BEECH</b><br>C-45G,H; TC-45G,H,J; RC-45J TWIN BEECH   | A765                                   | PRATT & WHITNEY R985-AN-14B<br>450 HP @ 2300 RPM            | HC-B3(Z,W)30-2E<br>10152-5.5                               | 95.5" NO CUT OFF      | 836-16<br>836-17S     | <b>138</b>           |
| <b>BEECH</b><br>C-45G,H; TC-45G,H,J; RC-45J TWIN BEECH   | A765                                   | PRATT & WHITNEY R985-AN-14B<br>450 HP @ 2300 RPM            | HC-B3(Z,W)30-2E<br>10160-6                                 | 95" NO CUT OFF        | 836-16<br>836-17      | <b>139</b>           |
| <b>BEECH</b><br>D18S,E18S,G18S,H18; 3N,3NM,3TM TWIN BEECH  | A765                                   | PRATT & WHITNEY R985-AN-14B<br>450 HP @ 2300 RPM            | HC-B3(Z,W)30-2E<br>10160-6                                 | 95" NO CUT OFF        | 836-16<br>836-17      | <b>137</b>           |
| <b>BEECH</b><br>D18S,E18S,G18S,H18; 3NM,3N,3TM TWIN BEECH  | A-765                                  | PRATT & WHITNEY R985-AN-14B<br>450 HP @ 2300 RPM            | HC-B3(P,R,W,Z)30-2E<br>10152-5.5                           | 95.5" NO CUT OFF      | 836-17S<br>836-16     | <b>136</b>           |
| <b>BEECH</b><br>C18S [(C-45(A,F), UC-45(B,F), AT-7(A,B,C), JRB-(1,2,3,4), SNB-2(C)) TWIN BEECH         | A757                                   | PRATT & WHITNEY WASP JR., R-985 SERIES<br>450 HP @ 2300 RPM | HC-B3W30-2E(A)<br>W10152-5.5<br>W10152N-5.5                | 95.5" NO CUT OFF      | 836-32SPR             | <b>2676</b>          |

# HARTZELL

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| <u>Model/Trade Name:</u>  | <u>Aircraft T.C./STC No/ Modifier:</u> | <u>Engine/ Power:</u>   | <u>Propeller/Blade Model(s):</u>                              | <u>Prop Diameter:</u> | <u>Spinner:</u> | <u>IDS Ref. No.:</u> |
|---|--|---|---|-----------------------|-----------------|----------------------|
| <b>BEECH</b><br>C18S [(C-45(A,F), UC-45(B,F), AT-7(A,B,C), JRB-(1,2,3,4), SNB-2(C) TWIN BEECH | A757                                   | PRATT & WHITNEY WASP JR., R-985 SERIES<br>450 HP @ 2300 RPM     | HC-B3Z30-2EA<br>10152N-5.5                                    | 95.5" NO CUT OFF      | 836-32SPR       | 2677                 |
| <b>BEECH</b><br>C18S, AT-11 TWIN BEECH  | STC-SA1-50<br>HARTZELL PROPELLER       | PRATT & WHITNEY R985 (with 4.5 & 9 damper)<br>450 HP @ 2300 RPM | HC-(9,B)3(Z,W,P,R)30-2C, -2E<br>10152-5.5<br>10152N-5.5       | 95.5" NO CUT OFF      | 836-32SR        | 140                  |
| <b>BEECH</b><br>C18S, AT-11 TWIN BEECH  | STC-SA1-50<br>HARTZELL PROPELLER       | PRATT & WHITNEY R985 (with 4.5 & 9 damper)<br>450 HP @ 2300 RPM | HC-B3(Z,W)30-2E<br>10160-6<br>10160N-6                        | 95" NO CUT OFF        | 836-32SR        | 141                  |
| <b>BEECH</b><br>D18S, C-45G, C-45H TWIN BEECH   | STC-SA1-118<br>HARTZELL PROPELLER      | PRATT & WHITNEY R985 (with 4.5 & 9 damper)<br>450 HP @ 2300 RPM | HC-(9,B)3(Z,W,P,R)30-2E<br>10152-5.5<br>10152N-5.5            | 95.5" NO CUT OFF      | 836-32SR        | 142                  |
| <b>BEECH</b><br>D18S, C-45G, C-45H TWIN BEECH   | STC-SA1-118<br>HARTZELL PROPELLER      | PRATT & WHITNEY R985 (with 4.5 & 9 damper)<br>450 HP @ 2300 RPM | HC-B3(Z,W)30-2E<br>10160-6<br>10160N-6                        | 95" NO CUT OFF        | 836-32SR        | 143                  |
| <b>BEECH</b><br>18 SERIES TWIN BEECH  | STC-SA1-174<br>CHAMBERLAIN AV.         | PRATT & WHITNEY R985<br>450 HP @ 2300 RPM                       | HC-93Z30-2C<br>10152-5.5<br>10152N-5.5                        | 95.5"                 |                 | 144                  |
| <b>BEECH</b><br>C45 TWIN BEECH  | STC-SA3442<br>HAMILTON AIRCRAFT        | PRATT & WHITNEY R985<br>450 HP @ 2300 RPM                       | HC-93Z30-2D<br>10152-5.5<br>10152N-5.5<br>10160-6<br>10160N-6 | 95.5"                 |                 | 145                  |
| <b>BEECH</b><br>18, C45 TWIN BEECH  | STC-SA4-113<br>AIRLINE TRAINING        | PRATT & WHITNEY R985-AN4, -AN10, -AN14B<br>450 HP @ 2300 RPM    | HC-93Z30-2C<br>10152-5.5<br>10152N-5.5                        | 95.5" MIN             | 836-16          | 146                  |

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|--|--|--|--|-----------------------|-----------------------|----------------------|
| <b>BEECH</b><br>18S TWIN BEECH                       | STC-SA890CE<br>AIR TRANSPORT CORP      | LYCOMING TIGO-541-B1A<br>450 HP @ 2133 RPM       | HC-B3WN-2L<br>LW10151-3<br>LW10151N-3  | 98.4"                 | 836-42                | 147                  |
| <b>BEECH</b><br>TURBO 18 TWIN BEECH                  | STC-SA1171WE<br>VOLPAR INC.            | GARRETT TPE331-1-101B<br>575 HP @ 2000 RPM       | HC-B3TN-5C<br>T10178-7Q<br>T10178N-7Q  | 94"                   | C-3043-3              | 148                  |
| <b>BEECH</b><br>TURBO 18 TWIN BEECH                  | STC-SA3385WE<br>VOLPAR INC.            | HONEYWELL TPE331-1-101B<br>575 HP @ 2000 RPM     | HC-B3TN-5M<br>T10178-5Q<br>T10178B-5Q<br>T10178B-5Q*1<br>T10178N-5Q<br>T10178NB-5Q | 96.0"                 | C-3043-3P<br>C-3043-3 | 159                  |
| <b>BEECH</b><br>(D,E)18(C,S) (T,C)45(G,H) TWIN BEECH | STC-SA1016WE<br>HAMILTON A/C CORP      | PRATT & WHITNEY PT6A-6, -20<br>550 HP @ 2200 RPM | HC-B3TN-3B<br>T10173E-8*1  | 93.5"                 | C-3065<br>C-3006P     | 160                  |
| <b>BEECH</b><br>18 TWIN BEECH                        | STC-SA793SW<br>DEE HOWARD              | PRATT & WHITNEY PT6A-20<br>550 HP @ 2200 RPM     | HC-B3TN-3B<br>T10173-5<br>T10173N-5  | 96.5" TO 90.4"        | C-3065                | 161                  |
| <b>BEECH</b><br>B24R SIERRA                          | A1CE                                   | LYCOMING IO-360-A1B6<br>200 HP @ 2700 RPM        | HC-M2YR-1BF<br>F7666A-2R   | 74" NO CUT OFF        | A-2298-2              | 162                  |
| <b>BEECH</b><br>C24R SIERRA                          | A1CE                                   | LYCOMING IO-360-A1B6<br>200 HP @ 2700 RPM        | HC-M2YR-1BF<br>F7666A  | 76" NO CUT OFF        | A-2298-2P             | 163                  |
| <b>BEECH</b><br>35-33,35-(A,B,C) DEBONAIR            | 3A15                                   | CONTINENTAL IO-470-K<br>225 HP @ 2600 RPM        | BHC-92ZF-1D1<br>8447<br>8447N  | 84" TO 82"            | 837-3                 | 167                  |

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|---|--|---|--------------------------------------|-----------------------|--------------------|----------------------|
| <b>BEECH</b><br>35-C33A, E33A, F33A BONANZA   | 3A15                                   | CONTINENTAL IO-520-B, -BA, -BB<br>285 HP @ 2700 RPM   | PHC-A3VF-4<br>V8433-2R<br>V8433N-2R  | 82.6" TO 78.25"       |                    | <b>2356</b>          |
| <b>BEECH</b><br>35-C33A, E33A, F33A BONANZA,<br>DEBONAIR                            | 3A15                                   | CONTINENTAL IO-520-B, -BA, -BB<br>285 HP @ 2700 RPM   | PHC-A3VF-4<br>V8433-2R               | 82.6" TO 78.25"       | 837-8              | <b>2083</b>          |
| <b>BEECH</b><br>35-C33A, E33A, F33A BONANZA,<br>DEBONAIR                            | 3A15                                   | CONTINENTAL IO-520-B, -BA, -BB<br>285 HP @ 2700 RPM   | PHC-A3VF-4<br>V8433-4R               | 82.6" TO 78.25"       | 837-8              | <b>2301</b>          |
| <b>BEECH</b><br>35-C33A, E33A, F33A BONANZA,<br>DEBONAIR                            | 3A15                                   | CONTINENTAL IO-520-B, -BA, -BB<br>285 HP @ 2700 RPM   | PHC-A3MVF-4<br>MV8433N-2R            | 82.6" TO 78.25"       | 837-8              | <b>1563</b>          |
| <b>BEECH</b><br>35-C33A, E33A, F33A BONANZA,<br>DEBONAIR                            | 3A15                                   | CONTINENTAL IO-520-B, -BA, -BB<br>285 HP @ 2700 RPM   | PHC-A3MVF-4<br>MV8433N-2R            | 82.6" TO 78.25"       | 837-8              | <b>169</b>           |
| <b>BEECH</b><br>(E,F,G)33, (J,K,M,N,P)35, 35-33, 35-<br>(A,B,C)33 BONANZA, DEBONAIR | STC-SA818CE<br>HARTZELL PROPELLER      | CONTINENTAL IO-470-C, -J, -K, -N<br>260 HP @ 2625 RPM | BHC-L2YF-1BF<br>F8468AR              | 84.0" TO 82.5"        | A-2295<br>A-2295-P | <b>175</b>           |
| <b>BEECH</b><br>G33 BONANZA   | STC-SA818CE<br>HARTZELL PROPELLER      | CONTINENTAL IO-470-N<br>260 HP @ 2625 RPM             | BHC-L2YF-1BF<br>F8468AR              | 84" TO 82.5"          | A-2295             | <b>173</b>           |
| <b>BEECH</b><br>(E,F,G)33, (J,K,M,N,P)35, 35-33, 35-<br>(A,B,C)33 BONANZA, DEBONAIR | STC-SA818CE<br>HARTZELL PROPELLER      | CONTINENTAL IO-470-C, -J, -K, -N<br>260 HP @ 2625 RPM | PHC-L3YF-1RF<br>F8468A-6R            | 80.0" TO 78.5"        | A-2295-1P          | <b>174</b>           |
| <b>BEECH</b><br>33 & 35 SERIES BONANZA  | STC-SA168CH<br>D'SHANNON PRODUCTS      | CONTINENTAL IO-470-C, -J, -K, -N<br>260 HP @ 2625 RPM | PHC-L3YF-1RF<br>F8468A-6R            | 80"                   | A-2295-1           | <b>194</b>           |
| <b>BEECH</b><br>33, 35 BONANZA  | SA01561CH<br>D'SHANNON PRODUCTS        | CONTINENTAL IO-470-C, -N<br>260 HP @ 2625 RPM         | PHC-L3YF-1RF<br>F8068-2<br>F8068-2*1 | 82" TO 78"            | A-2295-1P          | <b>1852</b>          |

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|--|--|---|--|-----------------------|------------------------|----------------------|
| <b>BEECH</b><br>33, 35 BONANZA   | SA01561CH<br>D'SHANNON PRODUCTS        | CONTINENTAL IO-470-K<br>225 HP @ 2600 RPM           | PHC-L3YF-1RF<br>F8068<br>F8068*1<br>F8068-2<br>F8068-2*1 | 82" TO 78"            | A-2295-1P              | 1936                 |
| <b>BEECH</b><br>33,35,36 SERIES (SEE NOTE)<br>BONANZA                          | SA01668CH<br>D'SHANNON PRODUCTS        | CONTINENTAL IO-550-B<br>300 HP @ 2700 RPM           | PHC-L3YF-1RF<br>F8068                                    | 82" TO 78"            | A-2295-1P              | 2498                 |
| <b>BEECH</b><br>33, 35, 36 (SEE NOTES) BONANZA                                 | SA10135SC<br>HARTZELL PROPELLER        | CONTINENTAL IO-520-B, BA, BB;<br>300 HP @ 2700 RPM  | PHC-C3YF-1RF<br>F8068*4                                  | 82" TO 78"            | A-2295-1P<br>A-2295-2P | 1977                 |
| <b>BEECH</b><br>33,35,36 SERIES (SEE NOTES)<br>BONANZA                         | SA01668CH<br>D'SHANNON PRODUCTS        | CONTINENTAL IO-550-B<br>300 HP @ 2700 RPM           | PHC-C3YF-1RF<br>F8068                                    | 82" TO 78"            | A-2295-1P              | 2499                 |
| <b>BEECH</b><br>35-C33A, E33A, E33C, F33A, F33C<br>BONANZA                     | STC-SA785CE<br>HARTZELL PROPELLER      | CONTINENTAL IO-520-BA,-BB<br>285 HP @ 2700 RPM      | BHC-C2YF-1BF<br>F8468AR                                  | 84" TO 82"            | A-2295                 | 178                  |
| <b>BEECH</b><br>35-C33A, E33A, F33(A,C), G33,36,<br>A36, S35, V35(A,B) BONANZA | SA5223NM<br>ENGINE TECHNOLOGIES INC.   | CONTINENTAL IO-520-B,-BA,-BB/<br>285 HP @ 2700 RPM  | PHC-C3YF-1R(F)<br>F8068<br>F8068*5                       | 82" to 78"            | A-2295-1               | 1787                 |
| <b>BEECH</b><br>35-C33A, E33C, F33(A,C), 36, A36,<br>S35, V35(A,B) BONANZA     | STC-SA785CE<br>HARTZELL PROPELLER      | CONTINENTAL IO-520-B,-BA,-BB<br>285 HP @ 2700 RPM   | PHC-C3YF-1R(F)<br>F8468-6R<br>F8468A-6R                  | 80.0" TO 78.0"        | A-2295-1P              | 180                  |
| <b>BEECH</b><br>35-C33A, S35, V35(A,B) BONANZA                                 | STC-SA450CH<br>D'SHANNON PRODUCTS      | CONTINENTAL IO-520-B, -BA, -BB<br>285 HP @ 2700 RPM | PHC-C3YF-1RF<br>F7691                                    | 78.0" TO 77.0"        | A-2295-1P              | 1177                 |
| <b>BEECH</b><br>E33(A,C), F33(A,C) BONANZA                                     | STC-SA450CH<br>D'SHANNON PRODUCTS      | CONTINENTAL IO-520-B, -BA, -BB<br>285 HP @ 2700 RPM | PHC-C3YF-1RF<br>F7691                                    | 78.0" TO 77.0"        | A-2295-1P              | 1176                 |

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|---|--|---|---|-----------------------|-----------------------|----------------------|
| <b>BEECH</b><br>E33(A,C), F33(A,C), G33 BONANZA | STC-SA2200SW<br>D'SHANNON PRODUCTS     | CONTINENTAL IO-520-B, -BA, -BB<br>285 HP @ 2700 RPM         | PHC-C3YF-1RF<br>F8468A-6R                   | 80.0" TO 78.0"        | A-2295-1P             | 1238                 |
| <b>BEECH</b><br>E33(A,C), F33(A,C), G33 BONANZA | STC-SA2200SW<br>D'SHANNON PRODUCTS     | CONTINENTAL IO-520-B, -BA, -BB<br>285 HP @ 2700 RPM         | PHC-C3YF-1RF<br>F7691                       | 78.0" TO 77.0"        | A-2295-1P             | 1243                 |
| <b>BEECH</b><br>E33(A,C), F33(A,C), G33 BONANZA | STC-SA2200SW<br>D'SHANNON PRODUCTS     | CONTINENTAL IO-520-B,-BA,-BB<br>285 HP @ 2700 RPM           | PHC-L3YF-1RF<br>F8468A-6R                   | 80.0" TO 78.0"        | A-2295-1P             | 196                  |
| <b>BEECH</b><br>33, 35, 36 BONANZA              | STC-SA01548CH<br>D'SHANNON PRODUCTS    | CONTINENTAL IO-550-B, IO-520-B, BA, BB<br>300 HP @ 2700 RPM | PHC-C3YF-1RF<br>F8068<br>F8068*1<br>F8068*5 | 82" TO 78"            | A-2295-1P             | 1809                 |
| <b>BEECH</b><br>33, 35, 36 (See Notes) BONANZA  | SA02556CH-D<br>HARTZELL PROPELLER      | CONTINENTAL IO-520B, BA, BB, IO-550-B<br>300 HP @ 2700 RPM  | PHC-C3YF-1RF<br>F8068K*2                    | 82" TO 80"            | A-2295-2<br>A-2295-2P | 2759                 |
| <b>BEECH</b><br>35, 33 BONANZA                  | STC-SA01548CH<br>D'SHANNON PRODUCTS    | CONTINENTAL IO-550-B, IO-520-B, BA, BB<br>300 HP @ 2700 RPM | PHC-L3YF-1RF<br>F8068<br>F8068*1            | 82" TO 78"            | A-2295-1P             | 1941                 |
| <b>BEECH</b><br>E33(A,C), F33(A,C), G33 BONANZA | STC-SA2200SW<br>D'SHANNON PRODUCTS     | CONTINENTAL IO-550-B<br>300 HP @ 2700 RPM                   | PHC-C3YF-1RF<br>F8468A-6R                   | 80.0" TO 78.0"        | A-2295-1P             | 195                  |
| <b>BEECH</b><br>E33(A,C), F33(A,C), G33 BONANZA | STC-SA2200SW<br>D'SHANNON PRODUCTS     | CONTINENTAL IO-550-B<br>300 HP @ 2700 RPM                   | PHC-L3YF-1RF<br>F8468A-6R                   | 80.0" TO 78.0"        | A-2295-1P             | 1233                 |
| <b>BEECH</b><br>E33(A,C), F33(A,C), G33 BONANZA | STC-SA2200SW<br>D'SHANNON PRODUCTS     | CONTINENTAL IO-550-B<br>300 HP @ 2700 RPM                   | PHC-C3YF-1RF<br>F7691                       | 78.0" TO 77.0"        | A-2295-1P             | 1244                 |
| <b>BEECH</b><br>A45 (T-34A, B-45) MENTOR        | 5A3                                    | CONTINENTAL IO-470-N<br>260 HP @ 2625 RPM                   | BHC-L2YF-4BF<br>FC8468AR                    | 84.0" NO CUT OFF      | A-2297<br>A-2297-P    | 206                  |



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|---|--|---|--|-----------------------|-----------------------|----------------------|
| <b>BEECH</b><br>T34C, T34C-1 MENTOR (TURBOPROP) | A26CE                                  | PRATT & WHITNEY PT6A-25, -25A<br>550 HP @ 2200 RPM          | HC-B3TN-3H<br>T10173-11R<br>T10173N-11R  | 90.5" TO 88"          | C-3065-6              | <b>209</b>           |
| <b>BEECH</b><br>T34A, A45, B45 MENTOR           | STC-SA876CE<br>BEECH                   | CONTINENTAL IO-470-N<br>260 HP @ 2625 RPM                   | BHC-L2YF-4BF<br>FC8468AR                 | 84" NO CUT OFF        | A-2297                | <b>207</b>           |
| <b>BEECH</b><br>T34A MENTOR                     | SA1864SW<br>NOGLE & BLACK AV.          | CONTINENTAL IO-520-B,-BA,-BB & IO-550B<br>285 HP @ 2700 RPM | PHC-C3YF-1RF<br>F8468A-6R<br>F8468A-6R*1 | 80"                   | A-2295-1P<br>A-2295-1 | <b>208</b>           |
| <b>BEECH</b><br>T-34A, B Mentor                 | SA02773CH<br>Aircraft Product Systems  | Continental IO-550-R<br>300 HP @ 2700 RPM                   | HC-C3YF-1RF<br>F8068                     | 82"                   | A-2295-1P<br>A-2295-1 | <b>2948</b>          |
| <b>BEECH</b><br>35, A35 BONANZA                 | A-777                                  | CONTINENTAL E-185-1<br>HP @ RPM                             | HC-D2X20-7<br>8433                       |                       |                       | <b>2350</b>          |
| <b>BEECH</b><br>35, A35 BONANZA                 | A-777                                  | CONTINENTAL E-185-1<br>HP @ RPM                             | HC-D2X20-7<br>8433                       |                       |                       | <b>2416</b>          |
| <b>BEECH</b><br>35, A35 BONANZA                 | A-777                                  | CONTINENTAL E-185-1<br>HP @ RPM                             | HC-D2V20-7<br>V8433<br>V8433N            |                       |                       | <b>2351</b>          |
| <b>BEECH</b><br>35, A35 BONANZA                 | A777                                   | CONTINENTAL E-185-1<br>185 HP @ 2300 RPM                    | HC-D2MV20-7<br>MV8433N                   | 84" TO 82.5"          |                       | <b>164</b>           |
| <b>BEECH</b><br>35, A35, B35 BONANZA            | A-777                                  | CONTINENTAL E-185-1, E-185-8<br>HP @ RPM                    | HC-D2X20-7<br>8433                       |                       |                       | <b>2352</b>          |
| <b>BEECH</b><br>35, A35, B35 BONANZA            | A-777                                  | CONTINENTAL E-185-1, E-185-8<br>HP @ RPM                    | HC-D2V20-7<br>V8433<br>V8433N            |                       |                       | <b>2353</b>          |

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|--------------------------------------|--|---|---|-----------------------|-----------------|----------------------|
| <b>BEECH</b><br>35, A35, B35 BONANZA | A-777                                  | CONTINENTAL E-185-1, E-185-8<br>205 HP @ 2600 RPM                   | HC-D2MV20-7<br>MV8433N                  | 84" TO 82.5"          |                 | 165                  |
| <b>BEECH</b><br>S35, V35 BONANZA     | 3A15                                   | CONTINENTAL IO-520-B,-BA,-BB,-<br>N;TSIO-520-D<br>285 HP @ 2700 RPM | PHC-A3VF-4<br>V8433-2R<br>V8433N-2R     | 82.6" TO 78.25"       | 837-8           | 2084                 |
| <b>BEECH</b><br>V35A, V35B BONANZA   | 3A15                                   | CONTINENTAL IO-520-B,-BA,-BB,-<br>N;TSIO-520-D<br>285 HP @ 2700 RPM | PHC-A3VF-4<br>V8433-4R<br>V8433N-4R     | 82.6" TO 78.25"       | 837-8           | 2085                 |
| <b>BEECH</b><br>35-C33 DEBONAIR      | 3A15                                   | CONTINENTAL IO-470-K<br>225 HP @ 2600 RPM                           | PHC-A3VF-4<br>V8433-4R<br>V8433N-4R     | 80.0" TO 78.25"       | 837-9           | 2311                 |
| <b>BEECH</b><br>S35, V35 BONANZA     | 3A15                                   | CONTINENTAL IO-520-B,-BA,-BB,-<br>N;TSIO-520-D<br>285 HP @ 2700 RPM | PHC-A3MVF-4<br>MV8433N-2R<br>MV8433N-4R | 82.6" TO 78.25"       | 837-8           | 170                  |
| <b>BEECH</b><br>S35, V35 BONANZA     | 3A15                                   | CONTINENTAL IO-520-B,-BA,-BB,-<br>N;TSIO-520-D<br>285 HP @ 2700 RPM | PHC-A3VF-4<br>V8433-4R<br>V8433N-4R     | 82.6" TO 78.25"       | 837-8           | 2302                 |
| <b>BEECH</b><br>S35, V35 BONANZA     | 3A15                                   | CONTINENTAL IO-520-B,-BA,-BB,-<br>N;TSIO-520-D<br>285 HP @ 2700 RPM | PHC-A3MVF-4<br>MV8433N-2R<br>MV8433N-4R | 82.6" TO 78.25"       | 837-8           | 1564                 |
| <b>BEECH</b><br>V35A, V35B BONANZA   | 3A15                                   | CONTINENTAL IO-520-B,-BA,-BB,-<br>N;TSIO-520-D<br>285 HP @ 2700 RPM | PHC-A3MVF-4<br>MV8433N-4R               | 82.6" TO 78.25"       | 837-8           | 171                  |
| <b>BEECH</b><br>35 SERIES BONANZA    | STC-SA4-785<br>RK WILSON               | HP @ RPM  | HC-12X20-7D<br>8433                     | 84"                   |                 | 2090                 |

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|----------------------------|--|-----------------------|----------------------------------|-----------------------|-----------------|----------------------|
| BEECH<br>35 SERIES BONANZA | STC-SA4-785<br>RK WILSON               | HP @ RPM              | HC-12V20-7D<br>V8433<br>V8433N   | 84"                   |                 | 2091                 |
| BEECH<br>35 SERIES BONANZA | STC-SA4-785<br>R.K. WILSON             | HP @ RPM              | HC-D2X20-7<br>8433               |                       |                 | 2346                 |
| BEECH<br>35 SERIES BONANZA | STC-SA4-785<br>R.K. WILSON             | HP @ RPM              | HC-D2V20-7<br>V8433<br>V8433N    |                       |                 | 2347                 |
| BEECH<br>35 SERIES BONANZA | STC-SA4-785<br>RK WILSON               | HP @ RPM              | HC-D2MV20-7<br>MV8433N           | 84"                   |                 | 189                  |
| BEECH<br>35 SERIES BONANZA | STC-SA4-819<br>TORBET AIRCRAFT         | HP @ RPM              | HC-12X20-7D<br>8433              | 84"                   |                 | 2092                 |
| BEECH<br>35 SERIES BONANZA | STC-SA4-819<br>TORBET AIRCRAFT         | HP @ RPM              | HC-12V20-7D<br>V8433<br>V8433N   | 84"                   |                 | 2093                 |
| BEECH<br>35 SERIES BONANZA | STC-SA4-819<br>TORBET AIRCRAFT         | HP @ RPM              | HC-D2X20-7<br>8433               |                       |                 | 2348                 |
| BEECH<br>35 SERIES BONANZA | STC-SA4-819<br>TORBET AIRCRAFT         | HP @ RPM              | HC-D2V20-7<br>V8433<br>V8433N    |                       |                 | 2349                 |
| BEECH<br>35 SERIES BONANZA | STC-SA4-819<br>TORBET AIRCRAFT         | HP @ RPM              | HC-D2MV20-7<br>MV8433N           | 84"                   |                 | 190                  |
| BEECH<br>36 SERIES BONANZA | STC-SA4-1146<br>ALPHA AIRCRAFT         | HP @ RPM              | HC-DX20-7<br>8433                |                       |                 | 2340                 |

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|---|--|--|---|-----------------------|-----------------|----------------------|
| <b>BEECH</b><br>35 SERIES BONANZA                           | STC-SA4-1146<br>ALPHA AIRCRAFT         | HP @ RPM   | HC-D2V20-7<br>V8433<br>V8433N                 |                       |                 | 2341                 |
| <b>BEECH</b><br>35 SERIES BONANZA                           | STC-SA4-1146<br>ALPHA AIRCRAFT         | HP @ RPM   | HC-D2MV20-7<br>MV8433N                        | 84"                   |                 | 186                  |
| <b>BEECH</b><br>35 SERIES BONANZA                           | STC-SA4-1305<br>ALPHA AIRCRAFT         | HP @ RPM   | HC-D2X20-7<br>8433                            |                       |                 | 2342                 |
| <b>BEECH</b><br>35 SERIES BONANZA                           | STC-SA4-1305<br>ALPHA AIRCRAFT         | HP @ RPM   | HC-D2V20-7<br>V8433<br>V8433N                 |                       |                 | 2343                 |
| <b>BEECH</b><br>35 SERIES BONANZA                           | STC-SA4-1305<br>CHANDLER AIRCRAFT      | HP @ RPM   | HC-D2MV20-7<br>MV8433N                        | 84"                   |                 | 187                  |
| <b>BEECH</b><br>35 SERIES BONANZA                           | STC-SA609SW<br>HUTCHISON AIRCRAFT      | HP @ RPM   | PHC-83VF-4, PHC-A3VF-4<br>V8433-4<br>V8433N-4 | 80.6"                 | 837-8           | 2094                 |
| <b>BEECH</b><br>35 SERIES BONANZA                           | STC-SA609SW<br>HUTCHISON AIRCRAFT      | HP @ RPM   | PHC-A3MVF-4<br>MV8433N-4                      | 80.6"                 | 837-8           | 191                  |
| <b>BEECH</b><br>35, A35, B35, C35, D35, E35, F35<br>BONANZA | STC-SA1-570<br>HARTZELL PROPELLER      | CONTINENTAL E-185-8, -11, -1; E-225-8<br>205 HP @ 2600 RPM | HC-A2X20-4A1<br>8433                          | 84" TO 82.5"          |                 | 2354                 |
| <b>BEECH</b><br>35,A35,B35,C35,D35,E35,F35<br>BONANZA       | STC-SA1-570<br>HARTZELL PROPELLER      | CONTINENTAL E-185-8, -11, -1; E-225-8<br>205 HP @ 2600 RPM | HC-A2X20-4A1<br>8433                          | 84" TO 82.5"          | 837-6           | 2086                 |

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|---|--|--|--|-----------------------|-----------------|----------------------|
| <b>BEECH</b><br>35, A35, B35, C35, D35, E35, F35<br>BONANZA | STC-SA1-570<br>HARTZELL PROPELLER      | CONTINENTAL E-185-8, -11, -1; E-225-8<br>205 HP @ 2600 RPM | HC-A2V20-4A1<br>V8433<br>V8433N<br>V8833-4                 | 84" TO 82.5"          |                 | 2355                 |
| <b>BEECH</b><br>35, A35, B35, C35, D35, E35, F35<br>BONANZA | STC-SA1-570<br>HARTZELL PROPELLER      | CONTINENTAL E-185-8, -11, -1; E-225-8<br>205 HP @ 2600 RPM | HC-A2V20-4A1<br>V8433<br>V8433N<br>V8833-4                 | 84" TO 82.5"          | 837-6           | 2087                 |
| <b>BEECH</b><br>35, A35, B35, C35, D35, E35, F35<br>BONANZA | STC-SA1-570<br>HARTZELL PROPELLER      | CONTINENTAL E-185-8, -11, -1; E-225-8<br>205 HP @ 2600 RPM | HC-A2MV20-4A1<br>MV8433N                                   | 84" TO 82.5"          | 837-6           | 176                  |
| <b>BEECH</b><br>35 SERIES BONANZA                           | STC-SA4-550<br>MIKE TRUDEAU            | CONTINENTAL E-228-8<br>HP @ RPM                            | HC-D2X20-7<br>8433   |                       |                 | 2344                 |
| <b>BEECH</b><br>35 SERIES BONANZA                           | STC-SA4-550<br>MIKE TRUDEAU            | CONTINENTAL E-225-8<br>HP @ RPM                            | HC-D2V20-7<br>V8433<br>V8433N                              |                       |                 | 2345                 |
| <b>BEECH</b><br>35 SERIES BONANZA                           | STC-SA4-550<br>D. H. MORETON           | CONTINENTAL E-225-8<br>205 HP @ 2600 RPM                   | HC-D2MV20-7<br>MV8433N                                     | 84"                   |                 | 188                  |
| <b>BEECH</b><br>G35, 35R BONANZA                            | STC-SA1-570<br>HARTZELL PROPELLER      | CONTINENTAL E-225-8<br>205 HP @ 2600 RPM                   | HC-A2X20-4A1<br>8433-4<br>8833-4                           | 84" TO 82.5"          | 837-6           | 2088                 |
| <b>BEECH</b><br>G35, 35R BONANZA                            | STC-SA1-570<br>HARTZELL PROPELLER      | CONTINENTAL E-225-8<br>205 HP @ 2600 RPM                   | HC-A2V20-4A1<br>V8433-4<br>V8433N-4<br>V8833-4<br>V8833N-4 | 84" TO 82.5"          | 837-6           | 2089                 |

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|--|--|---|--|-----------------------|-----------------|----------------------|
| <b>BEECH</b><br>G35, 35R BONANZA                 | STC-SA1-570<br>HARTZELL PROPELLER      | CONTINENTAL E-225-8<br>205 HP @ 2600 RPM            | HC-A2MV20-4A1<br>MV8433N<br>MV8833N-4    | 84" TO 82.5"          | 837-6           | 177                  |
| <b>BEECH</b><br>35 SERIES BONANZA                | STC-SA1-569<br>D'SHANNON PRODUCTS      | CONTINENTAL IO-470-J<br>225 HP @ 2600 RPM           | BHC-92ZF-1D1<br>8447                     | 84"                   | 837-3<br>837-4  | 183                  |
| <b>BEECH</b><br>35-C33 DEBONAIR                  | 3A15                                   | CONTINENTAL IO-470-K<br>225 HP @ 2600 RPM           | PHC-A3MVF-4<br>MV8433N-4R<br>MV8433N-4RD | 80.0" TO 78.25"       | 837-9           | 168                  |
| <b>BEECH</b><br>S35, V35, V35B, 36, A36 BONANZA  | STC-SA785CE<br>HARTZELL PROPELLER      | CONTINENTAL IO-520-BA,-BB<br>285 HP @ 2700 RPM      | BHC-C2YF-1B(F)<br>F8468AR                | 84" TO 82"            | A-2295          | 179                  |
| <b>BEECH</b><br>J35A BONANZA                     | STC-SA686CE<br>AEROSTOL CO.            | CONTINENTAL IO-520<br>250 HP @ 2700 RPM             | HC-C3YF-1<br>F8468A-8R                   | 78"                   | C-3535-1        | 192                  |
| <b>BEECH</b><br>S35,V35,V35A,V35B,36,A36 BONANZA | GERMAN STC<br>MT PROPELLER             | CONTINENTAL IO-520-B, -BA, -BB<br>285 HP @ 2700 RPM | PHC-C3YF-1RF<br>F7663D-2Q                | 76.0" NO CUT OFF      | A-2295-1P       | 172                  |
| <b>BEECH</b><br>(A thru V)35, V35(A,B) BONANZA   | STC-SA2200SW<br>D'SHANNON PRODUCTS     | CONTINENTAL IO-520-B, -BA, -BB<br>285 HP @ 2700 RPM | PHC-C3YF-1RF<br>F8468A-6R                | 80.0" TO 78.0"        | A-2295-1P       | 1239                 |
| <b>BEECH</b><br>(A thru V)35(A,B) BONANZA        | STC-SA2200SW<br>D'SHANNON PRODUCTS     | CONTINENTAL IO-520-B,-BA,-BB<br>285 HP @ 2700 RPM   | PHC-L3YF-1RF<br>F8468A-6R                | 80.0" TO 78.0"        | A-2295-1P       | 1234                 |
| <b>BEECH</b><br>H35 THRU V35B BONANZA            | STC-SA1773NM<br>RAY RAINER             | LYCOMING IO-540-K1A5<br>300 HP @ 2700 RPM           | HC-F2YR-1F<br>F8475D-4                   | 80" TO 78"            | A-2295-P        | 184                  |
| <b>BEECH</b><br>(A thru V)35, V35(A,B) BONANZA   | STC-SA2200SW<br>D'SHANNON PRODUCTS     | CONTINENTAL IO-550-B<br>300 HP @ 2700 RPM           | PHC-C3YF-1RF<br>F8468A-6R                | 80.0" TO 78.0"        | A-2295-1P       | 1240                 |
| <b>BEECH</b><br>(A thru V)35, V35(A,B) BONANZA   | STC-SA2200SW<br>D'SHANNON PRODUCTS     | CONTINENTAL IO-550-B<br>300 HP @ 2700 RPM           | PHC-C3YF-1RF<br>F7691                    | 78.0" TO 77.0"        | A-2295-1P       | 1245                 |

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|--|--|---|--|-----------------------|-----------------|----------------------|
| <b>BEECH</b><br>(A thru V)35, V35(A,B) BONANZA | STC-SA2200SW<br>D'SHANNON PRODUCTS     | CONTINENTAL IO-550-B<br>300 HP @ 2700 RPM                   | PHC-L3YF-1RF<br>F8468A-6R                              | 80.0" TO 78.0"        | A-2295-1P       | 1235                 |
| <b>BEECH</b><br>36, A36 BONANZA                | 3A15                                   | CONTINENTAL IO-520-B,-BA,-BB<br>285 HP @ 2700 RPM           | PHC-C3YF-1RF<br>F8468A-6R                              | 80" TO 78"            | A-2295-1P       | 199                  |
| <b>BEECH</b><br>36, A36 BONANZA                | 3A15                                   | CONTINENTAL IO-520-B,-BA,-BB; IO-550-B<br>285 HP @ 2550 RPM | PHC-C3YF-1RF<br>F7663-2R<br>F7663K-2R                  | 76.0" TO 75.5"        | A-2295-1P       | 200                  |
| <b>BEECH</b><br>A36TC BONANZA                  | 3A15                                   | CONTINENTAL TSIO-520-U,-UB<br>300 HP @ 2700 RPM             | PHC-C3YF-1RF<br>F8468A-6R<br>F8468AK-6R                | 80.0" TO 78.0"        | A-2295-1P       | 205                  |
| <b>BEECH</b><br>36, A36 BONANZA                | STC-SA2200SW<br>D'SHANNON PRODUCTS     | CONTINENTAL IO-520-B, -BA, -BB<br>285 HP @ 2700 RPM         | PHC-C3YF-1RF<br>F8468A-6R                              | 80.0" TO 78.0"        | A-2295-1P       | 1241                 |
| <b>BEECH</b><br>36, A36 BONANZA                | STC-SA2200SW<br>D'SHANNON PRODUCTS     | CONTINENTAL IO-520-B,-BA,-BB<br>285 HP @ 2700 RPM           | PHC-L3YF-1RF<br>F8468A-6R                              | 80.0" TO 78.0"        | A-2295-1P       | 1236                 |
| <b>BEECH</b><br>36, A36 BONANZA                | STC-SA2200SW<br>D'SHANNON PRODUCTS     | CONTINENTAL IO-520-B, -BA, -BB<br>285 HP @ 2700 RPM         | PHC-C3YF-1RF<br>F7691                                  | 78.0" TO 77.0"        | A-2295-1P       | 1246                 |
| <b>BEECH</b><br>36, A36 BONANZA                | STC-SA450CH<br>D'SHANNON PRODUCTS      | CONTINENTAL IO-520-B, -BA, -BB<br>285 HP @ 2700 RPM         | PHC-C3YF-1RF<br>F7691                                  | 78.0" TO 77.0"        | A-2295-1P       | 1179                 |
| <b>BEECH</b><br>B36TC BONANZA                  | STC-SA00718LA<br>HARTZELL PROPELLER    | CONTINENTAL TSIO-520-U,-UB<br>300 HP @ 2700 RPM             | PHC-C3YF-1RF<br>F8468A-8R<br>F8468AK-8R                | 78.0" TO 77.0"        | A-2295-2P       | 1532                 |
| <b>BEECH</b><br>B36TC BONANZA                  | STC-SA00718LA<br>HARTZELL PROPELLER    | CONTINENTAL TSIO-520-U,-UB<br>300 HP @ 2700 RPM             | PHC-C3YF-1RF<br>F8468A-8R<br>F8468A-8R*1<br>F8468AK-8R | 78.0" TO 77.0"        | A-2295-2P       | 1596                 |

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|--|--|--|---|-----------------------|---------------------------------|----------------------|
| <b>BEECH</b><br>A36 BONANZA  | STC-SA762NM<br>MACHEN INC.             | LYCOMING TIO-540-J2BD<br>350 HP @ 2575 RPM | HC-F3YR-1RF<br>F8468A-8Q                | 78"                   | A-2295-1P                       | 203                  |
| <b>BEECH</b><br>36, A36 BONANZA  | STC-SA2200SW<br>D'SHANNON PRODUCTS     | CONTINENTAL IO-550-B<br>300 HP @ 2700 RPM  | PHC-C3YF-1RF<br>F7691                   | 78.0" TO 77.0"        | A-2295-1P                       | 1247                 |
| <b>BEECH</b><br>36, A36 BONANZA  | STC-SA2200SW<br>D'SHANNON PRODUCTS     | CONTINENTAL IO-550-B<br>300 HP @ 2700 RPM  | PHC-C3YF-1RF<br>F8468A-6R               | 80.0" TO 78.0"        | A-2295-1P                       | 1242                 |
| <b>BEECH</b><br>36, A36 BONANZA  | STC-SA2200SW<br>D'SHANNON PRODUCTS     | CONTINENTAL IO-550-B<br>300 HP @ 2700 RPM  | PHC-L3YF-1RF<br>F8468A-6R               | 80.0" TO 78.0"        | A-2295-1P                       | 1237                 |
| <b>BEECH</b><br>A36 BONANZA  | STC-SA450CH<br>D'SHANNON PRODUCTS      | CONTINENTAL IO-550-B<br>300 HP @ 2700 RPM  | PHC-C3YF-1RF<br>F7691                   | 78.0" TO 77.0"        | A-2295-1P                       | 1178                 |
| <b>BEECH</b><br>A36, G36 BONANZA   | STC-SA00719LA<br>HARTZELL PROPELLER    | CONTINENTAL IO-550-B<br>300 HP @ 2700 RPM  | PHC-C3YF-1RF<br>F8468A-6R<br>F8468AK-6R | 80.0" TO 78.0"        | A-2295-2P                       | 1531                 |
| <b>BEECH</b><br>A36, G36 BONANZA   | STC-SA00719LA<br>HARTZELL PROPELLER    | CONTINENTAL IO-550-B<br>300 HP @ 2700 RPM  | PHC-C3YF-1RF<br>F8468A-6R<br>F8468AK-6R | 80.0" TO 78.0"        | A-2295-2P                       | 1597                 |
| <b>BEECH</b><br>A36 STARFIRE BONANZA                                       | STC-SA1835SO<br>COLEMILL               | CONTINENTAL IO-550-B<br>300 HP @ 2700 RPM  | HC-C4YF-1E<br>F7063Q                    | 73.75" NO CUT OFF     | D-5421-P<br>D-4511-1P           | 185                  |
| <b>BEECH</b><br>A36, A36TC BONANZA   | STC-SA3523NM<br>TRADEWIND TURBINES     | ALLISON 250-B17F/2<br>440 HP @ 2030 RPM    | HC-B3TF-7A<br>T9212K-2*1                | 90.0" TO 88.0"        | 835-39EP<br>835-39E             | 201                  |
| <b>BEECH</b><br>35-C33A, (A)36, (E,F)33(A,C), (S,V)35,<br>V35(A,B) BONANZA | SA10145SC<br>ATLANTIC AERO             | CONTINENTAL IO-550-R<br>310 HP @ 2700 RPM  | PHC-J3YF-1RF<br>F8068                   | 82"                   | C-4582<br>C-4582-P<br>A-2295-1P | 1764                 |



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|--|--|---|---|-----------------------|------------------------|----------------------|
| <b>BEECH</b><br>B36TC TURBINE AIR                        | STC SA01156SE<br>WEST PACIFIC AIR LLC  | PRATT & WHITNEY PT6A-21<br>500 HP @ 2200 RPM                    | HC-E4N-3N<br>D8292  | 82.5"                 | D-630-1<br>D-630-1P    | <b>1848</b>          |
| <b>BEECH</b><br>B50 TWIN BONANZA                         | 5A4                                    | LYCOMING GO-435-C2B<br>260 HP @ 2182 RPM                        | HC-83X20-2C<br>9333C-3  | 90.6" NO CUT OFF      | 835-10S                | <b>2095</b>          |
| <b>BEECH</b><br>B50 TWIN BONANZA                         | 5A4                                    | LYCOMING GO-435-C2B<br>HP @ RPM                                 | HC-A3X20-2<br>V9333N-3  |                       |                        | <b>2361</b>          |
| <b>BEECH</b><br>B50 TWIN BONANZA                         | 5A4                                    | LYCOMING GO-435-C2B<br>HP @ RPM                                 | HC-A3V20-2<br>V9333N-3  |                       |                        | <b>2362</b>          |
| <b>BEECH</b><br>B50 TWIN BONANZA                         | 5A4                                    | LYCOMING GO-435-C2B<br>260 HP @ 2182 RPM                        | HC-A3MV20-2<br>MV9333N-3  | 90.6" NO CUT OFF      | 835-10S                | <b>210</b>           |
| <b>BEECH</b><br>D50, D50A, D50B, D50C, D50E TWIN BONANZA | 5A4                                    | LYCOMING GO-480-C2(C,D)6,-G2D6,-G2F6<br>295 HP @ 2182 RPM       | HC-A3XF-2A, HC-83XF-2A, HC-A3XF-2, HC-83XF-2<br>9333C-3                   | 90.6" TO 89"          | 836-18P                | <b>2096</b>          |
| <b>BEECH</b><br>D50, D50A, D50B, D50C, D50E TWIN BONANZA | 5A4                                    | LYCOMING GO-480-C2(C,D)6,-G2D6,-G2F6<br>295 HP @ 2182 RPM       | HC-A3VF-2A, HC-83VF-2A, HC-A3VF-2, HC-83VF-2<br>V9333C-3<br>V9333N-3      | 90.6" TO 89"          | 836-18P                | <b>2097</b>          |
| <b>BEECH</b><br>D50, D50A, D50B, D50C, D50E TWIN BONANZA | 5A4                                    | LYCOMING GO-480-C2(C,D)6,-G2D6,-G2F6<br>295 HP @ 2182 RPM       | HC-A3MV20-2<br>MV9333N-3  | 90.6" TO 89"          | 836-18P                | <b>211</b>           |
| <b>BEECH</b><br>E50, F50, G50, H50 TWIN BONANZA          | 5A4                                    | LYCOMING GSO-480-A1A6,-B1B6; IGSO-480-A1A6<br>340 HP @ 2182 RPM | HC-93Z20-2C1<br>10151-8<br>10151-8R<br>10151N-8<br>10151N-8R<br>L10151N-8 | 93" TO 90"            | 836-21SPR<br>836-20SPR | <b>212</b>           |

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|---|--|---|--|-----------------------|------------------------|----------------------|
| <b>BEECH</b><br>J50 TWIN BONANZA                | 5A4                                    | LYCOMING IGSO-480-A1B6<br>340 HP @ 2182 RPM                     | HC-93Z20-2C1, -2A<br>10151-8<br>10151-8R<br>10151N-8<br>10151N-8R        | 93" TO 90"            | 836-21SPR<br>836-20SPR | 213                  |
| <b>BEECH</b><br>E50, F50, G50, H50 TWIN BONANZA | 5A4                                    | LYCOMING GSO-480-A1A6,-B1B6; IGSO-480-A1A6<br>340 HP @ 2182 RPM | HC-B3Z20-2A<br>10151-8<br>10151-8R<br>10151N-8<br>10151N-8R<br>L10151N-8 | 93" TO 90"            | 836-21SPR<br>836-20SPR | 1761                 |
| <b>BEECH</b><br>50 SERIES TWIN BONANZA          | STC-SA2-1<br>HOMER J. PENWELL          | LYCOMING GO-435-C2B<br>260 HP @ 2182 RPM                        | HC-83X20-2, HC-A3X20-2   | 90.6"                 | 835-10S                | 2098                 |
| <b>BEECH</b><br>50 SERIES TWIN BONANZA          | STC-SA2-1<br>HOMER J. PENWELL          | LYCOMING GO-435-C2B<br>260 HP @ 2182 RPM                        | HC-83V20-2, HC-A3V20-2<br>V9333N-3                                       | 90.6"                 | 835-10S                | 2099                 |
| <b>BEECH</b><br>50 SERIES TWIN BONANZA          | STC-SA2-1<br>HOMER J. PENWELL          | LYCOMING GO-435-C2B<br>260 HP @ 2182 RPM                        | HC-A3MV20-2<br>MV9333N-3   | 90.6"                 | 835-10S                | 214                  |
| <b>BEECH</b><br>C50 TWIN BONANZA                | STC-SA2-233<br>JORDAN PROPELLER        | LYCOMING GO-480-F4B6, -F4A6<br>275 HP @ 2182 RPM                | HC-83XF-2A, HC-83XF-2<br>9333C-3   | 90.6"                 | 836-18P<br>836-19P     | 2100                 |
| <b>BEECH</b><br>C50 TWIN BONANZA                | STC-SA2-233<br>JORDAN PROPELLER        | LYCOMING GO-480-F4B6, -F4A6<br>275 HP @ 2182 RPM                | HC-A3MV20-2<br>MV9333N-3   | 90.6"                 | 836-18P<br>836-19P     | 215                  |
| <b>BEECH</b><br>C50 TWIN BONANZA                | STC-SA360/242SW<br>EXALIBER AVIATION   | LYCOMING GO-480-G2D6, -G2F6<br>295 HP @ 2182 RPM                | HC-A3MV20-2<br>MV9333N-3   | 90.6" TO 89.6"        | 836-25P<br>836-26P     | 221                  |
| <b>BEECH</b><br>50 SERIES TWIN BONANZA          | STC-SA2-602<br>AIRCRAFTSMEN INC        | LYCOMING GO-480-F2A6<br>295 HP @ 2182 RPM                       | HC-83X20-2, HC-A3X20-2<br>9333C-3  | 90.6"                 |                        | 2101                 |

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|---|--|--|--|-----------------------|-----------------|----------------------|
| <b>BEECH</b><br>50 SERIES TWIN BONANZA    | STC-SA2-602<br>AIRCRAFTSMEN INC        | LYCOMING GO-480-F2A6<br>295 HP @ 2182 RPM                      | HC-83V20-2, HC-A3V20-2<br>V9333C-3<br>V9333N-3 | 90.6"                 |                 | 2102                 |
| <b>BEECH</b><br>50 SERIES TWIN BONANZA    | STC-SA2-602<br>AIRCRAFTSMEN INC        | LYCOMING GO-480-F2A6<br>275 HP @ 2182 RPM                      | HC-A3MV20-2<br>MV9333N-3                       | 90.6"                 |                 | 216                  |
| <b>BEECH</b><br>50 SERIES TWIN BONANZA    | STC-SA2-602<br>AIRCRAFTSMEN INC        | LYCOMING GO-480-F4B6<br>295 HP @ 2182 RPM                      | HC-83XF-2A, HC-A3XF-2A<br>9333C-3              | 90.6"                 |                 | 2103                 |
| <b>BEECH</b><br>50 SERIES TWIN BONANZA    | STC-SA2-602<br>AIRCRAFTSMEN INC        | LYCOMING GO-480-F4B6<br>295 HP @ 2182 RPM                      | HC-83VF-2A, HC-A3VF-2A<br>V9333C-3<br>V9333N-3 | 90.6"                 |                 | 2104                 |
| <b>BEECH</b><br>50 SERIES TWIN BONANZA    | STC-SA2-602<br>AIRCRAFTSMEN INC        | LYCOMING GO-480-F4B6<br>275 HP @ 2182 RPM                      | HC-A3MV20-2<br>MV9333N-3                       | 90.6"                 |                 | 217                  |
| <b>BEECH</b><br>50, B50, C50 TWIN BONANZA | STC-SA2-66                             | LYCOMING GO-480-B, -B1B, -B1C, -B1D, -F2A<br>270 HP @ 2182 RPM | HC-A3X20-2                                     |                       |                 | 2359                 |
| <b>BEECH</b><br>50, B50, C50 TWIN BONANZA | STC-SA2-66                             | LYCOMING GO-480-B, B1B, B1C, B1D, F2A<br>270 HP @ 2182 RPM     | HC-A3V20-2<br>V9333N-3                         |                       |                 | 2360                 |
| <b>BEECH</b><br>50, B50, C50 TWIN BONANZA | STC-SA2-66<br>HOMER J. PENWELL         | LYCOMING GO-480-B, -B1B, -B1C, -B1D, -F2A<br>270 HP @ 2182 RPM | HC-A3MV20-2<br>MV9333N-3                       | 90.6"                 |                 | 218                  |
| <b>BEECH</b><br>50 SERIES TWIN BONANZA    | STC-SA2-665<br>EL PASO NAT. GAS        | LYCOMING GO-480-C3C6, -C2D6<br>295 HP @ 2182 RPM               | HC-83XF-2A, HC-A3XF-2A<br>9333C-3              | 90.6"                 |                 | 2105                 |
| <b>BEECH</b><br>50 SERIES TWIN BONANZA    | STC-SA2-665<br>EL PASO NAT. GAS        | LYCOMING GO-480-C3C6, -C2D6<br>295 HP @ 2182 RPM               | HC-83VF-2A, HC-A3VF-2A<br>V9333C-3<br>V9333N-3 | 90.6"                 |                 | 2106                 |

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|--|--|--|--|-----------------------|-----------------------------------|----------------------|
| <b>BEECH</b><br>50 SERIES TWIN BONANZA   | STC-SA2-665<br>EL PASO NAT. GAS        | LYCOMING GO-480-C3C6, -C2D6<br>295 HP @ 2182 RPM | HC-A3MVF-2A<br>MV9333N-3                                 | 90.6"                 |                                   | 219                  |
| <b>BEECH</b><br>50 SERIES TWIN BONANZA   | STC-SA2-87, 93                         | LYCOMING GO-480-C2C6, -C2D6<br>295 HP @ 3400 RPM | HC-A3X20-2<br>9333C-3                                    |                       |                                   | 2357                 |
| <b>BEECH</b><br>50 SERIES TWIN BONANZA   | STC-SA2-87, 93                         | LYCOMING GO-480-C2C6, C2D6<br>295 HP @ 3400 RPM  | HC-A3V20-2<br>V9333C-3<br>V9333N-3                       |                       |                                   | 2358                 |
| <b>BEECH</b><br>50 SERIES TWIN BONANZA   | STC-SA2-87,93<br>TULSAIR DEST.         | LYCOMING GO-480-C2C6, -C2D6<br>295 HP @ 2182 RPM | HC-A3MV20-2<br>MV9333N-3                                 | 90.6"                 | 836-22S<br>836-20S                | 220                  |
| <b>BEECH</b><br>D50(A,B,C,E), E50, F50, G50, H50, J50<br>EXCALIBUR 800 (BEECH TWIN<br>BONANZA) | SA587SW<br>Bemidji Aviation Services   | LYCOMING IO-720-A1A<br>400 HP @ 2650 RPM         | HC-A3VK-2A<br>MV8433NB-4                                 | 80"                   |                                   | 2799                 |
| <b>BEECH</b><br>95-55, -55A, -B55, -B55A, -B55B<br>BARON                                       | STC-SA795CE<br>HARTZELL PROPELLER      | CONTINENTAL IO-470-L<br>260 HP @ 2625 RPM        | DHC-C2YF-2CH(U)(F)<br>FC8465-6                           | 78" TO 76.5"          | C-2285-6<br>C-2285-1<br>C-2285-6P | 229                  |
| <b>BEECH</b><br>95-55, -A55, -B55, -B55A, -B55B<br>BARON                                       | STC-SA795CE<br>HARTZELL PROPELLER      | CONTINENTAL IO-470-L<br>260 HP @ 2625 RPM        | BHC-C2YF-2CH(U)(F)<br>FC8465-6<br>FC8465-6*1             | 78" TO 76.5"          | C-2285-6<br>C-2285-1<br>C-2285-6P | 230                  |
| <b>BEECH</b><br>95-55, -A55, -B55, -B55A, -B55B<br>BARON                                       | STC-SA795CE<br>HARTZELL PROPELLER      | CONTINENTAL IO-470-L<br>260 HP @ 2625 RPM        | PHC-C3YF-2UF<br>FC7663-2R<br>FC7663-2R*2<br>FC7663B-2R*3 | 76.0" TO 74.5"        | C-3567-1<br>C-3567-1P             | 231                  |
| <b>BEECH</b><br>95-55, -A55, -B55 BARON  | STC-SA126CE<br>HARTZELL PROPELLER      | CONTINENTAL IO-470<br>260 HP @ 2625 RPM          | HC-A3VF-2B, PHC-A3VF-2B<br>V7636                         | 76.3" NO CUT OFF      | 836-37<br>836-36                  | 2107                 |

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|---|--|---|--|-----------------------|---|----------------------|
| <b>BEECH</b><br>95-55, -A55, -B55 BARON                     | SA126CE<br>HARTZELL PROPELLER          | CONTINENTAL IO-470-L<br>260 HP @ 2625 RPM           | PHC-A3MVF-2B<br>MV7636N<br>MV7636NB*1                        | 76.25"                | 836-37<br>836-36<br>836-37P<br>836-36P                    | <b>2039</b>          |
| <b>BEECH</b><br>95-55, -A55, -B55 BARON                     | STC-SA126CE<br>HARTZELL PROPELLER      | CONTINENTAL IO-470<br>260 HP @ 2625 RPM             | (P)HC-A3MVF-2B<br>MV7636N                                    | 76.3" NO CUT OFF      | 836-37<br>836-36  | <b>222</b>           |
| <b>BEECH</b><br>95-C55(A), D55(A), E55(A) BARON             | STC-SA773CE<br>HARTZELL PROPELLER      | CONTINENTAL IO-520-C, -CB<br>285 HP @ 2700 RPM      | BHC-C2YF-2C(H)(U)(F)<br>FC8475-6                             | 78" TO 77"            | C-2285-6P<br>C-2285-1P<br>C-2285-6<br>C-2285-1            | <b>225</b>           |
| <b>BEECH</b><br>95-C55(A), D55(A), E55(A) BARON             | STC-SA773CE<br>HARTZELL PROPELLER      | CONTINENTAL IO-520-C, -CB<br>285 HP @ 2700 RPM      | BHC-C2YF-2C(H)(U)(F)<br>FC8475-6*1                           | 78" TO 76"            | C-2285-6P<br>C-2285-1P<br>C-2285-6<br>C-2285-1            | <b>223</b>           |
| <b>BEECH</b><br>E55, E55A BARON                             | STC-SA773CE<br>HARTZELL PROPELLER      | CONTINENTAL IO-520-C<br>285 HP @ 2700 RPM           | BHC-J2YF-2CU(F)<br>FC8475-6<br>FC8475-6*1                    | 78" TO 76"            | C-2285-1P<br>C-2285-1<br>C-2285-6<br>C-2285-5<br>C-2285-4 | <b>227</b>           |
| <b>BEECH</b><br>95-55, -A55, -B55, -B55A, -B55B BARON       | STC SA432SO<br>COLEMILL ENTERPRISES    | CONTINENTAL IO-520-E, IO-550-E<br>260 HP @ 2700 RPM | EHC-G3YF-2UF<br>FC7663D-4T                                   | 74.0" NO CUT OFF      | C-3567-1<br>C-3567-1P                                     | <b>233</b>           |
| <b>BEECH</b><br>D55, D55A, E55, E55A, 95-C55, 95-C55A BARON | STC-SA773CE<br>HARTZELL PROPELLER      | CONTINENTAL IO-520-C, -CB<br>285 HP @ 2700 RPM      | PHC-C3YF-2(U)(F)<br>FC7663-2R<br>FC7663-2R*2<br>FC7663B-2R*3 | 76" TO 74"            | C-3567-4P<br>C-3567-4<br>C-3567-1P<br>C-3567-1            | <b>226</b>           |

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|---|--|--|---|-----------------------|--|----------------------|
| <b>BEECH</b><br>E55, E55A BARON                   | STC-SA773CE<br>HARTZELL PROPELLER          | CONTINENTAL IO-520-C<br>285 HP @ 2700 RPM        | PHC-J3YF-2(U)(F)<br>FC7663-2R   | 76" TO 74"            | C-3567-4P                              | <b>228</b>           |
| <b>BEECH</b><br>95-55, -A55, -B55 BARON           | STC-SA432SO<br>COLEMILL                    | CONTINENTAL IO-520-E<br>260 HP @ 2700 RPM        | EHC-A3MVF-2B<br>MV7636N<br>MV7636N-2R<br>MV7636NB<br>MV7636NB-2R<br>MV7636NB-2R*1<br>V7636NB-2R | 74.6"                 | 836-37<br>836-36<br>836-37P<br>836-36P | <b>237</b>           |
| <b>BEECH</b><br>95-C55, -D55, -E55; 58, 58A BARON | STC-SA3845SW<br>D'SHANNON PRODUCTS         | CONTINENTAL IO-550-C<br>300 HP @ 2700 RPM        | PHC-J3YF-2UF<br>FC7663-2R<br>FC7663B-2R*3   | 76"                   | C-3567-1P                              | <b>235</b>           |
| <b>BEECH</b><br>C55, D55, E55, 58 FOXSTAR BARON   | STC-SA1762SO<br>Mike Jones Aircraft        | CONTINENTAL IO-550-C<br>300 HP @ 2700 RPM        | HC-C4YF-2E<br>FC7063Q   | 74.25"                | D-4511-P                               | <b>236</b>           |
| <b>BEECH</b><br>56TC, A56TC TURBO BARON           | 3A16                                       | LYCOMING TIO-541-E1B4<br>380 HP @ 2900 RPM       | HC-F3YR-2(U)(F)<br>FC7479-2R<br>FC7479B-2R*1  | 74" NO CUT OFF        | D-3273-P<br>D-3273<br>C-3269           | <b>239</b>           |
| <b>BEECH</b><br>56TC BARON                        | SA01270NY<br>Randolph Bazet                | LYCOMING IO-540-K1B5<br>300 HP @ 2700 RPM        | HC-F3YR-2U(F)<br>FC8468-6R*3  | 80                    | C-3269P<br>D-3273-P                    | <b>2464</b>          |
| <b>BEECH</b><br>58P, 58PA BARON                   | A23CE                                      | CONTINENTAL TSIO-520-L, -LB<br>310 HP @ 2700 RPM | PHC-J3YF-2(U)F<br>FC8468-6R<br>FC8468B-6R*2   | 80" TO 79.5"          | C-3567-1P                              | <b>240</b>           |
| <b>BEECH</b><br>58P, 58PA, 58TC, 58TCA BARON      | A23CE                                      | CONTINENTAL TSIO-520-WB<br>325 HP @ 2700 RPM     | PHC-J3YF-2(U)F<br>FC7663DR<br>FC7663DRB<br>FC7663DRB*1  | 78" TO 77.5"          | C-3567-1P<br>C-3567-1<br>C-3567        | <b>241</b>           |

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|------------------------------------|--|--|--|-----------------------|--|----------------------|
| <b>BEECH</b><br>58, 58A BARON      | STC-SA773CE<br>HARTZELL PROPELLER      | CONTINENTAL IO-520-C<br>285 HP @ 2700 RPM                            | BHC-J2YF-2C(U)(F)<br>FC8475-6<br>FC8475-6*1<br>FC8475B-6*1         | 78" TO 76"            | C-2285-4P<br>C-2285-4<br>C-2285-5<br>C-2285-6<br>C-2285-1<br>C-2285            | <b>246</b>           |
| <b>BEECH</b><br>58, 58A BARON      | STC-SA773CE<br>HARTZELL PROPELLER      | CONTINENTAL IO-520-C<br>285 HP @ 2700 RPM                            | BHC-J2YF-2CU(F)<br>FC8475-6<br>FC8475-6*1<br>FC8475B-6*1           | 78" TO 76"            | C-2285P<br>C-2285-1P<br>C-2285-1<br>C-2285<br>C-2285-6<br>C-2285-5<br>C-2285-4 | <b>247</b>           |
| <b>BEECH</b><br>58, 58A, G58 BARON | SA 10551SC<br>HARTZELL PROPELLER INC   | CONTINENTAL IO-550-C<br>300 HP @ 2700 RPM                            | PHC-J3YF-2UF<br>FC7391D  | 75"                   | C-3567-4P<br>C-3567-1P   | <b>2492</b>          |
| <b>BEECH</b><br>58, 58A, G58 BARON | SA10551SC<br>HARTZELL PROPELLER INC    | CONTINENTAL IO-550-C<br>300 HP @ 2700 RPM                            | PHC-J3YF-2UF<br>FC7391D*1<br>FC7391D*2<br>FC7391DK*1<br>FC7391DK*2 | 75-73"                | C-3567-4<br>C-3567-1<br>C-3567-4P<br>C-3567-1P                                 | <b>2885</b>          |
| <b>BEECH</b><br>58, 58A BARON      | SA02561CH-D<br>HARTZELL PROPELLER      | CONTINENTAL IO-520-C, -CB (IO-550-C,<br>300 HP)<br>285 HP @ 2700 RPM | PHC-J3YF-2UF<br>FC7391DB*1<br>FC7391DB*4                           | 75"-73"               | C-3567-8P<br>C-3567-8<br>C-3567-7P<br>C-3567-7                                 | <b>2774</b>          |
| <b>BEECH</b><br>58, 58A BARON      | STC-SA773CE<br>HARTZELL PROPELLER      | CONTINENTAL IO-520-C<br>285 HP @ 2700 RPM                            | PHC-J3YF-2UF<br>FC7663-2R<br>FC7663-2R*2<br>FC7663B-2R*3           | 76" TO 74"            | C-3567-1P<br>C-3567-4P<br>C-3567-1<br>C-3567<br>C-3567-4                       | <b>248</b>           |

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|-----------------------------|--|---|---|-----------------------|--|----------------------|
| BEECH<br>58, 58A BARON      | STC-SA773CE<br>HARTZELL PROPELLER      | CONTINENTAL IO-520-C<br>285 HP @ 2700 RPM             | PHC-J3YF-2(U)(F)<br>FC7663-2R                                   | 76" TO 74"            | C-3567<br>C-3567-1P<br>C-3567-1<br>C-3567-4<br>C-3567-4P | 249                  |
| BEECH<br>58P, 58TC BARON    | STC-SA1207NW<br>RAM AIRCRAFT CORP      | CONTINENTAL TSIO-520-WB<br>325 HP @ 2700 RPM          | PHC-J3YF-2UF<br>FC7663DRB<br>FC7663DRB*1                        | 78" NO CUT OFF        | C-3567-1P  | 245                  |
| BEECH<br>58, 58A, G58 BARON | STC-SA5533NM<br>HARTZELL PROPELLER     | CONTINENTAL IO-550-C<br>300 HP @ 2700 RPM             | PHC-J3YF-2UF<br>FC7663-2R<br>FC7663K-2R                         | 76" TO 74"            | C-3567-1<br>C-3567-4<br>C-3567-1P<br>C-3567-4P           | 244                  |
| BEECH<br>58, 58A, G58 BARON | STC-SA5533NM<br>HARTZELL PROPELLER     | CONTINENTAL IO-550-C<br>300 HP @ 2700 RPM             | PHC-J3YF-2UF<br>FC7663-2R                                       | 76" TO 74"            | C-3567-1P<br>C-3567-4P                                   | 1599                 |
| BEECH<br>58P, 58TC BARON    | STC-SA538GL<br>THAMER (TARD INC.)      | CONTINENTAL TSIO-520-L, -LB, -WB<br>310 HP @ 2700 RPM | PHC-A3MVF-5R<br>MV7636NRB                                       | 76.6"                 | D-5243   | 243                  |
| BEECH<br>58P, 58TC BARON    | STC-SA538GL<br>THAMER (TARD INC.)      | CONTINENTAL TSIO-520-L, -LB, -WB<br>310 HP @ 2700 RPM | PHC-83VF-5R, PHC-A3VF-5R<br>V7636NRB                            | 76.6"                 | D-5243   | 2108                 |
| BEECH<br>58, 58A BARON      | SA 10551SC<br>HARTZELL PROPELLER INC   | CONTINENTAL IO-520-C, -CB<br>285 HP @ 2700 RPM        | PHC-J3YF-2UF<br>FC7391D   | 75"                   | C-3567-4<br>C-3567-1<br>C-3567-4P<br>C-3567-1P           | 2630                 |
| BEECH<br>60, A60, B60 DUKE  | A12CE                                  | LYCOMING TIO-541-E1A4, -E1C4<br>380 HP @ 2900 RPM     | HC-F3YR-2, -2F, -2UF<br>FC7479-2R<br>FC7479B-2R<br>FC7479B-2R*1 | 74.0" TO 73.5"        | D-3273<br>D-3273-P                                       | 250                  |



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|--|---|---|--|-------------------------|------------------------|----------------------|
| <b>BEECH</b><br>B60 (only)                                   | STC SA01672SE<br>Northwest Turbine, LLC | PRATT & WHITNEY PT6A-35, PT6A-21<br>525 HP @ 2190 RPM | HC-E4N-3N<br>D8292-2   | 80.5"- 80"              | D-630-1<br>D-630-1P    | <b>2613</b>          |
| <b>BEECH</b><br>65 QUEEN AIR                                 | 3A20                                    | LYCOMING IGSO-480-A1A6, -A1E6<br>340 HP @ 2182 RPM    | HC-93Z20-2C1<br>10151-8R<br>10151B-8R<br>10151N-8R           | 93" TO 90"              | 836-21SPR<br>836-20SPR | <b>251</b>           |
| <b>BEECH</b><br>A65, 70 QUEEN AIR                            | 3A20                                    | LYCOMING IGSO-480-A1E6, -A1B6<br>340 HP @ 2182 RPM    | HC-B3Z20-2A<br>10151-8R<br>10151B-8R<br>10151N-8R            | 93" TO 90"              | 836-21SPR<br>836-20SPR | <b>252</b>           |
| <b>BEECH</b><br>65, A65, 65-(B)80, 65-A80-8800, 70 QUEEN AIR | STC-SA444SW<br>EXCALIBER AIRCRAFT       | LYCOMING IO-720-A1A, -A1B<br>400 HP @ 2650 RPM        | HC-A3VK-2A<br>V8433-2R<br>V8433-4R<br>V8433N-2R<br>V8433N-4Q | 82.6" TO 82" ???80.625? | C-2531-P               | <b>2109</b>          |
| <b>BEECH</b><br>65, A65, 65-(B)80, 65-A80-8800, 70 QUEEN AIR | STC-SA444SW<br>EXCALIBER AIRCRAFT       | LYCOMING IO-720-A1A, -A1B<br>400 HP @ 2650 RPM        | HC-A3XK-2A   | 82.6" TO 82" ???80.625? | C-2531-P               | <b>2312</b>          |
| <b>BEECH</b><br>65, A65, 65-(B)80, 65-A80-8800, 70 QUEEN AIR | STC-SA444SW<br>EXCALIBER AIRCRAFT       | LYCOMING IO-720-A1A, -A1B<br>400 HP @ 2650 RPM        | HC-A3MVK-2A<br>MV8433N-2R<br>MV8433N-4Q                      | 82.625 to 80.625        | C-2513-2P<br>C-2513-2  | <b>254</b>           |
| <b>BEECH</b><br>65, A65, A65-8200, 70 QUEEN AIR              | STC-SA2365WE<br>BERNARD GALLAGHER       | HP @ RPM  | HC-83V20-2, HC-A3V20-2<br>V9333C-3<br>V9333N-3               | 90.6"                   |                        | <b>2111</b>          |

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|--|--|--|--|---------------------------|------------------------|----------------------|
| <b>BEECH</b><br>65, A65, A65-8200, 70 QUEEN AIR              | STC-SA2365WE<br>BERNARD GALLAGHER      | HP @ RPM   | HC-83X20-2, HC-A3X20-2<br>9333C-3  | 90.6"                     |                        | <b>2110</b>          |
| <b>BEECH</b><br>65, A65, A65-8200, 70 QUEEN AIR              | STC-SA2365WE<br>BERNARD GALLAGHER      | UNKNOWN UNKNOWN<br>HP @ RPM                                  | HC-A3MV20-2<br>MV9333N-3   | 90.6"                     |                        | <b>255</b>           |
| <b>BEECH</b><br>76 (left side) DUCHESS                       | A29CE                                  | LYCOMING O-360-A1G6D<br>180 HP @ 2700 RPM                    | HC-M2YR-2CEUF<br>FC7666A   | 76.0" TO 74.0"            | D-4826<br>C-2285-3P    | <b>256</b>           |
| <b>BEECH</b><br>76 (right side) DUCHESS                      | A29CE                                  | LYCOMING LO-360-A1G6D<br>180 HP @ 2700 RPM                   | HC-M2YR-2CLEUF<br>FJC7666A   | 76.0" TO 74.0"            | D-4826LP<br>C-2285-3LP | <b>257</b>           |
| <b>BEECH</b><br>65-80, 65-A80, 65-B80, 65-88 QUEEN AIR       | 3A20                                   | LYCOMING IGSO-540-A1A, -A1D<br>380 HP @ 2182 RPM             | HC-B3Z30-2B<br>10151-8<br>10151-8R<br>10151B-8<br>10151N-8<br>10151N-8R<br>10151NB-8           | 93.5" TO 90"              | 836-32SPR<br>836-31SPR | <b>253</b>           |
| <b>BEECH</b><br>65-90, 65-A90, C90, B90, E90, C90A KING AIR  | 3A20                                   | PRATT & WHITNEY PT6A-20, -28, -21<br>550 HP @ 2200 RPM       | HC-B3TN-2(B)<br>T10173-8<br>T10173B-8<br>T10173N-8<br>T10173NB-8                               | 93.5 TO 90 3/8(91.5:65-90 | C-3065<br>C-3006P      | <b>258</b>           |
| <b>BEECH</b><br>65-90, -A90, -A90-1, -A90-2, -A90-4 KING AIR | 3A20                                   | PRATT & WHITNEY PT6A-20, -21, -28, -34B<br>550 HP @ 2200 RPM | HC-B3TN-3B, -3M<br>T10173-8<br>T10173B-8<br>T10173E-8<br>T10173N-8<br>T10173NB-8<br>T10173NE-8 | 93.5" TO 90 3/8"          | C-3065<br>C-3006P      | <b>259</b>           |

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|-------------------------------|--|--|--|-----------------------|---|----------------------|
| <b>BEECH</b><br>B90 KING AIR  | 3A20                                   | PRATT & WHITNEY PT6A-20<br>550 HP @ 2200 RPM                   | HC-B3TN-3(B,M)<br>T10173-8<br>T10173B-8<br>T10173E-8<br>T10173K-8<br>T10173N-8<br>T10173NB-8<br>T10173NE-8 | 93.5" TO 90 3/8"      | C-3065-13P                                      | <b>260</b>           |
| <b>BEECH</b><br>H90 KING AIR  | 3A20                                   | PRATT & WHITNEY PT6A-34B<br>550 HP @ 2200 RPM                  | HC-B3TN-3B<br>T10173B-8<br>T10173NB-8  | 93.5" TO 90.375"      | C-3065  | <b>261</b>           |
| <b>BEECH</b><br>C90 KING AIR  | 3A20                                   | PRATT & WHITNEY PT6A-20, -21, -6/20, -20A<br>550 HP @ 2200 RPM | HC-B3TN-3(B,M)<br>T10173NB-8<br>T10173NE-8<br>T10173NK-8<br>T10173NK-8*2                                   | 93.5" TO 90 3/8"      | C-3065-13P                                      | <b>2623</b>          |
| <b>BEECH</b><br>F90 KING AIR  | A31CE                                  | PRATT & WHITNEY PT6A-135, -135A<br>750 HP @ 1900 RPM           | HC-B4TN-3A, -3B<br>T10173FB-10.5<br>T10173FK-10.5<br>T10173FN-10.5<br>T10173FNB-10.5                       | 92" NO CUT OFF        | C-3425-P<br>C-3425-3P<br>C-3425-2P<br>C-3425-1P | <b>262</b>           |
| <b>BEECH</b><br>C90A KING AIR | 3A20                                   | PRATT & WHITNEY PT6A-21<br>550 HP @ 2200 RPM                   | HC-B3TN-3(B,M)<br>T10173K-8<br>T10173NK-8  | 93.5" TO 90 3/8"      | C-3065-13P                                      | <b>2622</b>          |
| <b>BEECH</b><br>E90 KING AIR  | 3A20                                   | PRATT & WHITNEY PT6A-28<br>550 HP @ 2200 RPM                   | HC-B3TN-3(B,M)<br>T10173NB-8<br>T10173NE-8<br>T10173NK-8   | 93.5" TO 90 3/8"      | C-3065-13P                                      | <b>2624</b>          |

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|--|--|---|----------------------------------|-----------------------|--------------------------------|----------------------|
| <b>BEECH</b><br>65-A90 KING AIR        | STC-SA3593NM<br>RAISBECK               | PRATT & WHITNEY PT6A-20, -28<br>500 HP @ 2200 RPM                                 | HC-D4N-3C<br>D9290K              | 93.0" TO 92.0"        | D-630-7P<br>D-630-7<br>D-630-P | <b>263</b>           |
| <b>BEECH</b><br>B90 KING AIR           | STC-SA3593NM<br>RAISBECK               | PRATT & WHITNEY PT6A-20, PT6A-28,<br>PT6A-34<br>550 HP @ 2200 RPM                 | HC-D4N-3C<br>D9290K              | 93.0" TO 92.0"        | D-630-7P<br>D-630-7<br>D-630-P | <b>181</b>           |
| <b>BEECH</b><br>E90 KING AIR           | STC-SA3593NM<br>RAISBECK               | PRATT & WHITNEY PT6A-28, PT6A -34<br>550 HP @ 2200 RPM                            | HC-D4N-3C<br>D9290K              | 93.0" TO 92.0"        | D-630-7P<br>D-630-7<br>D-630-P | <b>1165</b>          |
| <b>BEECH</b><br>F90 KING AIR           | STC-SA4131NM<br>RAISBECK               | PRATT & WHITNEY PT6A-135, -135A<br>750 HP @ 1900 RPM                              | HC-D4N-3C<br>D9290S<br>D9290SK   | 93" TO 92"            | D-630-7P<br>D-630-7<br>D-630-P | <b>264</b>           |
| <b>BEECH</b><br>C90 KING AIR           | STC-SA3593NM<br>RAISBECK               | PRATT & WHITNEY PT6A-20, -20A, -21, -<br>28, -34, -35, -6/20<br>550 HP @ 2200 RPM | HC-D4N-3C<br>D9290K              | 93.0" TO 92.0"        | D-630-7P<br>D-630-7<br>D-630-P | <b>359</b>           |
| <b>BEECH</b><br>C90GT, C90GTi KING AIR | STC-SA3593NM<br>RAISBECK               | PRATT & WHITNEY PT6A-135A<br>550 HP @ 1900 RPM                                    | HC-D4N-3C<br>D9290K              | 93.0" TO 92.0"        | D-630-7P<br>D-630-7<br>D-630-P | <b>3700</b>          |
| <b>BEECH</b><br>C90A KING AIR          | STC-SA3593NM<br>RAISBECK               | PRATT & WHITNEY PT6A-21, -35<br>550 HP @ 2200 RPM                                 | HC-D4N-3C<br>D9290K              | 93.0" TO 92.0"        | D-630-7P<br>D-630-7<br>D-630-P | <b>1166</b>          |
| <b>BEECH</b><br>C90A KING AIR          | STC-SA00966CH<br>HARTZELL PROPELLER    | PRATT & WHITNEY PT6A-21<br>550 HP @ 2200 RPM                                      | HC-E4N-3N<br>D8990<br>D8990K     | 90.0" to 89.0"        | D-630-4P                       | <b>1533</b>          |

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|---|---|--|--|-----------------------|-----------------|----------------------|
| <b>BEECH</b><br>A90, B90, C90, C90A, C90B, E90 KING AIR | SA2740SW<br>BLACKHAWK MODIFICATIONS, INC. | PRATT & WHITNEY PT6A-135A<br>550 HP @ 1900 RPM | HC-E4N-3N<br>D8990S                                      | 90.0" TO 89.0"        | D-630-4P        | <b>2014</b>          |
| <b>BEECH</b><br>C90A KING AIR                           | STC SA10219SC<br>Bert A. Nelson           | WALTER M601E-11S, -11AS<br>550 HP @ 2080 RPM   | HC-E4W-3<br>D8990K*1                                     | 90                    | D-630-5P        | <b>2015</b>          |
| <b>BEECH</b><br>C90GT KING AIR                          | 3A20                                      | PRATT & WHITNEY PT6A-135A<br>550 HP @ 1900 RPM | HC-E4N-3N<br>D8990S<br>D8990SK<br>D8990SK*1<br>D8990SK*2 | 90.0" TO 89.0"        | D-630-4P        | <b>2600</b>          |

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|-------------------------------------|--|---|---|---|-----------------|----------------------|
| BEECH                               |  |   |   |   |                 |                      |
| 95, B95, B95A, D95A, E95 TRAVEL AIR | 3A16                                   | LYCOMING O-360-A1A; IO-360-B1A, -B1B<br><br>180 HP @ 2700 RPM | HC-92ZK-2A,-2B; HC-92WK-2B<br><br>8447-12A<br>8447-12R<br>8447A-12A<br>8447A-12R<br>8447AB-12A<br>8447AB-12R<br>8447AN-12A<br>8447AN-12R<br>8447ANB-12A<br>8447ANB-12R<br>8447B-12A<br>8447B-12R<br>8447N-12A<br>8447N-12R<br>8447NB-12A<br>8447NB-12R<br>W8447-12A<br>W8447-12R<br>W8447A-12A<br>W8447A-12R<br>W8447AB-12A<br>W8447AB-12R<br>W8447AN-12A<br>W8447AN-12R<br>W8447ANB-12A<br>W8447ANB-12R<br>W8447B-12A<br>W8447B-12R<br>W8447N-12A<br>W8447N-12R<br>W8447NB-12A | 72.0" TO 70.0", -12A;<br>72.0" TO 71.0", -12R | 835-30<br>835-6 | 266                  |

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|---|--|--|--|-----------------------|-------------------------|----------------------|
| <b>BEECH</b><br>95, B95, B95A, D95A, E95 TRAVEL AIR | STC-SA00722CH<br>HARTZELL PROPELLER        | LYCOMING O-360-A1A<br>180 HP @ 2700 RPM                        | HC-C2YK-2CUF<br>FC7666C-4<br>FC7666C-4*1<br>FC7666CB-4   | 72" NO CUT OFF        | 836-29<br>836-29P       | <b>1203</b>          |
| <b>BEECH</b><br>99, 99A, A99, A99A, B99 AIRLINER    | A14CE                                      | PRATT & WHITNEY PT6A-20, -27, -28<br>680 HP @ 2200 RPM         | HC-B3TN-3B<br>T10173-8<br>T10173B-8<br>T10173E-8<br>T10173N-8<br>T10173NB-8<br>T10173NE-8      | 93.5" TO 90 3/8"      | C-3065-P                | <b>267</b>           |
| <b>BEECH</b><br>C99 AIRLINER                        | A14CE                                      | PRATT & WHITNEY PT6A-36<br>715 HP @ 2200 RPM                   | HC-B3TN-3B, -3M<br>T10173K-8<br>T10173NK-8   | 93.5" TO 90 3/8"      | C-3065-P                | <b>268</b>           |
| <b>BEECH</b><br>100 KING AIR                        | A14CE                                      | PRATT & WHITNEY PT6A-28<br>680 HP @ 2200 RPM                   | HC-B3TN-3B, -3M<br>T10173-8<br>T10173B-8<br>T10173E-8<br>T10173N-8<br>T10173NB-8<br>T10173NE-8 | 93.5" TO 90 3/8"      | C-3065-P                | <b>269</b>           |
| <b>BEECH</b><br>A100, A100A (U-21F) KING AIR        | A14CE                                      | PRATT & WHITNEY PT6A-28, -28A(700hp), -34<br>680 HP @ 2200 RPM | HC-B4TN-3, -3A<br>T10173FN-12.5<br>T10173FNB-12.5<br>T10173FNK-12.5                            | 90" NO CUT OFF        | C-3425-P                | <b>270</b>           |
| <b>BEECH</b><br>B100 KING AIR                       | STC SA455CH-D<br>Garrett Aviation Services | HONEYWELL TPE331-10<br>715 HP @ 2000 RPM                       | HC-B4TN-5F<br>T10173AN-12.5<br>T10173ANB-12.5  | 90"                   | D-3434-4P<br>D-3434-10P | <b>1183</b>          |

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|---|--|--|--|-----------------------|--------------------------------|----------------------|
| <b>BEECH</b><br>100, A100 KING AIR  | STC-SA5661NM<br>RAISBECK               | PRATT & WHITNEY PT6A-28, -34<br>680 HP @ 2200 RPM                    | HC-D4N-3C<br>D9290<br>D9290K   | 93.0" TO 92.0"        | D-630-7P<br>D-630-7<br>D-630-P | 271                  |
| <b>BEECH</b><br>B100 KING AIR   | SA02539CH-D<br>Hartzell Propeller inc. | HONEYWELL TPE331-6, -10<br>715 HP @ 2000 RPM                         | HC-B4TN-5F<br>T10173AN-12.5<br>T10173ANB-12.5  |                       | D-3434-4P<br>D-3434-10P        | 1225                 |
| <b>BEECH</b><br>A200 SUPER KING AIR   | A24CE                                  | PRATT & WHITNEY PT6A-38, -41<br>750 HP @ 2000 RPM                    | HC-B3TN-3G, -3N<br>T10178B-3R<br>T10178NB-3R<br>T10178NB-3R*1  | 98.5" TO 97.5"        | C-3065-12P                     | 275                  |
| <b>BEECH</b><br>200(T), 200C(T), A200C(T), B200(T), B200C(T), A100-1 SUPER KING AIR | A24CE                                  | PRATT & WHITNEY PT6A-41 (PT6A-42, B200 & B200C)<br>850 HP @ 2000 RPM | HC-B3TN-3G, -3N<br>T10178-3R<br>T10178B-3R<br>T10178K-3R<br>T10178N-3R<br>T10178NB-3R<br>T10178NK-3R | 98.5" TO 97.5"        | C-3065-13<br>C-3065-13P        | 273                  |
| <b>BEECH</b><br>B200, B200C, B200T, B200CT SUPER KING AIR (s/n BT35+ & BN5+)        | A24CE                                  | PRATT & WHITNEY PT6A-42<br>850 HP @ 2000 RPM                         | HC-E4N-3G<br>D9390S-1R<br>D9390SK-1R   | 93.0" TO 92.0"        | D-630-2P<br>D-630-2            | 1075                 |
| <b>BEECH</b><br>200, B200 RAISBECK KING AIR   | SA2698NM-S<br>RAISBECK                 | PRATT & WHITNEY PT6A-41, -42, -52, -61<br>850 HP @ 2000 RPM          | HC-D4N-3A<br>D9383K  | 94" TO 93"            | D-630-7P<br>D-630-7<br>D-630-P | 276                  |
| <b>BEECH</b><br>B200GT, B200CGT   | A24CE                                  | PRATT & WHITNEY PT6A-52<br>850 HP @ 2000 RPM                         | HC-E4N-3G<br>D9390S-1R   | 93.0" TO 92.0"        | D-630-2P<br>D-630-2            | 2699                 |



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|---|--|--|--|-----------------------|--|----------------------|
| <b>BEECH</b><br>300, 300LW SUPER KING AIR   | A24CE                                  | PRATT & WHITNEY PT6A-60A<br>1050 HP @ 1700 RPM   | HC-B4MP-3B<br>M10476<br>M10476K<br>M10476K*1<br>M10476NS<br>M10476NSK<br>M10476NSK*1 | 105.0" TO 104.0"      | C-3425-3<br>C-3425-3P                                      | <b>278</b>           |
| <b>BEECH</b><br>B300, B300C Super King Air  | A24CE                                  | Pratt and Whitney PT6A-67A<br>1050 HP @ 1700 RPM | HC-E4A-3M<br>E10478SK  | 105"                  | 103788P<br>103788  | <b>3011</b>          |
| <b>BEECH</b><br>300, 300LW, B300, B300C, B300C (MC-12W), B300C (UC-12W)             | SA02473SE<br>Raisbeck                  | Pratt & Whitney PT6A-60A<br>1050 HP @ 1700 RPM   | HC-E4P-3K<br>E10479SK  | 105"-104"             | 103784P<br>103784  | <b>3427</b>          |
| <b>BEECH</b><br>35-<br>C33A,36,A36,E33A,E33C,F33C,G33,S3<br>5,V35,V35A,V35B BONANZA | SA09619SC<br>HAMMOCK AVIATION SERVICES | TCM IO-550-B<br>300 HP @ 2700 RPM                | PHC-C3YF-1RF<br>F8068  | 82"-78"               | A-2295-1<br>A-2295-1P                                      | <b>2777</b>          |
| <b>BEECH</b><br>B300, B300C SUPER KING AIR 350 c                                    | A24CE                                  | PRATT & WHITNEY PT6A-60A<br>1050 HP @ 1700 RPM   | HC-B4MP-3C<br>M10476K*1<br>M10476NK*1<br>M10476NSK*1                                 | 105.0" TO 104.0"      | D-5519-P<br>D-5519-2P<br>D-5519-1P<br>D-5519-2<br>D-5519-1 | <b>279</b>           |
| <b>BEECH</b><br>1900C 1900 AIRLINER   | A24CE                                  | PRATT & WHITNEY PT6A-65B<br>1100 HP @ 1700 RPM   | HC-B4MP-3A<br>M10877K  | 109.5" NO CUT OFF     | D-4846-P<br>D-4846   | <b>280</b>           |
| <b>BEECH</b><br>1900D AIRLINER  | A24CE                                  | PRATT & WHITNEY PT6A-67D<br>1280 HP @ 1700 RPM   | HC-E4A-3A<br>E10950K   | 110.0" NO CUT OFF     | D-5547-P   | <b>281</b>           |

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| <b>BEECH</b><br>1900D AIRLINER  | A24CE                                  | PRATT & WHITNEY PT6A-67D<br>1279 HP @ 1700 RPM | HC-E4A-3I<br>E10950PB<br>E10950PCB<br>E10950PCK<br>E10950PK | 110.0" NO CUT OFF     | D-5547-P                | <b>1076</b>          |
| <b>BEECH</b><br>1900D AIRLINER  | A24CE                                  | PRATT & WHITNEY PT6A-67D<br>1279 HP @ 1700 RPM | HC-E4A-3J<br>E10950PB<br>E10950PCB<br>E10950PCK<br>E10950PK | 110.0" NO CUT OFF     | D-5547-P                | <b>1447</b>          |
| <b>BEECH</b><br>1900D AIRLINER  | A24CE                                  | PRATT & WHITNEY PT6A-67D<br>1279 HP @ 1700 RPM | HC-E4A-3J<br>E10950PCB<br>E10950PCK<br>E10950PK             | 110.0" NO CUT OFF     | D-5547-P                | <b>1705</b>          |
| <b>BEECH</b><br>1900D AIRLINER  | A24CE                                  | PRATT & WHITNEY PT6A-67D<br>1279 HP @ 1700 RPM | HC-E4A-3J<br>E10950PB                                       | 110.0" NO CUT OFF     | D-5547-P                | <b>1521</b>          |
| <b>BEECH</b><br>3000 T6A TEXAN II   | A00009WI                               | PRATT & WHITNEY PT6A-68<br>1100 HP @ 2000 RPM  | HC-E4A-2<br>E9612   | 97" TO 96"            | D-5710-2P               | <b>1231</b>          |
| <b>BEECH</b><br>3000 T6A TEXAN II   | A00009WI                               | PRATT & WHITNEY PT6A-68<br>1100 HP @ 2000 RPM  | HC-E4A-2A<br>E9612K   | 97" TO 96"            | D-5710-3P               | <b>1592</b>          |
| <b>BEECHCRAFT</b><br>300, 300LW, B300, B300C, B300C (MC-12W), B300C (UC-12W) King Air 350   | SA02559SE<br>Raisbeck                  | Pratt & Whitney PT6A-60A<br>1050 HP @ 1700 RPM | HC-E5P-3<br>NC10320K*1                                      | 106"                  | 105929P<br>105929       | <b>3546</b>          |
| <b>Beechcraft</b><br>S35, V35, V35A, V35B, 35-C33A, E33A, E33C, F33A, F33C, 36 (E-1 thru E-184), and A36 (E-185 thru E-2110 except E-1946 and E-2104) Bonanza | SA04505CH<br>Hartzell Propeller, Inc.  | Continental IO-520-B, BB<br>285 HP @ 2700 RPM  | HC-C3YF-1N<br>NM8410-4<br>NM8410K-4                         | 82"                   | A-2295-15P<br>A-2295-15 | <b>3821</b>          |

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| <b>Beechcraft</b><br>S35, V35, V35A, V35B, 35-C33A, E33A, E33C, F33A, F33C, 36 (E-1 thru E-184), and A36 (E-185 thru E-2110 except E-1946 and E-2104) Bonanza | SA04505CH<br>Hartzell Propeller, Inc.    | Continental IO-550-B<br>300 HP @ 2700 RPM             | HC-C3YF-1N<br>NM8410-4<br>NM8410K-4           | 82"                   | A-2295-15P<br>A-2295-15 | <b>3820</b>          |
| <b>Beechcraft</b><br>C90A, E90 King Air   | STC SA10341SC<br>Blackhawk Modifications | PRATT & WHITNEY PT6A-135A<br>550 HP @ 1900 RPM        | HC-B3TN-3(B,M)<br>T10173N-8<br>T10173NB-8     | 90.375" TO 93.5"      | C-3065-13P<br>C-3065-13 | <b>2845</b>          |
| <b>BEECHCRAFT</b><br>C90, C90A, E90 King Air  | STC SA10341SC<br>Blackhawk Modifications | Pratt & Whitney PT6A-135A<br>550 HP @ 1900 RPM        | HC-D4N-3C<br>D9290K                           | 93.0-92.0             | D-630-4P<br>D-630-4     | <b>2827</b>          |
| <b>BEECHCRAFT</b><br>C90, C90A, E90 King Air  | STC SA10341SC<br>Blackhawk Modifications | Pratt & Whitney PT6A-135A<br>550 HP @ 1900 RPM        | HC-E4N-3N<br>D8990S                           | 90.0-89.0             | D-630-4P<br>D-630-4     | <b>2826</b>          |
| <b>BEECHCRAFT CORPORATION</b><br>C90A   | SA01902CH<br>Nextant                     | General Electric H75-100<br>550 HP @ 1900 RPM         | HC-E4W-3<br>D9290K*2                          | 93" to 92"            | D-630-5P                | <b>3294</b>          |
| <b>BEECHCRAFT CORPORATION</b><br>B200, B200(C, CGT, GT) King Air  | SA02130SE<br>BEECHCRAFT CORP.            | Pratt & Whitney PT6A-42, PT6A-52<br>850 HP @ 2000 RPM | HC-E4N-3A<br>NC9208K                          | 93.0"                 | D-630-2P<br>D-630-2     | <b>3016</b>          |
| <b>Beechcraft Defense Company</b><br>3000 AT-6( )   | Military Type Certificate                | Pratt & Whitney PT6A-68D<br>1600 HP @ 2000 RPM        | HC-E4A-2<br>E9673S                            | 97"                   | D-5710-2                | <b>3068</b>          |
| <b>BELLANCA</b><br>see also ANDERSON GREENWOOD  |  | HP @ RPM  |   |                       |                         | <b>1383</b>          |
| <b>BELLANCA</b><br>14-13  | STC-SA2-848<br>WILLIAM E. HUSK           | LYCOMING O-435-C<br>190 HP @ 2550 RPM                 | HC-12X20-8D, HC-12X20-8, HC-D2X20-8<br>8433-6 | 78"                   |                         | <b>2119</b>          |

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|-------------------------------|---|---|--|-----------------------|-----------------|----------------------|
| BELLANCA<br>14-13             | STC-SA2-848<br><br>WILLIAM E. HUSK          | LYCOMING O-435-C<br><br>190 HP @ 2550 RPM | HC-12V20-8D, HC-12V20-8, HC-D2V20-8<br><br>V8433-6<br>V8433N-6 | 78"                   |                 | 2120                 |
| BELLANCA<br>14-13             | STC-SA2-848<br>WILLIAM E. HUSK              | LYCOMING O-435-C<br>190 HP @ 2550 RPM     | HC-D2MV20-8<br>MV8433N-6                                       | 78"                   |                 | 298                  |
| BELLANCA<br>14-19             | 1A3   | LYCOMING O-435-A<br><br>190 HP @ 2550 RPM | HC-12X20-B, HC-D2X20-8, HC-12X20-8C<br>8433-6                  | 78" TO 76.5"          |                 | 2114                 |
| BELLANCA<br>14-19             | 1A3   | LYCOMING O-435-A<br><br>190 HP @ 2550 RPM | HC-12X20-8<br>8428-6   | 78" TO 75"            |                 | 293                  |
| BELLANCA<br>14-19             | 1A3   | LYCOMING O-435-A<br><br>190 HP @ 2550 RPM | HC-12V20-8, HC-D2V20-8, HC-12V20-8C<br>V8433-6<br>V8433N-6     | 78" TO 76.5"          |                 | 2115                 |
| BELLANCA<br>14-19             | 1A3   | LYCOMING O-435-A<br><br>190 HP @ 2550 RPM | HC-D2MV20-8<br>MV8433N-6                                       | 78" TO 76.5"          |                 | 294                  |
| BELLANCA<br>14-19-2           | 1A3   | CONTINENTAL O-470-K<br>230 HP @ 2600 RPM  | HC-A2MVF-1A<br>MV8433NS-6                                      | 78.5" TO 78.0"        | 835-13          | 295                  |
| BELLANCA<br>14-19-3           | 1A3   | CONTINENTAL IO-470-F<br>260 HP @ 2625 RPM | HC-A2MVF-1A<br>MV8433N-2                                       | 82.3" TO 80"          | 835-13          | 296                  |
| BELLANCA<br>14-19-3, 14-19-3A | 1A3   | CONTINENTAL IO-470-F<br>260 HP @ 2625 RPM | HC-C2YF-1A,-1B<br>F8468-4<br>F8468A-4                          | 80" NO CUT OFF        | 835-23          | 297                  |
| BELLANCA<br>14-19-3A          | STC-SA874SW<br>AEROSTOL/PETERSON A/C REPAIR | CONTINENTAL IO-520-B<br>285 HP @ 2700 RPM | BHC-C2YF-1BF<br>F8475-6  | 78"                   | 835-23          | 299                  |

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|----------------------------------|---|---|---|-----------------------|--------------------|----------------------|
| <b>BELLANCA</b><br>14-19-2       | 1A3                                       | CONTINENTAL O-470-K<br>230 HP @ 2600 RPM                              | HC-82XF-1, HC-82XF-1A, HC-A2XF-1A<br>8433-6   | 78.5" TO 78.0"        | 835-13             | 2116                 |
| <b>BELLANCA</b><br>14-19-2       | 1A3                                       | CONTINENTAL O-470-K<br>230 HP @ 2600 RPM                              | HC-A2VF-1A<br>V8433-6<br>V8433N-6             | 78.5" TO 78.0"        | 835-13             | 2313                 |
| <b>BELLANCA</b><br>14-19-3       | 1A3                                       | CONTINENTAL IO-470-F<br>260 HP @ 2625 RPM                             | HC-82XF-1A, HC-A2XF-1A<br>8433-2              | 82.3" TO 80"          | 835-13             | 2117                 |
| <b>BELLANCA</b><br>14-19-3       | 1A3                                       | CONTINENTAL IO-470-F<br>260 HP @ 2625 RPM                             | HC-82VF-1A, HC-A2VF-1A<br>V8433-2<br>V8433N-2 | 82.3" TO 80"          | 835-13             | 2118                 |
| <b>BELLANCA</b><br>17-30 VIKING  | 1A3                                       | CONTINENTAL IO-520-D<br>300 HP @ 2850 RPM                             | HC-C2YF-1F<br>F8475-6                         | 78" TO 76"            | C-3533             | 301                  |
| <b>BELLANCA</b><br>17-30 VIKING  | 1A3                                       | CONTINENTAL IO-520-D<br>300 HP @ 2850 RPM                             | HC-C3YF-1RF<br>F8468-8R                       | 78.0" TO 76.0"        | C-3535-1<br>C-3535 | 302                  |
| <b>BELLANCA</b><br>17-30A VIKING | A18CE                                     | CONTINENTAL IO-520-K<br>300 HP @ 2850 RPM                             | HC-C2YF-1BF<br>F8475-6                        | 78" TO 77"            | C-3533             | 303                  |
| <b>BELLANCA</b><br>17-30A VIKING | A18CE                                     | CONTINENTAL IO-520-K<br>300 HP @ 2850 RPM                             | HC-C3YF-1,-1RF<br>F8468A-8R                   | 78" TO 76"            | C-3535-1<br>C-3535 | 304                  |
| <b>BELLANCA</b><br>17-30A VIKING | FAA Form 337<br>Jack J. & Patrick T. King | CONTINENTAL IO-520-K<br>300 HP @ 2850 RPM                             | PHC-C3YF-1RF<br>F8468A-6R                     | 80.0" TO 78.0"        | C-3535-1           | 1893                 |
| <b>BELLANCA</b><br>17-31A VIKING | A18CE                                     | LYCOMING IO-540-G1(E,F,B)5;-<br>K1(E,B,A)5 300hp<br>290 HP @ 2575 RPM | HC-C2YR-1BF<br>F8475D-4                       | 80" TO 78"            | A-3519             | 306                  |

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|--|--|---|---|-----------------------|--------------------|----------------------|
| <b>BELLANCA</b><br>17-31 VIKING                    | 1A3  | LYCOMING IO-540-G1B5<br>290 HP @ 2575 RPM                             | HC-C3YR-1, -1RF<br>F8468A-6R            | 80" TO 78"            | C-3552-1<br>C-3552 | <b>305</b>           |
| <b>BELLANCA</b><br>17-31A VIKING                   | 1A3  | LYCOMING IO-540-G1(E,F,B)5;-<br>K1(E,B,A)5 300hp<br>290 HP @ 2575 RPM | HC-C3YR-1,-1RF<br>F8468-6R<br>F8468A-6R | 80" TO 78"            | C-3552-1<br>C-3552 | <b>307</b>           |
| <b>BELLANCA</b><br>17-31 ATC VIKING (TURBO)        | 1A3  | LYCOMING IO-540-G1(E,F)5,-K1(E,A,B)5<br>w/turbo<br>300 HP @ 2700 RPM  | HC-C3YR-1,-1RF<br>F8468-6R<br>F8468A-6R | 80" TO 78"            | C-3552-1<br>C-3552 | <b>309</b>           |
| <b>BELLANCA</b><br>17-31TC VIKING (TURBO)          | 1A3  | LYCOMING IO-540-G1E5 (w/turbo)<br>290 HP @ 2575 RPM                   | HC-C3YR-1, -1RF<br>F8468A-6R            | 80" TO 78"            | C-3552-1<br>C-3552 | <b>308</b>           |
| <b>BELLANCA</b><br>DW-1 EAGLE                      | A4NW                                       | CONTINENTAL W670-6N,-6A (R-670-4,-5)<br>220 HP @ 2075 RPM             | HA-82V20-1B, HA-A2V20-1B<br>V10133N     | 101"                  |                    | <b>2121</b>          |
| <b>BELLANCA</b><br>DW-1 EAGLE                      | A4NW                                       | LYCOMING IO-540-M1B5D<br>300 HP @ 2700 RPM                            | HC-C3YR-1RF<br>F8468-2R<br>F8468A-2R    | 84" TO 78"            | C-3570             | <b>311</b>           |
| <b>BELLANCA (ALEXANDRIA A/C LLC)</b><br>DW-1 EAGLE | A4NW                                       | CONTINENTAL W670-6N,-6A (R-670-4,-5)<br>220 HP @ 2075 RPM             | HA-A2MV20-1B<br>MV10133N                | 101"                  |                    | <b>310</b>           |
| <b>BLACKSHAPE AIRCRAFT</b><br>BS115 BK160          | EASA.A.607                                 | Lycoming IO-320-D1B<br>160 HP @ 2700 RPM                              | 3C1-L675A1<br>76C03-7                   | 69"                   | 105890P<br>105890  | <b>3531</b>          |
| <b>BRITISH AEROSPACE</b><br>A109 AIRDALE           | FIELD APPROVAL                             | LYCOMING IO-360-A1A<br>180 HP @ 2700 RPM                              | HC-C2YR-1BF<br>F7666A-2                 | 74" TO 72"            |                    | <b>2612</b>          |

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| <b>BRITTEN-NORMAN LTD</b><br>BN-2; BN-2A;BN-2A-6,-8,-9;BN-2(A,B)-<br>26,-27 ISLANDER | A17EU                                      | LYCOMING O-540-E4C5<br>260 HP @ 2700 RPM     | HC-C2YK-2BF, -2CUF<br>FC8477-4<br>FC8477A-4<br>FC8477AB-4*1                | 80.0" TO 78.0"        | 836-29                | 314                  |
| <b>BRITTEN-NORMAN LTD</b><br>BN-2A-2,-3,-20,-21; BN-2B-20,-21<br>ISLANDER            | A17EU                                      | LYCOMING IO-540-K1B5<br>300 HP @ 2700 RPM    | HC-C2YK-2(B,C)(U)(F)<br>FC8477-4<br>FC8477A-4<br>FC8477A-6<br>FC8477AB-4*1 | 80" to 78"            | 836-29P<br>836-29     | 315                  |
| <b>BRITTEN-NORMAN LTD</b><br>BN-2A MK III, MK III-2,-3 TRISLANDER                    | A29EU                                      | LYCOMING O-540-E4C5<br>260 HP @ 2700 RPM     | HC-C2YK-2CUF<br>FC8477A-4  | 80.0" TO 78.0"        | 836-29P<br>836-29     | 313                  |
| <b>BRITTEN-NORMAN LTD</b><br>BN-2A MkIII TRISLANDER                                  | A29EU                                      | LYCOMING O-540-E4C5<br>260 HP @ 2700 RPM     | HC-C3YR-2UF<br>FC8468-8R*3<br>FC8468-8R*4                                  | 78"                   | C-4558-2P             | 1254                 |
| <b>BRITTEN-NORMAN LTD</b><br>BN-2T TURBINE ISLANDER                                  | A17EU                                      | ALLISON 250-B17C<br>320 HP @ 2030 RPM        | HC-C3YF-5F<br>FC8475F-6<br>FC8475FK-6                                      | 80.0" TO 78.0"        | C-4558-3P             | 316                  |
| <b>BRITTEN-NORMAN LTD</b><br>BN-2T-4R, 4S TURBINE ISLANDER                           | A17EU                                      | ALLISON 250-B17F/1<br>400 HP @ 2030 RPM      | HC-C3YF-5F<br>FC7818K  | 80.0" TO 78.0"        | C-4558-3P             | 1252                 |
| <b>BRITTEN-NORMAN LTD</b><br>BN-2T-4, BN-2T-4R TURBINE<br>ISLANDER                   | Unknown                                    | ALLISON 250-B17C, -B17F<br>400 HP @ 2030 RPM | HC-C3YF-5F<br>FC7818K  | 80"                   | C-4558-3P             | 317                  |
| <b>BRITTEN-NORMAN LTD</b><br>BN-2 ISLANDER   | Unknown<br>MT PROPELLER                    | LYCOMING O-540-E4C5<br>260 HP @ 2700 RPM     | HC-C3YR-2UF<br>FC7663D-2Q*1  | 76"                   | C-4558-2P<br>C-4558-2 | 320                  |

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|--|--|---|---|-----------------------|------------------------|----------------------|
| <b>BRITTEN-NORMAN LTD</b><br>BN-2B-26, BN-2B-27 ISLANDER | A17EU                                  | LYCOMING O-540-E4C5<br>260 HP @ 2700 RPM                | HC-C3YR-2UF<br>FC8468-8R*3  | 78"                   | C-4558-2P<br>C-4558-2  | 319                  |
| <b>BRITTEN-NORMAN LTD</b><br>BN2B-20, BN2B-21 ISLANDER   | BA8 (UK) (see note)                    | LYCOMING IO-540-K1B5<br>300 HP @ 2700 RPM               | HC-C3YR-2UF<br>FC7693F<br>FC7693FB                                      | 78"                   | C-4558-2P              | 1631                 |
| <b>BRITTEN-NORMAN LTD</b><br>PBN ISLANDER                | Unknown                                | LYCOMING IO-540-K1B5<br>300 HP @ 2700 RPM               | HC-C3YR-2UF<br>FC8468-8R*3<br>FC8468-8R*4                               | 78"                   |                        | 1253                 |
| <b>BUSHBY</b><br>MUSTANG II                              | Experimental                           | LYCOMING IO-320-B1A<br>160 HP @ 2700 RPM                | HC-F2YL-1BF<br>F7663A-3<br>F7663A-6                                     | 70", 73"              | C-4565                 | 325                  |
| <b>BUSHMASTER AIRCRAFT CORP.</b><br>BUSHMASTER 2000      | A19WE                                  | PRATT & WHITNEY R985-AN1, -AN-14B,<br>450 HP @ 2300 RPM | HC-B3R30-2EA<br>R10152-5.5  | 95.5" NO CUT OFF      | 836-32SPR<br>836-17SPR | 326                  |
| <b>CALLAIR</b><br>see AERO COMM.; A/C PARTS & DEV        |  | HP @ RPM  |   |                       |                        | 327                  |
| <b>CAMAIR</b><br>480                                     | 2A2                                    | CONTINENTAL O-470-B<br>240 HP @ 2600 RPM                | HC-82XF-2B, HC-A2XF-2B, HC-82XF-<br>2, HC-A2XF-2<br>8433-2              | 82.2" TO 80.5"        | 835-13                 | 2122                 |
| <b>CAMAIR</b><br>480                                     | 2A2                                    | CONTINENTAL O-470-B<br>240 HP @ 2600 RPM                | HC-82VF-2B, HC-A2VF-2B, HC-82VF-<br>2, HC-A2VF-2<br>V8433-2<br>V8433N-2 | 82.2" TO 80.5"        | 835-13                 | 2123                 |
| <b>CAMAIR</b><br>480                                     | 2A2                                    | CONTINENTAL O-470-B<br>240 HP @ 2600 RPM                | HC-A2MVF-2<br>MV8433N-2   | 82.2" TO 80.5"        | 835-13                 | 328                  |



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|------------------------------------|---|--|--|-----------------------|------------------------------|----------------------|
| <b>CAMAIR</b><br>480               | 2A2   | CONTINENTAL O-470-D<br><br>240 HP @ 2600 RPM               | HC-82XF-2, HC-A2XF-2, HC-82XF-2B, HC-A2XF-2B<br><br>8433-4                   | 80.2" TO 78"          | 835-13                       | <b>2124</b>          |
| <b>CAMAIR</b><br>480               | 2A2   | CONTINENTAL O-470-D<br><br>240 HP @ 2600 RPM               | HC-A2MVF-2<br><br>MV8433N-4  | 80.2" TO 78"          | 835-13                       | <b>329</b>           |
| <b>CAMAIR</b><br>480               | 2A2   | CONTINENTAL O-470-D<br><br>240 HP @ 2600 RPM               | HC-82VF-2, HC-A2VF-2, HC-82VF-2B, HC-A2VF-2B<br><br>V8433-4<br>V8433N-4      | 80.2" TO 78"          | 835-13                       | <b>2125</b>          |
| <b>CASA</b><br>C-212-CB            | A43EU   | HONEYWELL TPE331-5-251C<br><br>750 HP @ 1591 RPM           | HC-B4TN-5CL, 5FL<br><br>LT10282+4<br>LT10282B+4<br>LT10282N+4<br>LT10282NB+4 | 107.5"                | D-3434-7P*1                  | <b>330</b>           |
| <b>CASA</b><br>C-212-CC, -CF       | A43EU   | HONEYWELL TPE331-10(R)-501C,-511C<br><br>900 HP @ 1591 RPM | HC-B4MN-5AL<br><br>LM10585ANK+4  | 110"                  | D-4544-L                     | <b>331</b>           |
| <b>CASA</b><br>C-212-CC, -CF       | ST09907AC<br>Texas Turbines (BS Designs Inc.) | HONEYWELL TPE331-10(R)-501C,-511C<br><br>900 HP @ 1591 RPM | HC-E5N-5KL<br><br>JNC10905B*1  | 112"                  | 106528P<br>108344P<br>108344 | <b>3604</b>          |
| <b>CASA</b><br>C-212-CC, -CF       | A43EU   | GARRETT TPE331-10(R)-501C,-511C<br><br>900 HP @ 1591 RPM   | HC-B4MN-5AL<br><br>LM10585B+4  | 110"                  | D-4544-L                     | <b>332</b>           |
| <b>CASA</b><br>212 AVIOCAR         | Unknown                                       | HONEYWELL TPE331-201<br><br>715 HP @ 2000 RPM              | HC-B3TN-5E<br><br>T10282B*4<br>T10282NB*4                                    | 102.0"                | D-3434-1                     | <b>333</b>           |
| <b>CESSNA</b><br>( )206 Stationair | SA02735CH<br>Vitaoe Aviation LLC              | CONTINENTAL IO-550-F<br><br>300 HP @ 2700 RPM              | HC-J3YF-1RF<br><br>F7693DF+2*1   | 80"-78"               | C-4582-1P<br>C-4582-1        | <b>2926</b>          |

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|--|--|--|--|-----------------------|---|----------------------|
| <b>CESSNA</b><br>( )206 Stationair             | SA02821CH<br>Hartzell Propeller        | CONTINENTAL IO-550-F<br>300 HP @ 2700 RPM      | HC-J3YF-1RF<br>F7693DF+2*1                   | 80"-78"               | C-4582-1P<br>C-4582-1                       | <b>2969</b>          |
| <b>CESSNA</b><br>( )207( ) Stationair          | SA02735CH<br>Vitaoe Aviation LLC       | CONTINENTAL IO-550-F<br>300 HP @ 2700 RPM      | HC-C3YF-1RF<br>F7693DF+2*1                   | 80"-78"               | D-5732<br>D-5732-P<br>A-2295-1<br>A-2295-1P | <b>2928</b>          |
| <b>CESSNA</b><br>( )207( ) Stationair          | SA02821CH<br>Hartzell Propeller        | CONTINENTAL IO-550-F<br>300 HP @ 2700 RPM      | HC-C3YF-1RF<br>F7693DF+2*1                   | 80"-78"               | D-5732<br>D-5732-P<br>A-2295-1<br>A-2295-1P | <b>2996</b>          |
| <b>CESSNA</b><br>( )210( ) See Notes CENTURION | SA02735CH<br>Vitaoe Aviation LLC       | CONTINENTAL IO-550-L<br>300 HP @ 2700 RPM      | HC-J3YF-1RF<br>F7693DF+2*1<br>F7693DFB+2     | 80"-78"               | D-5732-P<br>D-5732<br>C-4582-1P<br>C-4582-1 | <b>2929</b>          |
| <b>CESSNA</b><br>( )210( ) See Notes CENTURION | SA02821CH<br>Hartzell Propeller        | CONTINENTAL IO-550-L<br>300 HP @ 2700 RPM      | HC-J3YF-1RF<br>F7693DF+2*1<br>F7693DFB+2     | 80"-78"               | D-5732-P<br>D-5732<br>C-4582-1P<br>C-4582-1 | <b>2997</b>          |
| <b>Cessna</b><br>( )206( ) Stationair          | SA04034CH<br>Turbine Conversions       | PRATT & WHITNEY PT6A-20<br>550 HP @ 2200 RPM   | HC-B3TN-3M<br>T10173N-8                      | 93.5" TO 90 3/8"      | D-4897-P                                    | <b>3797</b>          |
| <b>CESSNA</b><br>(T)207(A) Stationair          | SA02735CH<br>Vitaoe Aviation LLC       | CONTINENTAL IO-550-F, N<br>310 HP @ 2700 RPM   | HC-J3YF-1RF<br>F8068-2*2                     | 80"-78"               | C-4582-P<br>C-4582                          | <b>3239</b>          |
| <b>Cessna</b><br>170, 170A, 170B 170           | SA02539AK<br>Stoots Aviation           | Continental IO-370-CLC1U8<br>195 HP @ 2700 RPM | HC-G2YR-1N<br>NG8301<br>NG8301-3<br>NG8301-7 | 83", 80", 76"         | C-3568-P                                    | <b>3843</b>          |

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|---|--|--|----------------------------------|-----------------------|--------------------------------|----------------------|
| <b>Cessna</b><br>170; 170A; 170B                    | SA02155AK<br>David A. Stoots           | Lycoming O-360-A1A; O-360-A1D<br>180 HP @ 2700 RPM | HC-C2YR-1N<br>NG8301             | 83"                   | C-3568-P<br>C-3568             | <b>3723</b>          |
| <b>Cessna</b><br>170; 170A; 170B                    | SA02155AK<br>David A. Stoots           | Lycoming O-360-A1A; O-360-A1D<br>180 HP @ 2700 RPM | HC-C2YR-1N<br>NG8301-3           | 80"                   | C-3568-P<br>C-3568             | <b>3724</b>          |
| <b>CESSNA</b><br>172-172H, P172D, 175, 175A, & 175B | SA02539AK<br>Stoots Aviation           | Titan IO-370-CLC1U8<br>195 HP @ 2700 RPM           | HC-C2YR-1N<br>NG8301-7           | 76"                   | C-3568-P                       | <b>3798</b>          |
| <b>CESSNA</b><br>172-172H, P172D, 175, 175A, & 175B | SA02539AK<br>Stoots Aviation           | Titan IO-370-CLC1U8<br>195 HP @ 2700 RPM           | HC-C2YR-1N<br>NG8301-3           | 80"                   | C-3568-P                       | <b>3810</b>          |
| <b>CESSNA</b><br>172RG Cutlass                      | SA03373CH<br>Hartzell Propeller        | Lycoming O-360-F1A6<br>180 HP @ 2700 RPM           | HC-G2YR-1BFP<br>F7894-1.5*1      | 76.5" to 75.5"        | 105127F2<br>105127F1<br>105127 | <b>3321</b>          |
| <b>CESSNA</b><br>177B CARDINAL                      | SA04200CH<br>HARTZELL PROPELLER        | LYCOMING O-360-A1F6(D)<br>180 HP @ 2700 RPM        | HC-C2YR-1BFP<br>F7894-1.5*1      | 76.5" - 75.5"         | 106848F2<br>106848F1<br>106848 | <b>3497</b>          |
| <b>CESSNA</b><br>177RG; F177RG CARDINAL             | SA04200CH<br>HARTZELL                  | Lycoming IO-360-A1B6(D)<br>200 HP @ 2700 RPM       | HC-C2YR-1BFP<br>F7894            | 78" - 77"             | 106848F2<br>106848F1<br>106848 | <b>3488</b>          |
| <b>CESSNA</b><br>180 to 180J Skywagon               | SA04353CH<br>Hartzell Propeller        | CONTINENTAL O-470 series<br>230 HP @ 2600 RPM      | DHC-G2YF-1BFP<br>F8068+2         | 82" - 78"             | A-2298-2P<br>A-2298-2          | <b>3504</b>          |
| <b>CESSNA</b><br>180 ( ) SKYWAGON                   | SA02735CH<br>Vitatoe Aviation LLC      | Continental IO-520-D<br>300 HP @ 2850 RPM          | HC-C3YF-1RF<br>F8068-2*2         | 80" to 78"            | C-3535-1P<br>C-3535-1          | <b>2921</b>          |
| <b>CESSNA</b><br>180 ( ) SKYWAGON                   | SA02821CH<br>Hartzell Propeller        | Continental IO-520-D<br>300 HP @ 2850 RPM          | HC-C3YF-1RF<br>F8068-2*2         | 80" to 78"            | C-3535-1P<br>C-3535-1          | <b>2994</b>          |

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|--|--|--|---|--|--|----------------------|
| <b>Cessna</b><br>180, 180(A-K) Skywagon          | SA04491CH<br><br>Hartzell Propeller Inc.     | Continental O-470-50, O-520-LC/TS, O-550-F-TS, O-520-F-TS, IO-520-D, O-520-KAH(1,2), IO-550-D<br><br>310 HP @ 2850 RPM | HC-C3YF-1RF<br><br>F8429<br>F8429-4       | 86", 82", 80" (repair up to 2" dia. reduction) | D-5732-P<br>C-4582-P<br>C-3535-1P<br>A-2295-1P<br>A-2295-1 | <b>3777</b>          |
| <b>CESSNA</b><br>182 thru 182G SKYLANE           | SA00854AT<br>JOHN JEWELL AIRCRAFT, INC.      | CONTINENTAL O-470-(L,R)<br>230 HP @ 2600 RPM   | PHC-C3YF-1RF<br>F7691                     | 78.0" TO 77.0"                                 | C-3535-1P<br>C-3535-1<br>A-2295-1P<br>A-2295-1             | <b>3606</b>          |
| <b>CESSNA</b><br>182 thru 182G SKYLANE           | SA00854AT<br>JOHN JEWELL AIRCRAFT, INC.      | CONTINENTAL O-470-(L,R)<br>230 HP @ 2600 RPM   | PHC-C3YF-1RF<br>F8468A-6R                 | 80.0" TO 77.0"                                 | C-3535-1P<br>C-3535-1<br>A-2295-1P<br>A-2295-1             | <b>3605</b>          |
| <b>CESSNA</b><br>182 to 182P Skylane             | SA04353CH<br>Hartzell Propeller              | CONTINENTAL O-470 series<br>230 HP @ 2600 RPM  | (B,D)HC-G2YF-1BFP<br>F8068+2<br>F8068+2*7 | 82" - 78"                                      | D-4798P<br>D-4798-2P<br>D-4798-2<br>D-4798                 | <b>3506</b>          |
| <b>Cessna</b><br>182, 182(A-G), 182(H-R) Skylane | SA04491CH<br>Hartzell Propeller Inc.         | Continental IO-520-D, IO-550-D, O-550-F-TS, O-470-50<br>300 HP @ 2850 RPM  | HC-G3YF-1RF<br>F8429-4<br>F8429-6         | 82", 80" (repair up to 2" dia. reduction)      | D-5732-P<br>D-4798-3P<br>D-4798-1P<br>C-4582-P             | <b>3779</b>          |
| <b>CESSNA</b><br>182H - 182R Skylane             | SA01952WI<br>Air Plains Services Corporation | Continental IO-550-D<br>300 HP @ 2700 RPM  | PHC-L3Y1F-1N<br>NG8301-5                  | 80"  | C-4582-P   | <b>3793</b>          |
| <b>CESSNA</b><br>182H - 182R Skylane             | SA04053CH<br>Wipaire, Inc.                   | Continental IO-550-D<br>300 HP @ 2700 RPM  | HC-G3YF-1N<br>NG8301-3                    | 82"  | D-4798-1P<br>D-4798-1                                      | <b>3312</b>          |

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|---|--|---|--|-----------------------|---|----------------------|
| <b>Cessna</b><br>185, 185(A-E), A185(E,F) Skywagon  | SA04491CH<br>Hartzell Propeller Inc.   | Continental IO-520-D, IO-550-D<br>300 HP @ 2850 RPM   | HC-C3YF-1RF<br>F8429<br>F8429*2<br>F8429*3 | 86" to 84"            | C-3575-P<br>C-3575                          | <b>3776</b>          |
| <b>CESSNA</b><br>185, A185 Skywagon   | SA02735CH<br>Vitatoe Aviation LLC      | Continental IO-520-D<br>300 HP @ 2850 RPM   | HC-C3YF-1RF<br>F8068-2*2                   | 80" to 78"            | C-3575<br>C-3575-P                          | <b>2919</b>          |
| <b>CESSNA</b><br>185, A185 Skywagon   | SA02821CH<br>Hartzell Propeller        | Continental IO-520-D<br>300 HP @ 2850 RPM   | HC-C3YF-1RF<br>F8068-2*2                   | 80" to 78"            | C-3575<br>C-3575-P                          | <b>2992</b>          |
| <b>CESSNA</b><br>185, A185, ( )206( ) Skywagon,<br>Stationair   | TBD<br>Vitatoe Aviation LLC            | TCM IO-550-D, IO-550-F<br>300 HP @ 2700 RPM   | HC-C3YF-1RF                                | 80-78                 | D-5732-P<br>A-2295-1<br>C-3535P<br>C-3575-P | <b>2901</b>          |
| <b>Cessna</b><br>206, P206A (C-hub), U206(A-F), U206G<br>(up to S/N 4074) (TP206A (C-hub),<br>TU206A thru TU206F (up to S/N 2199)<br>as mod. by SA01300AT or SA02507AT-<br>D Stationair | SA04491CH<br>Hartzell Propeller Inc.   | Continental IO-520-A, IO-520-F, IO-520-F-<br>CF, IO-550-F, IO-550-F-CF, IO-550-N<br>310 HP @ 2850 RPM | HC-C3YF-1RF<br>F8429<br>F8429-4            | 86", 84" and 82"      | D-5732-P<br>A-2295-1P<br>A-2295-1           | <b>3778</b>          |
| <b>CESSNA</b><br>207, 207A Stationair 7, Stationair 8   | SA02735CH<br>Vitatoe Aviation LLC      | Continental IO-520-F<br>300 HP @ 2850 RPM   | HC-C3YF-1RF<br>F8068-2*2                   | 80" - 78"             | A-2295-1P<br>A-2295-1                       | <b>2920</b>          |
| <b>CESSNA</b><br>207, 207A Stationair 7, Stationair 8   | SA02821CH<br>Hartzell Propeller        | Continental IO-520-F<br>300 HP @ 2850 RPM   | HC-C3YF-1RF<br>F8068-2*2                   | 80" - 78"             | A-2295-1P<br>A-2295-1                       | <b>2993</b>          |
| <b>CESSNA</b><br>208 and 208B SuperVan 900  | SA09872AC<br>Texas Turbines            | HONEYWELL TPE-331-12JR<br>900 HP @ 1591 RPM   | HC-E4N-5KL<br>JNC10904                     | 110"                  | 106500P<br>106500                           | <b>3508</b>          |

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|--|--|--|------------------------------------|-----------------------|-----------------------|----------------------|
| <b>CESSNA</b><br>208, 208A, 208B CARAVAN     | STC SA02546LA<br>Blackhawk Modifications | PRATT & WHITNEY PT6A-140<br>867 HP @ 1900 RPM              | HC-B3TN-3AF(Y)<br>T10890CN-2       | 106" TO 104"          | D-4897<br>D-4897-P    | <b>3366</b>          |
| <b>CESSNA</b><br>208, 208B Caravan           | SA03393CH<br>Preferred Improvements, LLC | Pratt & Whitney PT6A-140<br>867 HP @ 1900 RPM              | HC-B3TN-3AF(Y)<br>T10890CN-2       | 106" to 104"          | D-4897-P<br>D-4897    | <b>3346</b>          |
| <b>CESSNA</b><br>208, 208B Caravan           | STC SA02181AK<br>Hartzell                | Pratt & Whitney PT6A-114(A)<br>675 HP @ 1900 RPM           | HC-B3TN-3AF(Y)<br>T10890CNB-2      | 106" to 104"          | D-4897-2P<br>D-4897-2 | <b>3364</b>          |
| <b>CESSNA</b><br>208B SuperVan 900           | SA10841SC<br>Texas Turbines              | HONEYWELL TPE331-12JR-(703,704,706)TT<br>950 HP @ 1591 RPM | HC-E4N-5KCL<br>JE10991<br>JE10991B | 109.5 to 107.5"       | 106500-1P<br>106500-1 | <b>3728</b>          |
| <b>CESSNA</b><br>210 (K-N)                   | SA00274AT<br>JOHN JEWELL AIRCRAFT        | CONTINENTAL IO-550-L<br>300 HP @ 2700 RPM                  | PHC-J3YF-1RF<br>F8068              | 82" - 78"             | C-4582-P<br>D-5732-P  | <b>2520</b>          |
| <b>Cessna</b><br>A185(E,F) Skywagon          | SA04404CH<br>Hartzell Propeller          | Continental IO-520-D<br>300 HP @ 2850 RPM                  | HC-C3YF-1RF<br>F8429               | 86" to 84"            | C-3575-P<br>C-3575    | <b>3706</b>          |
| <b>CESSNA</b><br>A185E, A185F SKYWAGON       | SA02528CH-D<br>HARTZELL PROPELLER        | CONTINENTAL IO-520-D<br>285 HP @ 2700 RPM                  | HC-C3YF-1RF<br>F8468A-2R*1         | 86" - 82"             | C-3575<br>C-3575-P    | <b>2753</b>          |
| <b>CESSNA</b><br>A185E, A185F                | SA10070SC<br>TEXAS SKYWAYS               | TCM IO-520-F<br>300 HP @ 2850 RPM                          | PHC-C3YF-1RF<br>F8068-2            | 80                    | C-3535-1<br>C-3535-1P | <b>2696</b>          |
| <b>Cessna</b><br>A188, A188A, A188B Ag Wagon | SA00470AT<br>Hartzell Propeller, Inc.    | Continental IO-520-D<br>300 HP @ 2850 RPM                  | HC-C3YF-1RF<br>F8468A-6R           | 80.0" TO 77.0"        | C-3535-1P             | <b>3181</b>          |
| <b>CESSNA</b><br>C206 STATIONAIR             | SA04034CH<br>TURBINE CONVERSIONS         | PRATT & WHITNEY PT6A<br>350 HP @ 2200 RPM                  | HC-B3TN-3NY<br>T9212N-6            | 86"                   | C-3065-P              | <b>3651</b>          |

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|---|---|--|--|-----------------------|--|----------------------|
| <b>Cessna</b><br>Cessna 177RG Cardinal RG                             | SA09871AC<br>Tornado Alley Turbo        | Lycoming O-360-A1B6(D)<br>180 HP @ 2700 RPM                          | HC-C2YR-1N<br>NG8301-5                 | 78"                   | A-2295-P<br>106848F2<br>106848F1<br>106848 | <b>3404</b>          |
| <b>CESSNA</b><br>T206H Turbo Stationaire                              | SA04053CH<br>Wipair Inc.                | Lycoming TIO-540-AJ1A<br>310 HP @ 2500 RPM                           | HC-F3YR-1AN<br>NG8301-1                | 84"                   | D-4578-1P<br>D-4578-1                      | <b>3388</b>          |
| <b>CESSNA</b><br>T210(K-N) CENTURION                                  | SA03141AT<br>JOHN JEWELL AIRCRAFT, INC. | CONTINENTAL IO-550-L<br>300 HP @ 2700 RPM                            | PHC-J3YF-1RF<br>F7691                  | 78.0" TO 77.0"        | C-4582-P                                   | <b>3526</b>          |
| <b>CESSNA</b><br>T210(K-N)  | SA03141AT<br>JOHN JEWELL AIRCRAFT       | CONTINENTAL IO-550-L<br>300 HP @ 2700 RPM                            | PHC-J3YF-1RF<br>F8068                  | 82"                   | C-4582-P<br>D-5732-P                       | <b>3525</b>          |
| <b>CESSNA</b><br>T210L, T210M, TU206G SUPER SKYWAGON, TURBO CENTURION | SA10615SC<br>RAM AIRCRAFT CORP.         | CONTINENTAL TSIO-520-R<br>310 HP @ 2700 RPM                          | PHC-J3YF-1RF<br>F7693F+2               | 80-78                 | C-4582-1P<br>C-4582-1                      | <b>2738</b>          |
| <b>CESSNA</b><br>T210M, T210N, P210N Centurion, Pressurized Centurion | SA02735CH<br>Vitatoe Aviation LLC       | Continental TSIO-520-R, TSIO-520-P, TSIO-520-AF<br>310 HP @ 2700 RPM | HC-J3YF-1RF<br>F7693DF+2<br>F7693DFB+2 | 80" - 78"             | C-4582-1P<br>C-4582-1                      | <b>2824</b>          |
| <b>CESSNA</b><br>T210M, T210N, P210N Centurion, Pressurized Centurion | SA02821CH<br>Hartzell Propeller         | Continental TSIO-520-R, TSIO-520-P, TSIO-520-AF<br>310 HP @ 2700 RPM | HC-J3YF-1RF<br>F7693DF+2<br>F7693DFB+2 | 80" - 78"             | C-4582-1P<br>C-4582-1                      | <b>2971</b>          |
| <b>CESSNA</b><br>U206B Thru U206G s/n U20604074 See Notes             | SA02735CH<br>Vitatoe Aviation LLC       | Continental IO-520-F<br>300 HP @ 2850 RPM                            | HC-C3YF-1RF<br>F8068-2*2               | 80" - 78"             | A-2295-1P<br>A-2295-1                      | <b>2918</b>          |
| <b>CESSNA</b><br>U206B Thru U206G s/n U20604074 See Notes             | SA02821CH<br>Hartzell Propeller         | Continental IO-520-F<br>300 HP @ 2850 RPM                            | HC-C3YF-1RF<br>F8068-2*2               | 80" - 78"             | A-2295-1P<br>A-2295-1                      | <b>2991</b>          |

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|--|--|--|--|---|--|----------------------|
| <b>Cessna</b><br>U206G (S/N 4075+), P206, P206A(J-hub), P206(B-E), (TP206A(J-hub), TP206(B-E), TU206F(S/N 2200+) & TU206G as mod by SA01300AT or SA02507AT-D) Stationair | SA04491CH<br>Hartzell Propeller Inc.   | CONTINENTAL IO-520-F, IO-520-F-CF, IO-550-F, IO-550-N<br>310 HP @ 2850 RPM | HC-J3YF-1RF<br>F8429<br>F8429-4                      | 86" floatplanes only, 82" at 2700 RPM max | C-4582-1P<br>C-4582-1                          | <b>3744</b>          |
| <b>CESSNA</b><br>LC42-550FG CESSNA 350   | A00003SE                               | CONTINENTAL IO-550-N<br>310 HP @ 2700 RPM                                  | PHC-J3YF-1RF<br>F7691D-1<br>F7691DK-1<br>F7691DK-1*1 | 77.0" TO 76.0"                            | C-6446-2P<br>C-6446-2<br>C-6446-1P<br>C-6446-1 | <b>1411</b>          |
| <b>CESSNA</b><br>LC40-550FG CESSNA 300   | A00003SE                               | CONTINENTAL IO-550-N<br>310 HP @ 2700 RPM                                  | PHC-J3YF-1RF<br>F7691D-1                             | 77" to 76"                                | C-6446-1P<br>C-6446-1                          | <b>2559</b>          |
| <b>CESSNA</b><br>LC41-550FG CESSNA 400   | Experimental                           | CONTINENTAL TSIO-550-E<br>310 HP @ 2600 RPM                                | PHC-J3YF-1RF<br>F7693DF                              | 78.0"                                     | C-6446-1P<br>C-6446-1                          | <b>1510</b>          |
| <b>CESSNA</b><br>LC41-550FG CESSNA 400   | Experimental                           | CONTINENTAL TSIO-550-E<br>310 HP @ 2600 RPM                                | HC-J3YF-1RF<br>F7693DF                               | 78.0"                                     | C-6446-2<br>C-6446-2P<br>C-6446-1P<br>C-6446-1 | <b>1833</b>          |
| <b>CESSNA</b><br>LC41-550FG, T240 CESSNA 400, CORVALIS TTx   | A00003SE                               | CONTINENTAL TSIO-550-C<br>310 HP @ 2600 RPM                                | HC-H3YF-1RF<br>F7693DF<br>F7693DF*1<br>F7693DFK      | 77.0" - 78.0"                             | C-6446-2P<br>C-6446-2                          | <b>2016</b>          |
| <b>CESSNA</b><br>T50   | STC-SA2397<br>L. L. WALKER             | LYCOMING R680-9, R680-13<br>300 HP @ 2300 RPM                              | HC-93Z20-2B<br>9349-5<br>9349N-5<br>9350-5           | 88" NO CUT OFF                            | 836-32<br>836-31                               | <b>334</b>           |



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| CESSNA<br>120, 140, 140A | 5A2                                    | CONTINENTAL C85-12, -12F, -14F<br>85 HP @ 2575 RPM                | HA-12UF-1<br>7214<br>7214M<br>7414                            | 74" TO 72"            |                  | 335                  |
| CESSNA<br>170            | STC-SA135CE<br>KWAD CO.                | LYCOMING O-320-(A,B)1(A,B), -<br>(A,B)3(A,B)<br>160 HP @ 2700 RPM | HC-82XL-1F, HC-A2XL-1<br>7636-4<br>7636D-4                    | 72.2"                 | 835-30<br>835-6P | 2130                 |
| CESSNA<br>170            | STC-SA135CE<br>KWAD CO.                | LYCOMING O-320-(A,B)1(A,B), -<br>(A,B)3(A,B)<br>160 HP @ 2700 RPM | HC-82VL-1F, HC-A2VL-1<br>V7636D-4<br>V7636N-4                 | 72.2"                 | 835-30<br>835-6P | 2131                 |
| CESSNA<br>170            | STC-SA135CE<br>KWAD CO.                | LYCOMING O-320-(A,B)1(A,B), -<br>(A,B)3(A,B)<br>160 HP @ 2700 RPM | HC-A2MVL-1<br>MV7636N-4                                       | 72.2"                 | 835-30<br>835-6P | 338                  |
| CESSNA<br>170            | STC-SA1-245<br>TURNER AVIATION         | LYCOMING O-340-A1A<br>170 HP @ 2700 RPM                           | HC-82XL-1F, HC-A2XL-1F, HC-82XL-<br>1, HC-A2XL-1<br>8433-12   | 72.2"                 | 835-30           | 2128                 |
| CESSNA<br>170            | STC-SA3-13<br>KWAD CO.                 | LYCOMING O-340<br>170 HP @ 2700 RPM                               | HC-82XL-1, HC-A2XL-1<br>7636-4                                | 72.2"                 | 835-30<br>835-6P | 2132                 |
| CESSNA<br>170            | STC-SA1-245<br>TURNER AVIATION         | LYCOMING O-340-A1A<br>170 HP @ 2700 RPM                           | HC-82VL-1F, HC-A2VL-1F, HC-82VL-<br>1, HC-A2VL-1<br>V8433N-12 | 72.2"                 | 835-30           | 2129                 |
| CESSNA<br>170            | STC-SA3-13<br>KWAD CO.                 | LYCOMING O-340<br>170 HP @ 2700 RPM                               | HC-82VL-1, HC-A2VL-1<br>V7636D-4                              | 72.2"                 | 835-30<br>835-6P | 2133                 |
| CESSNA<br>170            | STC-SA1-245<br>TURNER AVIATION         | LYCOMING O-340-A1A<br>170 HP @ 2700 RPM                           | HC-A2MVL-1<br>MV8433N-12                                      | 72.2"                 | 835-30           | 337                  |

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|-----------------------------------|--|---|---|-----------------------|--------------------|----------------------|
| <b>CESSNA</b><br>170              | STC-SA3-13<br>KWAD CO.                 | LYCOMING O-340<br>170 HP @ 2700 RPM                             | HC-A2MVL-1<br>MV7636N-4   | 72.2"                 | 835-30<br>835-6P   | <b>339</b>           |
| <b>CESSNA</b><br>170              | STC-SA421CE<br>MID AMERICAN STOL       | LYCOMING O-360-A1A, -A1D<br>180 HP @ 2700 RPM                   | HC-C2YK-1A<br>F7666A-2  | 74"                   | 835-33             | <b>340</b>           |
| <b>CESSNA</b><br>175, 175 A, B, C | SA02343AK<br>David A. Stoots           | Lycoming IO-390-A3A6<br>210 HP @ 2700 RPM                       | HC-C2YR-1BFP<br>F8477-2   | 82" to 81"            | C-3568-P<br>C-3568 | <b>3130</b>          |
| <b>CESSNA</b><br>170, 170A, 170B  | STC-SA135CE<br>KWAD CO.                | LYCOMING O-320-(A,B)1(A,B),<br>(A,B)3(A,B)<br>160 HP @ 2700 RPM | HC-82XL-1F<br>7636D-4   | 72.2"                 | 835-6P<br>835-30   | <b>2363</b>          |
| <b>CESSNA</b><br>170, 170A, 170B  | STC-SA135CE<br>KWAD CO.                | LYCOMING O-320-(A,B)1(A,B),<br>(A,B)3(A,B)<br>160 HP @ 2700 RPM | HC-82VL-1F<br>V7636D-4  | 72.2"                 | 835-6P<br>835-30   | <b>2364</b>          |
| <b>CESSNA</b><br>170, 172, 175    | SA00461SE<br>DEL-AIR                   | LYCOMING O-360<br>180 HP @ 2700 RPM                             | HC-C2YR-1BF<br>F8477-4  | 80" TO 78"            | C-3568-P<br>C-3568 | <b>1854</b>          |
| <b>CESSNA</b><br>170A             | STC-SA1-240<br>FULTON CONVERSION       | LYCOMING O-435-C<br>190 HP @ 2550 RPM                           | HC-12X20-8, HC-D2X20-8, HC-12X20-<br>8D, HC-D2X20-8D<br>8433-6              | 78"                   |                    | <b>2126</b>          |
| <b>CESSNA</b><br>170A             | STC-SA1-240<br>FULTON CONVERSION       | LYCOMING O-435-C<br>190 HP @ 2550 RPM                           | HC-12V20-8, HC-D2V20-8, HC-12V20-<br>8D, HC-D2V20-8D<br>V8433-6<br>V8433N-6 | 78"                   |                    | <b>2127</b>          |
| <b>CESSNA</b><br>170A             | STC-SA1-240<br>FULTON CONVERSION       | LYCOMING O-435-C<br>190 HP @ 2550 RPM                           | HC-D2MV20-8<br>MV8433N-6  | 78"                   |                    | <b>336</b>           |
| <b>CESSNA</b><br>170A, 170B       | STC-SA3-13<br>KWAD CO.                 | LYCOMING O-340-A1A<br>170 HP @ 2700 RPM                         | HC-82XL-1F<br>8433-12   | 72.2"                 | 835-6P<br>835-30   | <b>2365</b>          |

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|--|--|---|--|-----------------------|--------------------|----------------------|
| <b>CESSNA</b><br>170A, 170B  | STC-SA3-13<br>KWAD CO.                   | LYCOMING O-340-A1A<br>170 HP @ 2700 RPM           | HC-82VL-1F<br>V8433N-12                                      | 72.2"                 | 835-6P<br>835-30   | <b>2366</b>          |
| <b>CESSNA</b><br>170(A,B)  | SA02155AK<br>DAVID A. STOOTS             | LYCOMING O-360-()()()<br>180 HP @ 2700 RPM        | HC-C2YR-1BF<br>F8477-4                                       | 80" TO 78"            | C-3568-P<br>C-3568 | <b>2457</b>          |
| <b>CESSNA</b><br>170, 170A, 170B                                     | STC-SA749CE<br>ROBERT WILLIAMS (AVCON)   | LYCOMING O-360-A1A, -A1B<br>180 HP @ 2700 RPM     | HC-C2YK-1BF<br>F7666A  | 76"                   | 835-33P<br>835-33  | <b>341</b>           |
| <b>CESSNA</b><br>170A, 170B  | STC-SA806CE<br>AVCON INDUSTRIES          | LYCOMING O-360-A1A<br>180 HP @ 2700 RPM           | HC-C2YK-1BF<br>F7666A-2                                      | 74"                   | 835-33             | <b>342</b>           |
| <b>CESSNA</b><br>170A, 170B  | SA01111CH<br>HARTZELL PROPELLER          | LYCOMING O-360-A1A<br>180 HP @ 2700 RPM           | HC-C2YR-1BF<br>F8477-4                                       | 80" TO 78"            | C-3568-P<br>C-3568 | <b>1458</b>          |
| <b>CESSNA</b><br>170A,B 172,172A-H 175,175A-C<br>P172D               | STC-SA00461SE<br>DEL-AIR                 | LYCOMING O-360-A1A, -A1D<br>180 HP @ 2700 RPM     | HC-C2YK-1BF<br>F7666A  | 76" TO 72"            |                    | <b>1559</b>          |
| <b>CESSNA</b><br>170A, 170B, 172, 172(A-P), 175, 175(A-C)<br>SKYHAWK | STC-SA293NW<br>FRANKLIN AIRCRAFT ENGINES | FRANKLIN 6A-350-C1(R,L), -C2<br>215 HP @ 2800 RPM | HC-C2YF-1BF<br>F8459-4                                       | 80" TO 76"            | A-4203             | <b>351</b>           |
| <b>CESSNA</b><br>170A, 170B, 172, 172(A-P), 175, 175(A-C)<br>SKYHAWK | STC-SA293NW<br>FRANKLIN AIRCRAFT ENGINES | FRANKLIN 6A-350-C1(R,L),-C2<br>215 HP @ 2800 RPM  | HC-C2YF-1BF<br>F8459A-4                                      | 80" TO 76"            | A-4203-P           | <b>2018</b>          |
| <b>CESSNA</b><br>172 SKYHAWK   | STC-SA3-126<br>KWAD CO.                  | LYCOMING O-340-A1A<br>170 HP @ 2700 RPM           | HC-82XL-1, HC-A2XL-1, HC-82XL-1F,<br>HC-A2XL-1F<br>8433-12   | 72.2"                 | 835-30<br>835-6P   | <b>2134</b>          |
| <b>CESSNA</b><br>172 SKYHAWK   | STC-SA3-126<br>KWAD CO.                  | LYCOMING O-340-A1A<br>170 HP @ 2700 RPM           | HC-82VL-1, HC-A2VL-1, HC-82VL-1F,<br>HC-A2VL-1F<br>V8433N-12 | 72.2"                 | 835-30<br>835-6P   | <b>2135</b>          |

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|--|--|--|--|-----------------------|--------------------------------|----------------------|
| <b>CESSNA</b><br>172 SKYHAWK                         | STC-SA3-126<br>KWAD CO.                  | LYCOMING O-340-A1A<br>170 HP @ 2700 RPM              | HC-A2MVL-1<br>MV8433N-12                     | 72.2"                 | 835-30<br>835-6P               | <b>343</b>           |
| <b>CESSNA</b><br>172 SKYHAWK                         | STC-SA3-571<br>KWAD CO.                  | LYCOMING O-360-A1D<br>180 HP @ 2700 RPM              | HC-C2YK-1BF<br>F7666A-2                      | 74"                   | 835-20                         | <b>344</b>           |
| <b>CESSNA</b><br>172 SKYHAWK                         | STC-SA807CE<br>AVCON INDUSTRIES          | LYCOMING O-360-A1A, -A1D, -A1F6<br>180 HP @ 2700 RPM | HC-C2YK-1BF<br>F7666A<br>F7666A-2            | 72" MIN               |                                | <b>352</b>           |
| <b>CESSNA</b><br>172 SKYHAWK                         | STC-SA1342GL<br>PORSCHE                  | PORSCHE PFM 3200<br>217 HP @ 2343 RPM                | BHC-J2YF-1C<br>B7421                         | 74"                   | D-5413-P                       | <b>353</b>           |
| <b>CESSNA</b><br>172                                 | STC SA03300CH<br>Hartzell Propeller Inc. | Technify TAE 125-02-99 (diesel)<br>135 HP @ 2300 RPM | 3A1-TP724A1<br>75A01-2                       | 74"                   | 104888F2<br>104888<br>104888F1 | <b>3273</b>          |
| <b>CESSNA</b><br>172, 175 SKYHAWK                    | STC-SA610SW<br>RFB COMPANY               | LYCOMING O-320<br>160 HP @ 2700 RPM                  | HC-82XL-2, HC-A2XL-2<br>7636-4<br>7636D-4    | 72.2"                 |                                | <b>2136</b>          |
| <b>CESSNA</b><br>172, 175 SKYHAWK                    | STC-SA610SW<br>RFB COMPANY               | LYCOMING O-320<br>160 HP @ 2700 RPM                  | not procurable                               | 72.2"                 |                                | <b>347</b>           |
| <b>CESSNA</b><br>172, 175 SKYHAWK                    | STC-SA610SW<br>RFB COMPANY               | LYCOMING O-320<br>160 HP @ 2700 RPM                  | HC-82VL-2, HC-A2VL-2<br>V7636D-4<br>V7636N-4 | 72.2"                 |                                | <b>2137</b>          |
| <b>CESSNA</b><br>172, 175 SKYHAWK                    | STC-SA610SW<br>RFB COMPANY               | LYCOMING O-360<br>180 HP @ 2700 RPM                  | HC-92ZK-2B<br>8447-12A<br>8447N-12A          | 71.6"                 | 835-30                         | <b>348</b>           |
| <b>CESSNA</b><br>172, A, B, C, D, E, F, G, H SKYHAWK | STC-SA420CE<br>MID AMERICAN STOL         | LYCOMING O-360-A1A, -A1D<br>180 HP @ 2700 RPM        | HC-C2YR-1B<br>F7666-2                        | 74"                   | 835-33                         | <b>345</b>           |

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| <b>CESSNA</b><br>172, 172A-I, 172K-N, 172P | SA02186AK<br>HARTZELL PROPELLER        | LYCOMING O-360-()()()<br>180 HP @ 2700 RPM       | HC-C2YR-1BF<br>F8477-4           | 80" TO 78"            | 835-23<br>C-3568-P<br>C-3568<br>835-23P | <b>1877</b>          |
| <b>CESSNA</b><br>172, 172(A-P)             | SA02155AK<br>DAVID A. STOOTS           | LYCOMING O-360-()()()<br>180 HP @ 2700 RPM       | HC-C2YR-1BF<br>F8477-4           | 80" TO 78"            | C-3568-P<br>C-3568                      | <b>2458</b>          |
| <b>CESSNA</b><br>172A-N SKYHAWK            | STC-SA87NW<br>KENMORE AIR HARBOR       | LYCOMING O-360-A1A<br>180 HP @ 2700 RPM          | HC-C2YK-1BF<br>F7666A            | 76"                   | 835-33P<br>835-33                       | <b>350</b>           |
| <b>CESSNA</b><br>172I, K, L, M, N SKYHAWK  | STC-SA647CE<br>ROBERT WILLIAMS (AVCON) | LYCOMING O-360-A1A<br>180 HP @ 2700 RPM          | HC-C2YR-1B(F)<br>F7666<br>F7666A | 76.0" TO 72.5"        | 835-33<br>835-23<br>835-21P             | <b>1666</b>          |
| <b>CESSNA</b><br>172I, K, L, M, N SKYHAWK  | STC-SA647CE<br>ROBERT WILLIAMS (AVCON) | LYCOMING O-360-A1A<br>180 HP @ 2700 RPM          | HC-C2YR-1B(F)<br>F7666A-2        | 76.0" TO 72.5"        | 835-23<br>835-33<br>835-21P             | <b>349</b>           |
| <b>CESSNA</b><br>R172K HAWK XP             | STC SA02078CH<br>HARTZELL PROPELLER    | CONTINENTAL IO-360-K, -KB<br>195 HP @ 2600 RPM   | HC-C3YF-1RF<br>F7392*2           | 75 to 73              | A-2295-1P                               | <b>2509</b>          |
| <b>CESSNA</b><br>R172K HAWK XP             | STC SA02078CH<br>HARTZELL PROPELLER    | CONTINENTAL IO-360-KC, -KBC<br>210 HP @ 2800 RPM | HC-C3YF-1RF<br>F7392*2           | 75 to 73              | A-2295-1P                               | <b>2540</b>          |
| <b>CESSNA</b><br>175                       | STC-SA3-674<br>KWAD CO.                | LYCOMING O-360-A1D<br>180 HP @ 2700 RPM          | HC-C2YK-1BF<br>F7666A-2          | 74"                   | 835-20                                  | <b>354</b>           |
| <b>CESSNA</b><br>175, 175A                 | STC-SA424CE<br>ROBERT WILLIAMS         | LYCOMING O-360-A1D, -A1A<br>180 HP @ 2700 RPM    | HC-92ZK-8D<br>8447-12A           | 72"-70.5"             | 835-6P<br>835-6                         | <b>356</b>           |

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|---|--|---|---|-----------------------|---|----------------------|
| <b>CESSNA</b><br>175, 175A              | STC-SA424CE<br>BARBARA OR BOB WILLIAMS | LYCOMING O-360-A1D, -A1A<br>180 HP @ 2700 RPM | HC-C2YK-1A, -1B(F)<br>F7666-2<br>F7666A-2 | 74"-72"               | 835-21P                                     | <b>355</b>           |
| <b>CESSNA</b><br>175, 175A, 175B, 175C  | STC-SA777CE<br>ROBERT WILLIAMS (AVCON) | LYCOMING O-360-A1A<br>180 HP @ 2700 RPM       | HC-C2YK-1BF<br>F7666A-2                   | 74"                   |   | <b>357</b>           |
| <b>CESSNA</b><br>175, 175(A,B,C)        | SA02155AK<br>DAVID A. STOOTS           | LYCOMING O-360-()()()<br>180 HP @ 2700 RPM    | HC-C2YR-1BF<br>F8477-4                    | 80" TO 78"            | C-3568-P<br>C-3568                          | <b>2459</b>          |
| <b>CESSNA</b><br>175, 175A-C            | SA02186AK<br>HARTZELL PROPELLER        | LYCOMING O-360-()()()<br>180 HP @ 2700 RPM    | HC-C2YR-1BF<br>F8477-4                    | 80" TO 78"            | 835-23<br>C-3568-P<br>C-3568<br>835-23P     | <b>1878</b>          |
| <b>CESSNA</b><br>177 CARDINAL           | STC-SA906CE<br>ROBERT WILLIAMS (AVCON) | LYCOMING O-360-A1A<br>180 HP @ 2700 RPM       | HC-C2YK-1BF<br>F7666A-2                   | 74" TO 72"            |   | <b>363</b>           |
| <b>CESSNA</b><br>177 CARDINAL           | STC-SA2508WE<br>HOLIDAY AERO           | LYCOMING O-360-A1D<br>180 HP @ 2700 RPM       | HC-C2YR-1BF<br>F7666A-2                   | 74" TO 72"            |   | <b>360</b>           |
| <b>CESSNA</b><br>177 CARDINAL           | STC-SA545CE<br>ROBERT WILLIAMS         | LYCOMING O-360-A1A<br>180 HP @ 2700 RPM       | HC-C2YR-1B<br>F7666A-2                    | 74"                   |   | <b>361</b>           |
| <b>CESSNA</b><br>177B CARDINAL          | STC-SA1556GL<br>HARTZELL PROPELLER     | LYCOMING O-360-A1F6(D)<br>180 HP @ 2700 RPM   | HC-C3YR-1RF<br>F7282<br>F7282*1           | 74.0" TO 73.0"        | A-2295-1P<br>A-2295-1<br>C-4582-P<br>C-4582 | <b>358</b>           |
| <b>CESSNA</b><br>177RG, F177RG CARDINAL | STC-SA1556GL<br>HARTZELL PROPELLER     | LYCOMING IO-360-A1B6(D)<br>200 HP @ 2700 RPM  | HC-C3YR-1RF<br>F7282                      | 74.0" TO 73.0"        | A-2295-1<br>A-2295-1P<br>C-4582<br>C-4582-P | <b>1080</b>          |

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|---|--|--|---|----------------------------------|--|----------------------|
| <b>CESSNA</b><br>180(), 182()               | SA02278AK<br>P. PONK                   | TCM (I)O-550-D, O-470-K,-L,-R,-S,-U,-50<br>300 HP @ 2700 RPM     | PHC-G3YF-1RF<br>F8068<br>F8068+2                                | 84" to 78"                       | D-4798-1<br>D-4798-3<br>D-4798-1P<br>D-4798-3P<br>C-4582-P | <b>2850</b>          |
| <b>CESSNA</b><br>180, 182 Skylane, Skywagon | SA02735CH<br>Vitatoe Aviation LLC      | Continental IO-550-F<br>285 HP @ 2700 RPM                        | HC-G3YF-1RF<br>F8068*4  | 82" - 78"                        | C-4582<br>C-4582-P<br>D-5732-P                             | <b>2940</b>          |
| <b>CESSNA</b><br>180, 182 Skylane, Skywagon | SA02821CH<br>Hartzell Propeller        | Continental IO-550-F<br>285 HP @ 2700 RPM                        | HC-G3YF-1RF<br>F8068*4  | 82" - 78"                        | C-4582<br>C-4582-P<br>D-5732-P                             | <b>3004</b>          |
| <b>CESSNA</b><br>180 SKYWAGON               | 5A6                                    | CONTINENTAL O-470-A,-J(2550 rpm);-K(230 hp)<br>225 HP @ 2600 RPM | HC-82XF-1, HC-A2XF-1, HC-82XF-1A, HC-A2XF-1A                    | 8433; 84" to 82", 8833<br>NO CUT | 835-13   | <b>2138</b>          |
| <b>CESSNA</b><br>180 SKYWAGON               | 5A6                                    | CONTINENTAL O-470-A,-J(2550 rpm);-K(230 hp)<br>225 HP @ 2600 RPM | HC-82VF-1, HC-A2VF-1, HC-82VF-1A, HC-A2VF-1A<br>V8833<br>V8833N | 8433; 84" to 82", 8833<br>NO CUT | 835-13   | <b>2139</b>          |
| <b>CESSNA</b><br>180 SKYWAGON               | 5A6                                    | CONTINENTAL O-470-A,-J(2550 rpm);-K(230 hp)<br>225 HP @ 2600 RPM | HC-A2MVF-1A<br>MV8433N<br>MV8833N                               | 8433; 84" to 82", 8833<br>NO CUT | 835-13   | <b>364</b>           |
| <b>CESSNA</b><br>180                        | SA00852AT<br>HARTZELL PROPELLER        | CONTINENTAL O-470-A,J,K,L,R,S<br>230 HP @ 2600 RPM               | PHC-C3YF-1RF<br>F7691<br>F7691*1                                | 78.0" TO 77.0"                   | A-2295-1P<br>A-2295-1<br>C-3535-1P                         | <b>1624</b>          |
| <b>CESSNA</b><br>180K SKYWAGON              | SA00852AT<br>HARTZELL PROPELLER INC.   | CONTINENTAL O-470-U<br>230 HP @ 2400 RPM                         | PHC-C3YF-1RF<br>F7691   | 77.0 TO 78.0                     | A-2295-1<br>A-2295-1P<br>C-3535-1<br>C-3535-1P             | <b>2582</b>          |

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|--|---|--|----------------------------------|-----------------------|---|----------------------|
| <b>CESSNA</b><br>180                             | SA090185C<br>TEXAS SKYWAYS              | TCM O-550F/TS<br>300 HP @ 2700 RPM                   | PHC-C3YF-1RF<br>F8068*1          | 82                    | D-5732-P                                    | <b>2599</b>          |
| <b>CESSNA</b><br>180J Skywagon                   | SA01320CH<br>Wipaire                    | Continental O-470-R, -S<br>230 HP @ 2600 RPM         | PHC-G3YF-1RF<br>F8468A-2R        |                       |   | <b>2875</b>          |
| <b>CESSNA</b><br>180K Skywagon                   | SA02735CH<br>Vitatoe Aviation LLC       | Continental O-470-U<br>230 HP @ 2400 RPM             | HC-C3YF-1RF<br>F8068*4           | 82" - 78"             | A-2295-1P<br>A-2295-1                       | <b>2860</b>          |
| <b>CESSNA</b><br>180K Skywagon                   | SA02821CH<br>Hartzell Propeller         | Continental O-470-U<br>230 HP @ 2400 RPM             | HC-C3YF-1RF<br>F8068*4           | 82" - 78"             | A-2295-1P<br>A-2295-1                       | <b>2973</b>          |
| <b>CESSNA</b><br>180 SKYWAGON                    | STC-SA09025SC<br>HARTZELL PROPELLER     | CONTINENTAL O-470-K, -L, -R, -S<br>230 HP @ 2600 RPM | PHC-G3YF-1RF<br>F7691            | 78.0" TO 77.0"        | C-4582<br>C-4582-P                          | <b>1082</b>          |
| <b>CESSNA</b><br>180 SKYWAGON                    | STC-SA09025SC<br>HARTZELL PROPELLER     | CONTINENTAL O-470-K, -L, -R, -S<br>230 HP @ 2600 RPM | PHC-G3YF-1RF<br>F7691            | 78.0" TO 77.0"        | D-5732-P<br>D-5732                          | <b>1680</b>          |
| <b>CESSNA</b><br>180 SKYWAGON                    | STC-SA09025SC<br>HARTZELL PROPELLER     | CONTINENTAL O-470-U<br>230 HP @ 2400 RPM             | PHC-G3YF-1RF<br>F7691<br>F7691*1 | 78.0" TO 77.0"        | D-4798-1P<br>D-4798-1<br>D-5732-P<br>D-5732 | <b>1437</b>          |
| <b>CESSNA</b><br>180 SKYWAGON                    | STC-SA09025SC<br>HARTZELL PROPELLER     | CONTINENTAL O-470-U<br>230 HP @ 2400 RPM             | PHC-G3YF-1RF<br>F7691            | 78.0" TO 77.0"        | C-4582-P<br>C-4582                          | <b>1679</b>          |
| <b>CESSNA</b><br>180, 182 SKYWAGON (SKYLANE 182) | STC-SE4988NM/SA09018SC<br>TEXAS SKYWAYS | CONTINENTAL IO-520-D<br>300 HP @ 2850 RPM            | PHC-G3YF-1RF<br>F7691<br>F7691*1 | 78.0" TO 77.0"        | D-5732-P                                    | <b>1083</b>          |
| <b>CESSNA</b><br>180, 182 SKYWAGON (SKYLANE 182) | STC-SE4988NM/SA09018SC<br>TEXAS SKYWAYS | CONTINENTAL IO-520-D<br>300 HP @ 2850 RPM            | PHC-G3YF-1RF<br>F7691<br>F7691*1 | 78.0" TO 77.0"        | C-4582-P                                    | <b>1677</b>          |



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|----------------------------------|--|--|-----------------------------------|----------------------------------|--|----------------------|
| <b>CESSNA</b><br>180( ) Skywagon | SA02735CH<br>Vitatoe Aviation LLC      | CONTINENTAL IO-520-F (de-rated)<br>235 HP @ 2700 RPM                         | HC-C3YF-1RF<br>F8068*4            | 82" - 78"                        | D-5732-P                                       | <b>2904</b>          |
| <b>CESSNA</b><br>180( ) Skywagon | SA02821CH<br>Hartzell Propeller        | CONTINENTAL IO-520-F (de-rated)<br>235 HP @ 2700 RPM                         | HC-C3YF-1RF<br>F8068*4            | 82" - 78"                        | D-5732-P                                       | <b>2981</b>          |
| <b>CESSNA</b><br>180( ) SKYWAGON | SA02735CH<br>Vitatoe Aviation LLC      | CONTINENTAL O-470-A, -K, -J, -L, -S<br>230 HP @ 2600 RPM                     | PHC-C3YF-1RF<br>F8068*4           | 82" - 78"                        | C-3535-1<br>C-3535-1P<br>A-2295-1<br>A-2295-1P | <b>2903</b>          |
| <b>CESSNA</b><br>180( ) SKYWAGON | SA02821CH<br>Hartzell Propeller        | CONTINENTAL O-470-A, -K, -J, -L, -S<br>230 HP @ 2600 RPM                     | PHC-C3YF-1RF<br>F8068*4           | 82" - 78"                        | C-3535-1<br>C-3535-1P<br>A-2295-1<br>A-2295-1P | <b>2980</b>          |
| <b>CESSNA</b><br>180( ) Skywagon | SA02821CH<br>Hartzell Propeller        | TELEDYNE CONTINENTAL O-470-U,<br>230 HP @ 2400 RPM                           | PHC-C3YF-1RF<br>F8068*4           | 82" - 78"                        | D-5732-P                                       | <b>3040</b>          |
| <b>CESSNA</b><br>180( ) Skywagon | SA02735CH<br>VITATOE AVIATION LLC      | TELEDYNE CONTINENTAL O-470-U<br>230 HP @ 2400 RPM                            | PHC-C3YF-1RF<br>F8068*4           | 82" - 78"                        | D-5732-P                                       | <b>3039</b>          |
| <b>CESSNA</b><br>180(), 182()    | SA02278AK<br>P. PONK                   | CONTINENTAL IO-520-D, IO-550-D, 0-470-K,-L,-R,-S,-U,-50<br>300 HP @ 2700 RPM | PHC-C3YF-1RF<br>F8068<br>F8068+2  | 84 TO 78                         | C-3575-P<br>A-2295-1P                          | <b>2026</b>          |
| <b>CESSNA</b><br>180A,B SKYWAGON | 5A6                                    | CONTINENTAL O-470-K<br>230 HP @ 2600 RPM                                     | HC-A2MVF-1A<br>MV8433N<br>MV8833N | 8433; 84" to 82", 8833<br>NO CUT | 835-13   | <b>1639</b>          |
| <b>CESSNA</b><br>180A,B SKYWAGON | 5A6                                    | CONTINENTAL O-470-K<br>230 HP @ 2600 RPM                                     | HC-82XF-1A, HC-A2XF-1A<br>8433    | 8433; 84" to 82", 8833<br>NO CUT | 835-13   | <b>2306</b>          |

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|---|--|--|---|----------------------------------|-----------------------|----------------------|
| <b>CESSNA</b><br>180A,B SKYWAGON                      | 5A6                                      | CONTINENTAL O-470-K<br><br>230 HP @ 2600 RPM                 | HC-82VF-1A, HC-A2VF-1A<br><br>V8433<br>V8433N | 8433; 84" to 82", 8833<br>NO CUT | 835-13                | <b>2307</b>          |
| <b>CESSNA</b><br>180, A, B, C, D, E, F, G, H SKYWAGON | STC-SA816SW<br>PETERSON AIRCRAFT         | CONTINENTAL O-470-A, -J, -R, -K, -L<br><br>230 HP @ 2600 RPM | BHC-82XF-3, BHC-A2XF-3                        | 88" NO CUT OFF                   | 837-18<br>837-11      | <b>2140</b>          |
| <b>CESSNA</b><br>180, A, B, C, D, E, F, G, H SKYWAGON | STC-SA816SW<br>PETERSON AIRCRAFT         | CONTINENTAL O-470-A, -J, -R, -K, -L<br><br>230 HP @ 2600 RPM | BHC-A2(M)VF-3<br>MV8833N<br>V8833             | 80"-R, 86"-A,J, 88"-K,L          |                       | <b>2142</b>          |
| <b>CESSNA</b><br>180, A, B, C, D, E, F, G, H SKYWAGON | STC-SA816SW<br>PETERSON AIRCRAFT         | CONTINENTAL O-470-A, -J, -R, -K, -L<br><br>230 HP @ 2600 RPM | BHC-82VF-3, BHC-A2VF-3<br>V8833               | 88" NO CUT OFF                   | 837-18<br>837-11      | <b>2141</b>          |
| <b>CESSNA</b><br>180, A, B, C, D, E, F, G, H SKYWAGON | STC-SA816SW<br>PETERSON AIRCRAFT         | CONTINENTAL O-470-A, -J, -R, -K, -L<br><br>230 HP @ 2600 RPM | BHC-A2MVF-3<br>MV8833N                        | 80"-R, 86"-A,J, 88"-K,L          |                       | <b>367</b>           |
| <b>CESSNA</b><br>180, A, B, C, D, E, F, G, H SKYWAGON | STC-SA816SW<br>PETERSON AIRCRAFT         | CONTINENTAL O-470-A, -J, -R, -K, -L<br><br>230 HP @ 2600 RPM | BHC-A2MVF-3<br>MV8833N                        | 88" NO CUT OFF                   | 837-18<br>837-11      | <b>366</b>           |
| <b>CESSNA</b><br>180, 180(A-H), J, K SKYWAGON         | STC-SA00785AT<br>Air Plains Services     | CONTINENTAL IO-550-D<br><br>300 HP @ 2700 RPM                | PHC-C3YF-1RF<br>F7691                         | 78.0" TO 77.0"                   | C-3535-1P             | <b>1459</b>          |
| <b>CESSNA</b><br>180, 180(A-H), J, K SKYWAGON         | STC-SA00785AT<br>DAVIS AVIATION SERVICES | CONTINENTAL IO-550-D<br><br>300 HP @ 2700 RPM                | PHC-C3YF-1RF<br>F8468A-6R                     | 80.0" TO 78.0"                   | C-3535-1<br>C-3535-1P | <b>1085</b>          |
| <b>CESSNA</b><br>180, 180(A-H), J, K SKYWAGON         | STC-SA00852AT<br>HARTZELL PROPELLER      | CONTINENTAL O-470-K, -L, -R, -S<br><br>230 HP @ 2600 RPM     | PHC-C3YF-1RF<br>F7691                         | 78.0" TO 77.0"                   | C-3535-1P             | <b>1460</b>          |
| <b>CESSNA</b><br>180, 180(A-H), J, K SKYWAGON         | STC-SA00852AT<br>HARTZELL PROPELLER      | CONTINENTAL O-470-U<br><br>230 HP @ 2400 RPM                 | PHC-C3YF-1RF<br>F7691                         | 78.0" TO 77.0"                   | C-3535-1P             | <b>1576</b>          |

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|---|--|--|--------------------------------------|----------------------------------|--|----------------------|
| <b>CESSNA</b><br>180, 180(A-H), J, K SKYWAGON | STC-SA00852AT<br>HARTZELL PROPELLER      | CONTINENTAL O-470-A, J, K, L, R, S<br>230 HP @ 2600 RPM      | PHC-C3YF-1RF<br>F8468A-6R            | 80.0" TO 78.0"                   | A-2295-1P<br>A-2295-1<br>C-3535-1P             | <b>1461</b>          |
| <b>CESSNA</b><br>180, 180(A-H), J, K SKYWAGON | STC-SA00852AT<br>HARTZELL PROPELLER      | CONTINENTAL O-470-K,L<br>230 HP @ 2600 RPM                   | PHC-G3YF-1RF<br>F8468A-6R            | 80.0" TO 78.0"                   | D-5732-P                                       | <b>1462</b>          |
| <b>CESSNA</b><br>180, 180(A-H), J, K SKYWAGON | STC-SA00852AT<br>HARTZELL PROPELLER      | CONTINENTAL O-470-K, -L, -R, -S<br>230 HP @ 2600 RPM         | PHC-G3YF-1RF<br>F7691                | 78.0" TO 77.0"                   | D-5732-P                                       | <b>1463</b>          |
| <b>CESSNA</b><br>180, 180(A-H), J, K SKYWAGON | STC-SA00852AT<br>HARTZELL PROPELLER      | CONTINENTAL O-470-U<br>230 HP @ 2400 RPM                     | PHC-G3YF-1RF<br>F7691                | 78.0" TO 77.0"                   | D-5732-P                                       | <b>1577</b>          |
| <b>CESSNA</b><br>180, 180(A-H), J, K SKYWAGON | STC-SA00852AT<br>HARTZELL PROPELLER      | CONTINENTAL O-470-U<br>230 HP @ 2600 RPM                     | PHC-C3YF-1RF<br>F8468A-6R            | 80.0" TO 78.0"                   | A-2295-1<br>A-2295-1P<br>C-3535-1<br>C-3535-1P | <b>2766</b>          |
| <b>CESSNA</b><br>180, 180(A-H), J, K SKYWAGON | STC-SA01345AT<br>DAVIS AVIATION SERVICES | CONTINENTAL IO-520-D<br>285 HP @ 2700 RPM                    | PHC-C3YF-1RF<br>F8468A-6R            | 80.0" TO 78.0"                   | C-3535-1P                                      | <b>1465</b>          |
| <b>CESSNA</b><br>180, 180(A-H), J, K SKYWAGON | STC-SA01345AT<br>DAVIS AVIATION SERVICES | CONTINENTAL IO-520-D<br>285 HP @ 2700 RPM                    | PHC-C3YF-1RF<br>F7691                | 78.0" TO 77.0"                   | C-3535-1P                                      | <b>1466</b>          |
| <b>CESSNA</b><br>180, 180(A-H), J, K SKYWAGON | STC-SA01442AT<br>DAVIS AVIATION SERVICES | CONTINENTAL O-470-U (with STC SE1153AT)<br>252 HP @ 2625 RPM | PHC-C3YF-1RF<br>F7691                | 78.0" TO 77.0"                   | C-3535-1P                                      | <b>1464</b>          |
| <b>CESSNA</b><br>180C,D,E,F SKYWAGON          | 5A6                                      | CONTINENTAL O-470-L<br>230 HP @ 2600 RPM                     | (B)HC-A2MVf-1A<br>MV8433N<br>MV8833N | 8433; 84" to 82", 8833<br>NO CUT | 835-13   | <b>1640</b>          |
| <b>CESSNA</b><br>180C,D,E,F SKYWAGON          | 5A6                                      | CONTINENTAL O-470-L<br>HP @ RPM                              | HC-82XF-1DB1<br>8433                 |                                  |  | <b>2368</b>          |

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|--------------------------------------|--|--|---|-----------------------|--|----------------------|
| <b>CESSNA</b><br>180C,D,E,F SKYWAGON | 5A6                                    | CONTINENTAL O-470-L<br>HP @ RPM                  | BHC-A2XF-1A                                 |                       |  | <b>2367</b>          |
| <b>CESSNA</b><br>180C,D,E,F SKYWAGON | 5A6                                    | CONTINENTAL O-470-L<br>HP @ RPM                  | HC-A2VF-1A<br>V8833<br>V8833N               |                       |  | <b>2369</b>          |
| <b>CESSNA</b><br>182 SKYLANE         | STC-SA09000SC<br>HARTZELL PROPELLER    | CONTINENTAL O-470-L, -R, -S<br>230 HP @ 2600 RPM | PHC-G3YF-1RF<br>F7691                       | 78.0" TO 77.0"        | C-4582-P<br>C-4582   | <b>1678</b>          |
| <b>CESSNA</b><br>182 SKYLANE         | STC-SA09000SC<br>HARTZELL PROPELLER    | CONTINENTAL O-470-L, -R, -S<br>230 HP @ 2600 RPM | PHC-G3YF-1RF<br>F7691<br>F7691*1<br>F7691*3 | 78.0" TO 77.0"        | D-4798-1<br>D-4798-1P<br>D-4798-3<br>D-4798-3P<br>D-5732-P<br>D-5732 | <b>1423</b>          |
| <b>CESSNA</b><br>182 SKYLANE         | STC-SA09001SC<br>TEXAS SKYWAYS         | CONTINENTAL O-470-L, -R, -S<br>230 HP @ 2600 RPM | PHC-G3YF-1RF<br>F7691                       | 78.0" TO 77.0"        | C-4582<br>C-4582-P<br>D-5732-P<br>D-5732                             | <b>1084</b>          |
| <b>CESSNA</b><br>182 SKYLANE         | STC-SA09001SC<br>TEXAS SKYWAYS         | CONTINENTAL O-470-U/TS<br>HP @ RPM               | PHC-G3YF-1RF<br>F7691                       | 78.0" TO 77.0"        | C-4582-P<br>D-5732-P<br>C-4582<br>D-5732                             | <b>1573</b>          |
| <b>CESSNA</b><br>182 SKYLANE         | STC-SA09001SC<br>TEXAS SKYWAYS         | CONTINENTAL O-470-U<br>230 HP @ 2600 RPM         | PHC-G3YF-1RF<br>F7691                       | 78.0" TO 77.0"        | C-4582-P<br>D-5732-P<br>C-4582<br>D-5732                             | <b>1572</b>          |
| <b>CESSNA</b><br>182Q, R SKYLANE     | STC-SA09000SC<br>HARTZELL PROPELLER    | CONTINENTAL O-470-U<br>230 HP @ 2400 RPM         | PHC-G3YF-1RF<br>F7691                       | 78.0" TO 77.0"        | C-4582-P<br>C-4582   | <b>1676</b>          |

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|---|--|--|---|-----------------------|--|----------------------|
| <b>CESSNA</b><br>182Q, R SKYLANE                          | STC-SA09000SC<br>HARTZELL PROPELLER    | CONTINENTAL O-470-U<br>230 HP @ 2400 RPM   | PHC-G3YF-1RF<br>F7691                       | 78.0" TO 77.0"        | D-5732-P<br>D-5732                       | <b>1552</b>          |
| <b>CESSNA</b><br>182 SKYLANE                              | STC-SA09001SC<br>TEXAS SKYWAYS         | CONTINENTAL O-470-50<br>HP @ RPM   | PHC-G3YF-1RF<br>F7691                       | 78.0" TO 77.0"        | C-4582-P<br>D-5732-P<br>C-4582<br>D-5732 | <b>1574</b>          |
| <b>CESSNA</b><br>182 SKYLANE                              | SA09026SC<br>TEXAS SKYWAYS             | CONTINENTAL O-520-F/TS, O-520-U/TS<br>285 HP @ 2700 RPM                                | PHC-C3YF-1RF<br>F8068                       | 82                    | C-4582-P<br>D-5732-P                     | <b>2485</b>          |
| <b>CESSNA</b><br>182 SKYLANE                              | SA09026SC<br>TEXAS SKYWAYS             | CONTINENTAL O-520-F/TS, O-520-U/TS<br>285 HP @ 2700 RPM                                | HC-G3YF-1RF<br>F8068                        | 82"                   | D-5732-P                                 | <b>2658</b>          |
| <b>CESSNA</b><br>182 SKYLANE                              | SA09026SC<br>TEXAS SKYWAYS             | CONTINENTAL O-520-F/TS, O-520-U/TS<br>285 HP @ 2700 RPM                                | HC-C3YF-1RF<br>F8068                        | 82                    | C-4582-P<br>D-5732-P                     | <b>2659</b>          |
| <b>CESSNA</b><br>182 SKYLANE                              | SA00152WI<br>AIR PLAINS SERVICES       | CONTINENTAL IO-520-D<br>300 HP @ 2850 RPM  | PHC-L3YF-1RF<br>F7691<br>F7691*1<br>F7691*2 | 78"                   | C-4582-P                                 | <b>1086</b>          |
| <b>CESSNA</b><br>182 Skylane                              | SA00152WI<br>Air Plains                | Continental Motors IO-550-D<br>300 HP @ 2700 RPM                                       | PHC-L3YF-1RF<br>F7691<br>F7691*1<br>F7691*2 | 78"                   | C-4582-P                                 | <b>3092</b>          |
| <b>CESSNA</b><br>182S, 182T, T182T Skylane, Turbo Skylane | SA03078CH<br>Hartzell Propeller Inc.   | Lycoming IO-540-AB1A5 @ 230 hp:<br>(T182T: TIO-540-AK1A @ 235 hp)<br>235 HP @ 2400 RPM | HC-F3YR-1ARF<br>F8068*4<br>F8068*6          | 82" - 78"             | A-2295-14P<br>A-2295-3<br>A-2295-3P      | <b>2857</b>          |
| <b>CESSNA</b><br>R182, TR182, FR182 SKYLANE RG            | SA03078CH<br>Hartzell Propeller Inc.   | LYCOMING O-540-J3C5D, O-540-L3C5D+turbo<br>235 HP @ 2400 RPM                           | HC-C3YR-1RF<br>F8068*4                      | 82" - 80"             | A-2295-3P                                | <b>3138</b>          |

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|--|--|--|---|-----------------------|--|----------------------|
| <b>CESSNA</b><br>FR182, R182, TR182, T182 Skylane<br>RG, Turbo Skylane | SA03078CH<br>Hartzell Propeller        | Lycoming O-540-J3C5D, O-540-L3C5D + turbo<br>235 HP @ 2400 RPM | HC-I3YR-1RF<br>F7693F+2*1<br>F7693FB+2*2      | 80" - 78"             | 105012P<br>105012<br>D-6750-P<br>D-6750        | <b>3081</b>          |
| <b>CESSNA</b><br>182 SKYLANE   | STC-SA108CE<br>AEROSTOL COMPANY        | HP @ RPM   | BHC-82VF-3, BHC-A2VF-3<br>V8433-2<br>V8433N-2 | 82.3"                 |  | <b>2145</b>          |
| <b>CESSNA</b><br>182 SKYLANE   | STC-SA108CE<br>AEROSTOL COMPANY        | HP @ RPM   | BHC-82XF-3, BHC-A2XF-3<br>8433-2              | 82.3"                 |  | <b>2144</b>          |
| <b>CESSNA</b><br>182 SKYLANE   | STC-SA108CE<br>AEROSTOL COMPANY        | HP @ RPM   | BHC-A2MVF-3<br>MV8433N-2                      | 82.3"                 |  | <b>371</b>           |
| <b>CESSNA</b><br>182 Skylane   | SA02735CH<br>Vitatoe Aviation LLC      | Continental O-470-U-TS<br>250 HP @ 2625 RPM                    | HC-G3YF-1RF<br>F8068*4                        | 82" - 78"             | D-4798-3<br>D-4798-3P<br>D-4798-1P<br>D-4798-1 | <b>2937</b>          |
| <b>CESSNA</b><br>182 Skylane   | SA02821CH<br>Hartzell Propeller        | Continental O-470-U-TS<br>250 HP @ 2625 RPM                    | HC-G3YF-1RF<br>F8068*4                        | 82" - 78"             | D-4798-3<br>D-4798-3P<br>D-4798-1P<br>D-4798-1 | <b>3001</b>          |
| <b>CESSNA</b><br>182 Skylane   | SA02735CH<br>Vitatoe Aviation LLC      | Continental O-470-U-TS<br>250 HP @ 2600 RPM                    | HC-G3YF-1RF<br>F8068*4                        | 82" - 78"             | D-4798-3<br>D-4798-3P<br>D-4798-1P<br>D-4798-1 | <b>2936</b>          |
| <b>CESSNA</b><br>182 Skylane   | SA02821CH<br>Hartzell Propeller        | Continental O-470-U-TS<br>250 HP @ 2600 RPM                    | HC-G3YF-1RF<br>F8068*4                        | 82" - 78"             | D-4798-3<br>D-4798-3P<br>D-4798-1P<br>D-4798-1 | <b>3000</b>          |

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|---------------------------------|--|---|----------------------------------|-----------------------|--|----------------------|
| <b>CESSNA</b><br>182( ) Skylane | SA02735CH<br>Vitatoe Aviation LLC      | Continental IO-520-D<br>300 HP @ 2850 RPM | HC-G3YF-1RF<br>F8068-2*2         | 80"-78"               | D-5732-P<br>D-4798-1<br>D-4798-1P<br>D-4798-3P<br>D-4798-3 | <b>2895</b>          |
| <b>CESSNA</b><br>182( ) Skylane | SA02821CH<br>Hartzell Propeller        | Continental IO-520-D<br>300 HP @ 2850 RPM | HC-G3YF-1RF<br>F8068-2*2         | 80"-78"               | D-5732-P<br>D-4798-1<br>D-4798-1P<br>D-4798-3P<br>D-4798-3 | <b>2977</b>          |
| <b>CESSNA</b><br>182( ) Skylane | SA02735CH<br>Vitatoe Aviation LLC      | CONTINENTAL IO-550-D<br>300 HP @ 2700 RPM | HC-G3YF-1RF<br>F8068*4           | 82" to 78"            | D-5732-P<br>D-4798-1P<br>D-4798-1<br>D-4798-3              | <b>2913</b>          |
| <b>CESSNA</b><br>182( ) Skylane | SA02735CH<br>Vitatoe Aviation LLC      | Continental IO-520-D<br>300 HP @ 2850 RPM | HC-G3YF-1RF<br>F8068-2*2         | 80" to 78"            | D-4798-1P<br>D-4798-1<br>D-4798-3P<br>D-4798-3             | <b>2932</b>          |
| <b>CESSNA</b><br>182( ) Skylane | SA02821CH<br>Hartzell Propeller        | CONTINENTAL IO-550-D<br>300 HP @ 2700 RPM | HC-G3YF-1RF<br>F8068*4           | 82" to 78"            | D-5732-P<br>D-4798-1P<br>D-4798-1<br>D-4798-3              | <b>2990</b>          |
| <b>CESSNA</b><br>182( ) Skylane | SA02821CH<br>Hartzell Propeller        | Continental IO-520-D<br>300 HP @ 2850 RPM | HC-G3YF-1RF<br>F8068-2*2         | 80" to 78"            | D-4798-1P<br>D-4798-1<br>D-4798-3P<br>D-4798-3             | <b>2998</b>          |

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|---|--|--|----------------------------------|-----------------------|--|----------------------|
| <b>CESSNA</b><br>182 - 182P SKYLANE         | SA02735CH<br>Vitatoe Aviation LLC      | CONTINENTAL O-470-L, -R, -S<br>230 HP @ 2600 RPM | PHC-G3YF-1RF<br>F8068*4          | 82" - 78"             | D-4798-1<br>D-4798-1P<br>D-4798-3<br>D-4798-3P | <b>2912</b>          |
| <b>CESSNA</b><br>182 - 182P SKYLANE         | SA02821CH<br>Hartzell Propeller        | CONTINENTAL O-470-L, -R, -S<br>230 HP @ 2600 RPM | PHC-G3YF-1RF<br>F8068*4          | 82" - 78"             | D-4798-1<br>D-4798-1P<br>D-4798-3<br>D-4798-3P | <b>2989</b>          |
| <b>CESSNA</b><br>180, 182 Skywagon, Skylane | SA02735CH<br>Vitatoe Aviation LLC      | Continental IO-520-F<br>280 HP @ 2700 RPM        | HC-G3YF-1RF<br>F8068*4           | 82" - 78"             | C-4582<br>C-4582-P<br>D-5732-P                 | <b>2939</b>          |
| <b>CESSNA</b><br>180, 182 Skywagon, Skylane | SA02821CH<br>Hartzell Propeller        | Continental IO-520-F<br>280 HP @ 2700 RPM        | HC-G3YF-1RF<br>F8068*4           | 82" - 78"             | C-4582<br>C-4582-P<br>D-5732-P                 | <b>3003</b>          |
| <b>CESSNA</b><br>182( ) Skylane             | SA02735CH<br>Vitatoe Aviation LLC      | Continental O-470-U<br>230 HP @ 2400 RPM         | HC-G3YF-1RF<br>F8068*4           | 82"-80"               | D-4798-1<br>D-4798-1P<br>D-4798-3P<br>D-4798-3 | <b>2823</b>          |
| <b>CESSNA</b><br>182( ) Skylane             | SA02821CH<br>Hartzell Propeller        | Continental O-470-U<br>230 HP @ 2400 RPM         | HC-G3YF-1RF<br>F8068*4           | 82"-80"               | D-4798-1<br>D-4798-1P<br>D-4798-3P<br>D-4798-3 | <b>2970</b>          |
| <b>CESSNA</b><br>182 Skylane                | SA02735CH<br>Vitatoe Aviation LLC      | Continental O-470-U<br>252 HP @ 2625 RPM         | HC-G3YF-1RF<br>F8068*4           | 82" - 78"             | D-4798-3<br>D-4798-3P<br>D-4798-1P<br>D-4798-1 | <b>2938</b>          |



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|---|--|--|---|-----------------------|--|----------------------|
| <b>CESSNA</b><br>182 Skylane  | SA02821CH<br>Hartzell Propeller        | Continental O-470-U<br>252 HP @ 2625 RPM                     | HC-G3YF-1RF<br>F8068*4                          | 82" - 78"             | D-4798-3<br>D-4798-3P<br>D-4798-1P<br>D-4798-1 | <b>3002</b>          |
| <b>CESSNA</b><br>R182, TR182, FR182 SKYLANE RG                      | SA03078CH<br>Hartzell Propeller Inc.   | LYCOMING O-540-J3C5D, O-540-L3C5D+turbo<br>235 HP @ 2400 RPM | HC-C3YR-1RF<br>F7693F+2*1                       | 80" - 78"             | A-2295-3P                                      | <b>3139</b>          |
| <b>CESSNA</b><br>R182, TR182, FR182, T182 SKYLANE RG, TURBO SKYLANE | SA03078CH<br>Hartzell Propeller        | Lycoming O-540-J3C5D, O-540-L3C5D+turbo<br>235 HP @ 2400 RPM | HC-I3YR-1RF<br>F8068*4<br>F8068B*3              | 82" - 78"             | 105012P<br>105012<br>D-6750-P<br>D-6750        | <b>3137</b>          |
| <b>CESSNA</b><br>182 SKYLANE  | SA09026SC<br>TEXAS SKYWAYS             | CONTINENTAL O-520-F/TS, O-520-U/TS<br>285 HP @ 2700 RPM      | PHC-G3YF-1RF<br>F8068                           | 82"                   | D-5732-P                                       | <b>1791</b>          |
| <b>CESSNA</b><br>182H, 182J thru 182N, 182P thru 182R SKYLANE       | SA01218AT<br>JOHN JEWELL               | CONTINENTAL IO-550-D<br>300 HP @ 2700 RPM                    | PHC-G3YF-1RF<br>F7691                           | 78.0" TO 77.0"        | D-5732-P                                       | <b>1468</b>          |
| <b>CESSNA</b><br>182S, 182T, T182T Skylane, Turbo Skylane           | SA03078CH<br>Hartzell Propeller Inc.   | Lycoming O-540-AB1A5, TIO-540-AK1A<br>235 HP @ 2400 RPM      | HC-F3YR-1ARF<br>F7693F+2*1<br>F7693FK+2         | 80" - 77"             | A-2295-14P<br>A-2295-3P<br>A-2295-3            | <b>2854</b>          |
| <b>CESSNA</b><br>182S, 182T, T182T                                  | SA11143SO<br>TEXAS SKYWAYS             | TCM IO-550-N<br>310 HP @ 2700 RPM                            | HC-H3YF-1RF<br>F8068                            | 82" to 80"            | C-3570<br>C-3570-P                             | <b>2806</b>          |
| <b>CESSNA</b><br>182, 182A,B,C,D,E SKYLANE                          | STC-SA129EA<br>HARTZELL PROPELLER      | CONTINENTAL O-470-L<br>230 HP @ 2600 RPM                     | BHC-82XF-1A, BHC-A2XF-1A<br>8433-2              | 82.3" TO 80"          | 835-25   | <b>2146</b>          |
| <b>CESSNA</b><br>182, 182A,B,C,D,E SKYLANE                          | STC-SA129EA<br>HARTZELL PROPELLER      | CONTINENTAL O-470-L<br>230 HP @ 2600 RPM                     | BHC-82VF-1A, BHC-A2VF-1A<br>V8433-2<br>V8433N-2 | 82.3" TO 80"          | 835-25   | <b>2147</b>          |

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|--|---|---|---|-----------------------|--|----------------------|
| <b>CESSNA</b><br>182, 182A,B,C,D,E SKYLANE                       | STC-SA129EA<br>HARTZELL PROPELLER       | CONTINENTAL O-470-L<br>230 HP @ 2600 RPM                      | BHC-A2MVF-1A<br>MV8433N-2   | 82.3" TO 80"          | 835-25   | 372                  |
| <b>CESSNA</b><br>182,A,B,C,D,E,F,G SKYLANE                       | 3A13                                    | CONTINENTAL O-470-L, -R<br>230 HP @ 2600 RPM                  | BHC-82VF-1, BHC-A2VF-1, BHC-82VF-1A, BHC-A2VF-1A<br>V8433-2<br>V8433N-2 | 82.2" TO 80"          | 835-13   | 2143                 |
| <b>CESSNA</b><br>182,A,B,C,D,E,F,G SKYLANE                       | 3A13                                    | CONTINENTAL O-470-L, -R<br>230 HP @ 2600 RPM                  | BHC-A2MVF-1A<br>MV8433N-2   | 82.2" TO 80"          | 835-13   | 370                  |
| <b>CESSNA</b><br>182,A,B,C,D,E,F,G SKYLANE                       | 3A13                                    | CONTINENTAL O-470-L,-R<br>230 HP @ 2600 RPM                   | BHC-C2YF-1B<br>F8468-2  | 82.0" TO 80.0"        | 835-23   | 369                  |
| <b>CESSNA</b><br>182(E, F, G, H, J, K, L, M, N, P, Q, R) SKYLANE | SA3825SW<br>PETERSON CONVERSION         | CONTINENTAL IO-470-F<br>260 HP @ 2625 RPM                     | BHC-G2YF-1BF<br>F8468A-2R   | 82" TO 80"            | D-4798P<br>D-4798-2P                           | 2032                 |
| <b>CESSNA</b><br>182 THRU 182G SKYLANE                           | STC-SA09000SC<br>HARTZELL PROPELLER     | CONTINENTAL O-470-L, -R, -S<br>230 HP @ 2600 RPM              | PHC-G3YF-1RF<br>F7691   | 78.0" TO 77.0"        | D-4798-3P                                      | 1719                 |
| <b>CESSNA</b><br>182, 182A THRU G SKYLANE                        | STC-SA09000SC<br>HARTZELL PROPELLER     | CONTINENTAL O-470-L, -R, -S<br>230 HP @ 2600 RPM              | BHC-G2YF-1BF<br>F8468A-2R   | 82" TO 80"            | D-4798-2P                                      | 1721                 |
| <b>CESSNA</b><br>182, 182(A-H), (J-N), (P-R) SKYLANE             | STC-SA00854AT<br>JOHN JEWELL AVIATION   | CONTINENTAL O-470-L, -R, -S<br>230 HP @ 2600 RPM              | PHC-G3YF-1RF<br>F7691   | 78.0" TO 77.0"        | D-5732-P                                       | 1467                 |
| <b>CESSNA</b><br>182, 182(A-H), (J-N), (P-R) SKYLANE             | STC-SA00854AT<br>JOHN JEWELL AVIATION   | CONTINENTAL O-470-L, -R, -S, -U<br>230 HP @ 2600 RPM          | PHC-G3YF-1RF<br>F8468A-6R   | 80.0" TO 78.0"        | D-5732-P                                       | 1418                 |
| <b>CESSNA</b><br>182 thru 182G SKYLANE                           | SA01443AT<br>JOHN JEWELL AIRCRAFT, INC. | CONTINENTAL O-470-U (with STC SE01153AT)<br>252 HP @ 2625 RPM | PHC-C3YF-1RF<br>F7691   | 78.0" TO 77.0"        | C-3535-1P<br>C-3535-1<br>A-2295-1P<br>A-2295-1 | 1477                 |
| <b>CESSNA</b><br>182(Q,R) SKYLANE                                | SA00854AT<br>JOHN JEWELL AIRCRAFT, INC. | CONTINENTAL O-470-U<br>230 HP @ 2400 RPM                      | PHC-G3YF-1RF<br>F8468A-6R   | 80.0" TO 77.0"        | D-5732-P                                       | 3607                 |

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|---|---|---|----------------------------------|-----------------------|-----------------|----------------------|
| <b>CESSNA</b><br>182(Q,R) SKYLANE                             | SA00854AT<br>JOHN JEWELL AIRCRAFT, INC.     | CONTINENTAL O-470-U<br>230 HP @ 2400 RPM                      | PHC-G3YF-1RF<br>F7691            | 78.0" TO 77.0"        | D-5732-P        | 1578                 |
| <b>CESSNA</b><br>182H, 182J thru 182N, 182P thru 182R SKYLANE | SA01443AT<br>JOHN JEWELL AIRCRAFT, INC.     | CONTINENTAL O-470-U (with STC SE01153AT)<br>252 HP @ 2625 RPM | PHC-G3YF-1RF<br>F7691            | 78.0" TO 77.0"        | D-5732-P        | 1476                 |
| <b>CESSNA</b><br>182, 182(A-H), (J-N), (P-R) SKYLANE          | STC-SA01302AT<br>JOHN JEWELL AIRCRAFT, INC. | CONTINENTAL IO-520-D<br>285 HP @ 2700 RPM                     | PHC-G3YF-1RF<br>F8468A-6R        | 80.0" TO 78.0"        | D-5732-P        | 1475                 |
| <b>CESSNA</b><br>182, 182(A-H), (J-N), (P-R) SKYLANE          | STC-SA01302AT<br>JOHN JEWELL AIRCRAFT, INC. | CONTINENTAL IO-520-D<br>285 HP @ 2700 RPM                     | PHC-C3YF-1RF<br>F8468A-6R        | 80.0" TO 78.0"        | D-5732-P        | 1472                 |
| <b>CESSNA</b><br>182, 182(A-H), (J-N), (P-R) SKYLANE          | STC-SA01302AT<br>JOHN JEWELL AIRCRAFT, INC. | CONTINENTAL IO-520-D<br>285 HP @ 2700 RPM                     | PHC-C3YF-1RF<br>F7691            | 78.0" TO 77.0"        | D-5732-P        | 1473                 |
| <b>CESSNA</b><br>182H, 182J thru 182N, 182P thru 182R SKYLANE | STC-SA01302AT<br>JOHN JEWELL AIRCRAFT, INC. | CONTINENTAL IO-520-D<br>300 HP @ 2850 RPM                     | PHC-G3YF-1RF<br>F7691            | 78.0" TO 77.0"        | D-5732-P        | 1474                 |
| <b>CESSNA</b><br>182, 182(A-H), (J-N), (P-R) SKYLANE          | STC-SA01218AT<br>JOHN JEWELL AIRCRAFT, INC. | CONTINENTAL IO-550-D<br>300 HP @ 2700 RPM                     | PHC-G3YF-1RF<br>F7691            | 78.0" TO 77.0"        | D-5732-P        | 1471                 |
| <b>CESSNA</b><br>182, 182(A-H), (J-N), (P-R) SKYLANE          | STC-SA01218AT<br>JOHN JEWELL AIRCRAFT, INC. | CONTINENTAL IO-550-D<br>300 HP @ 2700 RPM                     | PHC-C3YF-1RF<br>F7691            | 78.0" TO 77.0"        | D-5732-P        | 1470                 |
| <b>CESSNA</b><br>182, 182(A-H), (J-N), (P-R) SKYLANE          | STC-SA01218AT<br>JOHN JEWELL AIRCRAFT, INC. | CONTINENTAL IO-550-D<br>300 HP @ 2700 RPM                     | PHC-C3YF-1RF<br>F8468A-6R        | 80.0" TO 78.0"        | D-5732-P        | 1469                 |
| <b>CESSNA</b><br>182H, 182J thru 182N, 182P thru 182R SKYLANE | SA01218AT<br>JOHN JEWELL AIRCRAFT, INC.     | CONTINENTAL IO-550-D<br>300 HP @ 2700 RPM                     | PHC-G3YF-1RF<br>F8468A-6R        | 80.0" TO 77.0"        | D-5732-P        | 1088                 |
| <b>CESSNA</b><br>182E, F, G, H, J, K, L, M SKYLANE            | STC-SA692SW<br>AEROSTOL CO.                 | HP @ RPM  | BHC-82XF-3, BHC-A2XF-3<br>8433-2 | 82.3"                 |                 | 2148                 |

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|---|--|--|---|-----------------------|--|----------------------|
| CESSNA<br>182E, F, G, H, J, K, L, M SKYLANE | STC-SA692SW<br>AEROSTOL CO.            | HP @ RPM   | BHC-82VF-3, BHC-A2VF-3<br>V8433-2<br>V8433N-2 | 82.3"                 |  | 2149                 |
| CESSNA<br>182E, F, G, H, J, K, L, M SKYLANE | STC-SA692SW<br>AEROSTOL CO.            | HP @ RPM   | BHC-A2MVF-3<br>MV8433N-2                      | 82.3"                 |  | 373                  |
| CESSNA<br>182 H THRU 182P SKYLANE           | STC-SA09000SC<br>HARTZELL PROPELLER    | CONTINENTAL O-470-L, -R, -S<br>230 HP @ 2600 RPM | BHC-G2YF-1BF<br>F8468A-2R                     | 82" TO 80"            | D-4798-2<br>D-4798-2P<br>D-4798<br>D-4798P | 1720                 |
| CESSNA<br>182H THRU 182P SKYLANE            | STC-SA09000SC<br>HARTZELL PROPELLER    | CONTINENTAL O-470-L, -R, -S<br>230 HP @ 2600 RPM | PHC-G3YF-1RF<br>F7691                         | 78.0" TO 77.0"        | D-4798-1P                                  | 1718                 |
| CESSNA<br>182 H-R SKYLANE                   | SA00152WI<br>AIR PLAINS SERVICES       | CONTINENTAL IO-550-D<br>300 HP @ 2700 RPM        | PHC-G3YF-1RF<br>F8468A-6R                     | 80.0" TO 78.0"        | C-4582-P                                   | 1954                 |
| CESSNA<br>(T)R182 (TURBO) SKYLANE RG        | SA00861WI<br>AIR PLAINS SERVICES       | LYCOMING IO-540-K1A5, K1G5<br>300 HP @ 2700 RPM  | HC-C3YR-1RF<br>F8468A-6R<br>F8468AB-6R        | 80"                   | A-2295-6P                                  | 1548                 |
| CESSNA<br>182S SKYLANE                      | 3A13                                   | LYCOMING IO-540-AB1A5<br>235 HP @ 2400 RPM       | HC-F3YR-1RF<br>F8068-2X                       | 80"                   | A-2295-4P                                  | 1623                 |
| CESSNA<br>WREN 460 (C-182) SKYLANE          | STC-SA403SW<br>AEROSTOL CO.            | HP @ RPM   | BHC-82XF-3, BHC-A2XF-3<br>8433-2              | 82.3"                 | 837-18<br>837-11                           | 2150                 |
| CESSNA<br>WREN 460 (C-182) SKYLANE          | STC-SA403SW<br>AEROSTOL CO.            | HP @ RPM   | BHC-82VF-3, BHC-A2VF-3<br>V8433-2             | 82.3"                 | 837-18<br>837-11                           | 2151                 |
| CESSNA<br>WREN 460 (C-182) SKYLANE          | STC-SA403SW<br>AEROSTOL CO.            | HP @ RPM   | BHC-A2MVF-3<br>MV8433N-2                      | 82.3"                 | 837-18<br>837-11                           | 378                  |

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|--|--|---|-----------------------------------|-----------------------|--|----------------------|
| <b>CESSNA</b><br>WREN 460H,J,K,L,M (C-182) SKYLANE                               | STC-SA485SW<br>AEROSTOL CO.            | HP @ RPM  | BHC-82XF-3, BHC-A2XF-3<br>8433-2  | 82.3"                 | 837-18<br>837-11   | <b>2152</b>          |
| <b>CESSNA</b><br>WREN 460H,J,K,L,M (C-182) SKYLANE                               | STC-SA485SW<br>AEROSTOL CO.            | HP @ RPM  | BHC-82VF-3, BHC-A2VF-3<br>V8433-2 | 82.3"                 | 837-18<br>837-11   | <b>2153</b>          |
| <b>CESSNA</b><br>WREN 460H,J,K,L,M (C-182) SKYLANE                               | STC-SA485SW<br>AEROSTOL CO.            | HP @ RPM  | BHC-A2MVF-3<br>MV8433N-2          | 82.3"                 | 837-18<br>837-11   | <b>379</b>           |
| <b>CESSNA</b><br>A185(E,F) Skywagon  | SA04053CH<br>Wipaire                   | CONTINENTAL IO-550-D<br>300 HP @ 2700 RPM   | HC-C3YF-1N<br>NG8301-3            | 82                    | A-2295-1P  | <b>3460</b>          |
| <b>CESSNA</b><br>185( ), U206( ) 207(A) See Notes ( )<br>Skywagon, Stationair( ) | SA02735CH<br>Vitaoe Aviation LLC       | CONTINENTAL IO-520-F, IO-520-D<br>300 HP @ 2850 RPM   | HC-C3YF-1RF<br>F7693DF+2*1        | 80"-78"               | C-3575<br>C-3575-P<br>A-2295-2P<br>A-2295-2<br>A-2295-1P<br>A-2295-1 | <b>2909</b>          |
| <b>CESSNA</b><br>185( ), U206( ) 207(A) See Notes ( )<br>Skywagon, Stationair( ) | SA02821CH<br>Hartzell Propeller        | CONTINENTAL IO-520-F, IO-520-D<br>300 HP @ 2850 RPM   | HC-C3YF-1RF<br>F7693DF+2*1        | 80"-78"               | C-3575<br>C-3575-P<br>A-2295-2P<br>A-2295-2<br>A-2295-1P<br>A-2295-1 | <b>2986</b>          |
| <b>CESSNA</b><br>180(), 185(), 210-210C, 210-5(A)<br>Skywagon, Centurion         | SA02735CH<br>Vitaoe Aviation LLC       | CONTINENTAL O-470-U/TS, IO-470-E,-F,-<br>S.. HP- 260 (230 O-470). RPM- 2625<br>(2400 (O-470)<br>260 HP @ 2625 RPM | PHC-C3YF-1RF<br>F8068*4           | 82" - 78"             | C-3575<br>C-3575-P   | <b>2905</b>          |
| <b>CESSNA</b><br>180(), 185(), 210-210C, 210-5(A)<br>Skywagon, Centurion         | SA02821CH<br>Hartzell Propeller        | CONTINENTAL O-470-U/TS, IO-470-E,-F,-<br>S.. HP- 260 (230 O-470). RPM- 2625<br>(2400 (O-470)<br>260 HP @ 2625 RPM | PHC-C3YF-1RF<br>F8068*4           | 82" - 78"             | C-3575-P<br>C-3575   | <b>2982</b>          |

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|--|--|--|---|-----------------------|---|----------------------|
| <b>CESSNA</b><br>185 SKYWAGON  | STC-SA00501AT<br>DAVIS AVIATION SERVICES | CONTINENTAL IO-520-D<br>300 HP @ 2850 RPM        | PHC-C3YF-1RF<br>F8468A-6R               | 80.0" TO 77.0"        | C-3535-1P                               | <b>1580</b>          |
| <b>CESSNA</b><br>185 SKYWAGON  | STC-SA1443NM<br>HARTZELL PROPELLER       | CONTINENTAL IO-520-D<br>300 HP @ 2850 RPM        | HC-C3YF-1RF<br>F9587C-15R<br>F9587C-17S |                       | C-3535-1                                | <b>382</b>           |
| <b>CESSNA</b><br>185, 185A, 185B, 185C, 185D, 185E, & S185F SKYWAGON | SA2118NM<br>Turbotech, Inc.              | LYCOMING TIO-540-(J2BD,J2B)<br>350 HP @ 2575 RPM | HC-C3YR-1RF<br>F7854                    | 80"                   | C-4582                                  | <b>381</b>           |
| <b>CESSNA</b><br>( )185( ) Skywagon                                  | SA02735CH<br>Vitatoe Aviation LLC        | CONTINENTAL IO-550-D<br>300 HP @ 2700 RPM        | HC-C3YF-1RF<br>F7693DF+2*1              | 80-78                 | C-3575-P<br>C-3575<br>C-3535P<br>C-3535 | <b>2906</b>          |
| <b>CESSNA</b><br>185, A185 Skywagon                                  | SA02735CH<br>Vitatoe Aviation LLC        | Continental IO-550-D<br>300 HP @ 2700 RPM        | HC-C3YF-1RF<br>F8068*4                  | 82" - 78"             | C-3535P<br>C-3535<br>C-3575-P<br>C-3575 | <b>2858</b>          |
| <b>Cessna</b><br>185, A185 Skywagon                                  | SA02821CH<br>Hartzell Propeller          | Continental IO-550-D<br>300 HP @ 2700 RPM        | HC-C3YF-1RF<br>F8068*4                  | 82" - 78"             | C-3535P<br>C-3535<br>C-3575-P<br>C-3575 | <b>2972</b>          |
| <b>CESSNA</b><br>A185E, A185F SKYWAGON                               | SA02528CH-D<br>HARTZELL PROPELLER        | CONTINENTAL IO-520-D<br>285 HP @ 2700 RPM        | PHC-C3YF-1RF<br>F8468A-2R*1             | 86" - 82"             | C-3575<br>C-3575-P                      | <b>2732</b>          |
| <b>CESSNA</b><br>185, 185(A-E), A185(E,F)(AG) SKYWAGON               | STC-SA00501AT<br>DAVIS AVIATION SERVICES | CONTINENTAL IO-520-D<br>285 HP @ 2700 RPM        | PHC-C3YF-1RF<br>F7691                   | 78.0" TO 77.0"        | C-3535-1P                               | <b>1093</b>          |
| <b>CESSNA</b><br>185, 185(A-E), A185(E,F)(AG) SKYWAGON               | STC-SA00501AT<br>DAVIS AVIATION SERVICES | CONTINENTAL IO-520-D<br>285 HP @ 2700 RPM        | PHC-C3YF-1RF<br>F8468A-6R               | 80.0" TO 77.0"        | C-3535-1P                               | <b>1091</b>          |

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|--|---|---|---|-----------------------|---|----------------------|
| <b>CESSNA</b><br>185, 185(A-E), A185(E,F)(AG)<br>SKYWAGON  | STC-SA2933SO<br>DAVIS AVIATION SERVICES | CONTINENTAL IO-550-D<br>300 HP @ 2700 RPM | PHC-C3YF-1RF<br>F7691                                 | 78.0" TO 77.0"        | C-3535-1P                                   | <b>1478</b>          |
| <b>CESSNA</b><br>185, 185(A-E), A185(E,F)(AG)<br>SKYWAGON  | STC-SA2933SO<br>DAVIS AVIATION SERVICES | CONTINENTAL IO-550-D<br>300 HP @ 2700 RPM | PHC-C3YF-1RF<br>F8468A-6R                             | 80.0" TO 77.0"        | C-3535-1P                                   | <b>1090</b>          |
| <b>CESSNA</b><br>185, 185(A-E), A185(E,F)(AG)<br>SKYWAGON  | STC-SA2933SO<br>DAVIS AVIATION SERVICES | CONTINENTAL IO-550-D<br>300 HP @ 2700 RPM | HC-C3YF-1RF<br>F9587C-15S                             | 82.0" TO 80.0"        | C-3535-1P                                   | <b>380</b>           |
| <b>CESSNA</b><br>185E, A185E, A185F SKYWAGON               | STC-SA587W<br>ALASKA PROPELLER          | CONTINENTAL IO-520-D<br>285 HP @ 2700 RPM | HC-C3YF-1RF<br>F9587C-15S                             | 82"                   | C-3535-1                                    | <b>383</b>           |
| <b>CESSNA</b><br>A185E, A185F SKYWAGON                     | STC-SA1443NM<br>HARTZELL PROPELLER      | CONTINENTAL IO-520-D<br>285 HP @ 2700 RPM | HC-C3YF-1RF<br>F9587C-15R<br>F9587C-17S               | 82.0" TO 80.0"        | C-3535-1<br>C-3535-1P<br>C-3575-P<br>C-3575 | <b>1263</b>          |
| <b>CESSNA</b><br>A185E, A185F SKYWAGON                     | STC-SA1443NM<br>HARTZELL PROPELLER      | CONTINENTAL IO-520-D<br>300 HP @ 2850 RPM | PHC-C3YF-1RF<br>F8468A-6R<br>F8468A-6R*1<br>F8468A-8R | 80.0" TO 77.0"        | C-3535-1<br>C-3535-1P<br>C-3575<br>C-3575-P | <b>1095</b>          |
| <b>CESSNA</b><br>A185E, A185F (SEAPLANES ONLY)<br>SKYWAGON | STC-SA930SW<br>AEROSTOL COMPANY         | TCM IO-520-D<br>HP @ 2800 RPM             | HC-92WF-3<br>W8447                                    | 84" TO 80"            | 837-18<br>837-11                            | <b>384</b>           |
| <b>CESSNA</b><br>A188, A188A, A188B AG WAGON               | STC-SA00470AT<br>HARTZELL PROPELLER     | CONTINENTAL IO-520-D<br>285 HP @ 2700 RPM | PHC-C3YF-1RF<br>F8468A-6R<br>F8468A-6R*1              | 80.0" TO 77.0"        | C-3535-1P                                   | <b>1097</b>          |
| <b>CESSNA</b><br>A188, A188A, A188B AG WAGON               | STC-SA00470AT<br>HARTZELL PROPELLER     | CONTINENTAL IO-520-D<br>285 HP @ 2700 RPM | PHC-C3YF-1RF<br>F7691                                 | 78.0" TO 77.0"        | C-3535-1P                                   | <b>1100</b>          |

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|---|---|--|---------------------------------------|-----------------------|-----------------------|----------------------|
| <b>CESSNA</b><br>A188, A188A, A188B AG WAGON  | STC-SA895SO<br>HARTZELL PROPELLER       | CONTINENTAL IO-520-D<br>285 HP @ 2700 RPM                      | HC-C3YF-1RF<br>F9587C-17S             | 82" TO 80"            | C-3535-1              | <b>390</b>           |
| <b>CESSNA</b><br>A188, A188A, A188B AG WAGON  | STC-SA3243SO<br>DAVIS AVIATION SERVICES | CONTINENTAL IO-550-D<br>300 HP @ 2700 RPM                      | HC-C3YF-1RF<br>F9587C-15S             | 82.0" TO 80.0"        | C-3535-1<br>C-3535-1P | <b>385</b>           |
| <b>CESSNA</b><br>A188, A188A, A188B AG WAGON  | STC-SA3243SO<br>DAVIS AVIATION SERVICES | CONTINENTAL IO-550-D<br>300 HP @ 2700 RPM                      | PHC-C3YF-1RF<br>F8468A-6R             | 80.0" TO 77.0"        | C-3535-1P             | <b>1096</b>          |
| <b>CESSNA</b><br>A188, A188A, A188B AG WAGON  | STC-SA3243SO<br>DAVIS AVIATION SERVICES | CONTINENTAL IO-550-D<br>300 HP @ 2700 RPM                      | PHC-C3YF-1RF<br>F7691                 | 78.0" TO 77.0"        | C-3535-1P             | <b>1479</b>          |
| <b>CESSNA</b><br>A188A, A188B, T188C AG WAGON | STC-SA8343SW<br>CHARLES YATES           | LYCOMING IO-540-K1A5, -K1B5, -K1G5, -S1A5<br>300 HP @ 2700 RPM | HC-C2YR-1BF<br>F8475R<br>F8475T+2     | 84" TO 83"            | 835-44P<br>835-44     | <b>391</b>           |
| <b>CESSNA</b><br>A188B/A2 AG WAGON            | STC-61-6(AUST.)<br>PAY'S AIR SERVICE    | LYCOMING IO-720-A1B<br>400 HP @ 2625 RPM                       | HC-C3YR-1RF<br>F8475R                 | 86"                   | C-3535-1              | <b>387</b>           |
| <b>CESSNA</b><br>A188B/A2 AG WAGON            | STC-61-6(AUST.)<br>PAY'S AIR SERVICE    | LYCOMING IO-720-A1B<br>400 HP @ 2625 RPM                       | HC-C3YR-1RF<br>F8483                  | 86"                   | C-3535-1              | <b>388</b>           |
| <b>CESSNA</b><br>A188B, T188C AG WAGON        | STC-SA3609SW<br>CHARLES YATES           | LYCOMING IO-720-A1B<br>400 HP @ 2625 RPM                       | HC-C3YR-1RF<br>F8475R                 | 86"                   | C-3535-1P<br>C-3535-1 | <b>1581</b>          |
| <b>CESSNA</b><br>T188C/A2 AG HUSKY            | STC-61-6(AUST.)<br>PAY'S AIR SERVICE    | LYCOMING IO-720-A1B<br>400 HP @ 2625 RPM                       | HC-C3YR-1RF<br>F8483                  | 86"                   | 835-36                | <b>386</b>           |
| <b>CESSNA</b><br>T188C/A2 AG HUSKY            | STC-61-6(AUST.)<br>PAY'S AIR SERVICE    | LYCOMING IO-720-A1B<br>400 HP @ 2625 RPM                       | HC-C3YR-1RF<br>F8475R                 | 86"                   | 835-36                | <b>389</b>           |
| <b>CESSNA</b><br>190, 195, A, B               | STC-SA120NW<br>WILLIAM WIPRUD           | JACOBS R-755S<br>350 HP @ 2200 RPM                             | HC-B3Z20-4<br>10160-12E<br>10160N-12E | 89" MIN               | 836-20                | <b>392</b>           |



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|--|--|---|--|-----------------------|-----------------------|----------------------|
| <b>CESSNA</b><br>205 (A), (210-5 (A) ) SUPER SKYLANE                                       | STC-SA09467SC<br>TEXAS SKYWAYS         | CONTINENTAL IO-550-F<br>300 HP @ 2700 RPM                                   | PHC-C3YF-1RF<br>F8468A-6R                | 80" TO 79"            | A-2295-1P             | <b>1530</b>          |
| <b>CESSNA</b><br>( )206( ), ( )210( ) SEE NOTES  | SA02735CH<br>Vitatoe Aviation LLC      | CONTINENTAL IO-520-A, IO-520-J, TSIO-520-C, TSIO-520-H<br>285 HP @ 2700 RPM | HC-J3YF-1RF<br>F7693DF+2*1<br>F7693DFB+2 | 80"-78"               | C-4582-1P<br>C-4582-1 | <b>2902</b>          |
| <b>CESSNA</b><br>( )206( ), ( )210( ) SEE NOTES  | SA02821CH<br>Hartzell Propeller        | CONTINENTAL IO-520-A, IO-520-J, TSIO-520-C, TSIO-520-H<br>285 HP @ 2700 RPM | HC-J3YF-1RF<br>F7693DF+2*1<br>F7693DFB+2 | 80"-78"               | C-4582-1P<br>C-4582-1 | <b>2979</b>          |
| <b>CESSNA</b><br>( )206( ), T207(A) See Notes Super Skywagon, Stationair, Turbo Stationair | SA02735CH<br>Vitatoe Aviation LLC.     | CONTINENTAL IO-550-F, TSIO-520-M<br>300 HP @ 2700 RPM                       | HC-C3YF-1RF<br>F7693DF+2*1               | 80"-78"               | A-2295-1P<br>A-2295-1 | <b>2907</b>          |
| <b>CESSNA</b><br>( )206( ), T207(A) See Notes Super Skywagon, Stationair, Turbo Stationair | SA02821CH<br>Hartzell Propeller        | CONTINENTAL IO-550-F, TSIO-520-M<br>300 HP @ 2700 RPM                       | HC-C3YF-1RF<br>F7693DF+2*1               | 80"-78"               | A-2295-1P<br>A-2295-1 | <b>2984</b>          |
| <b>Cessna</b><br>( )206( ), T207(A) Super Skywagon, Stationair                             | SA02735CH<br>Vitatoe Aviation LLC      | Continental IO-550-F, TSIO-520-G<br>300 HP @ 2700 RPM                       | HC-C3YF-1RF<br>F8068*4                   | 82" - 78"             | A-2295-1P<br>A-2295-1 | <b>2888</b>          |
| <b>CESSNA</b><br>( )206( ), T207(A) Super Skywagon, Stationair                             | SA02821CH<br>Hartzell Propeller        | Continental IO-550-F, TSIO-520-G<br>300 HP @ 2700 RPM                       | HC-C3YF-1RF<br>F8068*4                   | 82" - 78"             | A-2295-1P<br>A-2295-1 | <b>2975</b>          |
| <b>CESSNA</b><br>( )206( ), ( )207( ) Super Skywagon, Stationair                           | SA02735CH<br>Vitatoe Aviation LLC      | Continental IO-550-F<br>300 HP @ 2700 RPM                                   | HC-C3YF-1RF<br>F8068*4                   | 80"-78"               | D-5732-P              | <b>2869</b>          |
| <b>CESSNA</b><br>( )206( ), ( )207( ) Super Skywagon, Stationair                           | SA02821CH<br>Hartzell Propeller        | Continental IO-550-F<br>300 HP @ 2700 RPM                                   | HC-C3YF-1RF<br>F8068*4                   | 80"-78"               | D-5732-P              | <b>2974</b>          |
| <b>CESSNA</b><br>( )206( ), 210D Super Skywagon, Stationair, Turbo Stationair, Cen         | SA02735CH<br>Vitatoe Aviation LLC      | CONTINENTAL IO-520-A, TSIO-520-C<br>285 HP @ 2700 RPM                       | HC-C3YF-1RF<br>F8068*4                   | 82" - 78"             | A-2295-1P<br>A-2295-1 | <b>2911</b>          |

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|---|--|---|--|-----------------------|---|----------------------|
| <b>CESSNA</b><br>( )206( ), 210D Super Skywagon,<br>Stationair, Turbo Stationair, Cen                               | SA02821CH<br>Hartzell Propeller            | CONTINENTAL IO-520-A, TSIO-520-C<br>285 HP @ 2700 RPM | HC-C3YF-1RF<br>F8068*4                   | 82" - 78"             | A-2295-1P<br>A-2295-1                       | <b>2988</b>          |
| <b>CESSNA</b><br>U206G s/n U20604075 & after,210K<br>thru 210N Super Skywagon,Stationair,<br>Sta.7, Sta.8.Centurion | SA02735CH<br>Vitatoe Aviation LLC          | Continental IO-520-F, IO-520-L<br>300 HP @ 2850 RPM   | HC-J3YF-1RF<br>F8068-2*2                 | 80"-78"               | C-4582-1<br>C-4582-1P                       | <b>2890</b>          |
| <b>CESSNA</b><br>U206G s/n U20604075 & after,210K<br>thru 210N Super Skywagon,Stationair,<br>Sta.7, Sta.8.Centurion | SA02821CH<br>Hartzell Propeller            | Continental IO-520-F, IO-520-L<br>300 HP @ 2850 RPM   | HC-J3YF-1RF<br>F8068-2*2                 | 80"-78"               | C-4582-1<br>C-4582-1P                       | <b>2976</b>          |
| <b>CESSNA</b><br>( )206( ) See Notes Super<br>Skywagon,Stationair,Turbo Stationai                                   | SA02735CH<br>Vitatoe Aviation LLC          | CONTINENTAL IO-550-F<br>300 HP @ 2700 RPM             | HC-C3YF-1RF<br>F7693DF+2*1               | 80"-78"               | A-2295-1P<br>A-2295-1<br>D-5732-P<br>D-5732 | <b>2908</b>          |
| <b>CESSNA</b><br>( )206( ) See Notes Super<br>Skywagon,Stationair,Turbo Stationai                                   | SA02821CH<br>Hartzell Propeller            | CONTINENTAL IO-550-F<br>300 HP @ 2700 RPM             | HC-C3YF-1RF<br>F7693DF+2*1               | 80"-78"               | A-2295-1P<br>A-2295-1<br>D-5732-P<br>D-5732 | <b>2985</b>          |
| <b>CESSNA</b><br>TU206G TURBO STATIONAIR  | SA02735CH<br>Vitatoe Aviation LLC          | CONTINENTAL TSIO-520-M<br>310 HP @ 2700 RPM           | HC-J3YF-1RF<br>F7693DF+2*1               | 80"-78"               | C-4582-1P<br>C-4582-1                       | <b>2933</b>          |
| <b>CESSNA</b><br>TU206G TURBO STATIONAIR  | SA02821CH<br>Hartzell Propeller            | CONTINENTAL TSIO-520-M<br>310 HP @ 2700 RPM           | HC-J3YF-1RF<br>F7693DF+2*1               | 80"-78"               | C-4582-1P<br>C-4582-1                       | <b>2999</b>          |
| <b>Cessna</b><br>U206G s/n U20604075 and after, 210K<br>thru 210L Stationair, Centurion                             | SA02735CH<br>Vitatoe Aviation LLC          | CONTINENTAL IO-520-F, IO-520-L<br>300 HP @ 2850 RPM   | HC-J3YF-1RF<br>F7693DF+2*1<br>F7693DFB+2 | 80"-78"               | D-5732-P<br>C-4582-1<br>C-4582-1P           | <b>2910</b>          |
| <b>CESSNA</b><br>U206G s/n U20604075 and after, 210K<br>thru 210L Stationair, Centurion                             | SA02821CH<br>Hartzell Propeller            | CONTINENTAL IO-520-F, IO-520-L<br>300 HP @ 2850 RPM   | HC-J3YF-1RF<br>F7693DF+2*1<br>F7693DFB+2 | 80"-78"               | D-5732-P<br>C-4582-1<br>C-4582-1P           | <b>2987</b>          |

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|--|--|---|---|-----------------------|---|----------------------|
| <b>CESSNA</b><br>P206(A,B,C,D,E) U206(B,C,D,E,F,G)<br>Stationair                 | SA02735CH<br>Vitatoe Aviation LLC      | CONTINENTAL IO-550-N<br>310 HP @ 2700 RPM             | HC-J3YF-1RF<br>F7693DF+2*1                  | 80"-78"               | C-4582-1P<br>C-4582-1                       | <b>2927</b>          |
| <b>CESSNA</b><br>P206(A,B,C,D,E) U206(B,C,D,E,F,G)<br>Stationair                 | SA02821CH<br>Hartzell Propeller        | CONTINENTAL IO-550-N<br>310 HP @ 2700 RPM             | HC-J3YF-1RF<br>F7693DF+2*1                  | 80"-78"               | C-4582-1P<br>C-4582-1                       | <b>2995</b>          |
| <b>CESSNA</b><br>( )206( ) Super Skylane,Turbo Stationair                        | SA02735CH<br>Vitatoe Aviation LLC      | Continental TSIO-520-C, IO-520-A<br>285 HP @ 2700 RPM | HC-J3YF-1RF<br>F8068*4                      | 82" - 78"             | C-4582-1P<br>C-4582-1                       | <b>2941</b>          |
| <b>CESSNA</b><br>( )206( ) Super Skylane,Turbo Stationair                        | SA02821CH<br>Hartzell Propeller        | Continental TSIO-520-C, IO-520-A<br>285 HP @ 2700 RPM | HC-J3YF-1RF<br>F8068*4                      | 82" - 78"             | C-4582-1P<br>C-4582-1                       | <b>3005</b>          |
| <b>CESSNA</b><br>( )206( ) Stationair  | SA02735CH<br>Vitatoe Aviation LLC      | CONTINENTAL IO-550-N<br>310 HP @ 2700 RPM             | HC-J3YF-1RF<br>F8068*4                      | 82"-78"               | C-4582-1P<br>C-4582-1                       | <b>2942</b>          |
| <b>CESSNA</b><br>( )206( ) Stationair  | SA02821CH<br>Hartzell Propeller        | CONTINENTAL IO-550-N<br>310 HP @ 2700 RPM             | HC-J3YF-1RF<br>F8068*4                      | 82"-78"               | C-4582-1P<br>C-4582-1                       | <b>3006</b>          |
| <b>CESSNA</b><br>TU206G, ( )206( ) Super Skylane,<br>Stationair,Turbo Stationair | SA02735CH<br>Vitatoe Aviation LLC      | CONTINENTAL TSIO-520-M, IO-550-F<br>300 HP @ 2700 RPM | HC-J3YF-1RF<br>F8068*4                      | 82"-78"               | C-4582-1P<br>C-4582-1                       | <b>2946</b>          |
| <b>CESSNA</b><br>TU206G, ( )206( ) Super Skylane,<br>Stationair,Turbo Stationair | SA02821CH<br>Hartzell Propeller        | CONTINENTAL TSIO-520-M, IO-550-F<br>300 HP @ 2700 RPM | HC-J3YF-1RF<br>F8068*4                      | 82"-78"               | C-4582-1P<br>C-4582-1                       | <b>3009</b>          |
| <b>CESSNA</b><br>P206A-P206E, U206B-U206G  | SA02507AT-D<br>ATLANTIC AERO           | Continental IO-550-N<br>310 HP @ 2700 RPM             | PHC-J3YF-1RF<br>F8068                       | 82"-78"               | C-4582-P<br>C-4582<br>A-2295-1P<br>A-2295-1 | <b>2950</b>          |
| <b>CESSNA</b><br>(T)206H STATIONAIR  | SA01878SE<br>SOLOY, LLC                | ROLLS-ROYCE/ALLISON 250-B17F/2<br>450 HP @ 2030 RPM   | HC-B3TF-7A<br>T10173FN-11R<br>T10173FNK-11R | 90.375-88.375         | 835-39EP                                    | <b>2454</b>          |

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|---|--|--|----------------------------------|-----------------------|-----------------------|----------------------|
| <b>CESSNA</b><br>206 SERIES SUPER SKYLANE                                       | STC-SA00512AT<br>DAVIS AVIATION SERVICES | CONTINENTAL IO-520-A<br>285 HP @ 2700 RPM          | PHC-J3YF-1RF<br>F8468A-6R        | 80.0" TO 78.0"        | C-4582-P              | 1110                 |
| <b>CESSNA</b><br>206 SERIES SUPER SKYLANE                                       | STC-SA00512AT<br>DAVIS AVIATION SERVICES | CONTINENTAL IO-520-A<br>285 HP @ 2700 RPM          | PHC-J3YF-1RF<br>F7691            | 78.0" TO 77.0"        | C-4582-P              | 1109                 |
| <b>CESSNA</b><br>206 SERIES SUPER SKYLANE                                       | STC-SA00512AT<br>DAVIS AVIATION SERVICES | CONTINENTAL IO-520-A<br>285 HP @ 2700 RPM          | PHC-C3YF-1RF<br>F8468A-6R        | 80.0" TO 77.0"        | A-2295-1<br>A-2295-1P | 1108                 |
| <b>CESSNA</b><br>206 SERIES SUPER SKYLANE                                       | STC-SA00512AT<br>DAVIS AVIATION SERVICES | CONTINENTAL IO-520-A<br>285 HP @ 2700 RPM          | PHC-C3YF-1RF<br>F7691            | 78.0" TO 77.0"        | A-2295-1P             | 1107                 |
| <b>CESSNA</b><br>U206B-U206G  | SA10070SC<br>Texas Skyways               | Teledyne Continental IO-520-F<br>300 HP @ 2850 RPM | HC-C3YF-1RF<br>F8068-2           | 80"                   | D-5732-P              | 3079                 |
| <b>CESSNA</b><br>206H STATIONAIR  | SA01185CH<br>WIPAIRE, INC                | LYCOMING IO-540-AC1A<br>300 HP @ 2700 RPM          | HC-F3YR-1RF<br>F8468A-2R         | 84" TO 78"            | D-4578-1P             | 1707                 |
| <b>CESSNA</b><br>P206, P206(A-E) SUPER SKYLANE                                  | STC-SA685AL<br>HARTZELL PROPELLER        | CONTINENTAL IO-520-A<br>285 HP @ 2700 RPM          | PHC-J3YF-1RF<br>F8468A-6R        | 80.0" TO 77.0"        | C-4582-P<br>C-4582    | 1102                 |
| <b>CESSNA</b><br>T206H Turbo Stationair   | SA03162CH<br>Hartzell Propeller          | Textron Lycoming TIO-540-AJ1A<br>310 HP @ 2500 RPM | HC-F3YR-1ARF<br>F8068*4          | 82" - 80"             | D-4578-1P<br>D-4578-1 | 3087                 |
| <b>CESSNA</b><br>T206H TURBO STATIONAIR   | SA01185CH<br>WIPAIRE, INC                | LYCOMING TIO-540-AJ1A<br>310 HP @ 2500 RPM         | HC-F3YR-1RF<br>F8468A-2R         | 84" TO 78"            | D-4578-1P             | 1708                 |
| <b>CESSNA</b><br>TU206(A-F), TP206A, T207A, TU206(A-F) SKYWAGON, SUPER SKYWAGON | SA10615SC<br>RAM AIRCRAFT INC.           | CONTINENTAL TSIO-520-R<br>310 HP @ 2700 RPM        | PHC-C3YF-1RF<br>F7693F+2         | 80-78                 | A-2295-1P<br>A-2295-1 | 2707                 |
| <b>CESSNA</b><br>TP206(A-E) SUPER SKYLANE                                       | STC-SA685AL<br>HARTZELL PROPELLER        | CONTINENTAL TSIO-520-C<br>285 HP @ 2700 RPM        | PHC-J3YF-1RF<br>F8468A-6R        | 80.0" TO 77.0"        | C-4582-P<br>C-4582    | 1137                 |

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|---|--|---|---|--------------------------|-----------------------|----------------------|
| <b>CESSNA</b><br>TP206(A-E) SUPER SKYLANE                                       | STC-SA685AL<br>HARTZELL PROPELLER        | CONTINENTAL TSIO-520-C<br>285 HP @ 2700 RPM       | (P)HC-C3YF-1RF<br>F8468A-6R<br>F8468A-8R              | 80.0" TO 77.0"           | A-2295-1P             | 1128                 |
| <b>CESSNA</b><br>TU206(A-F) SUPER SKYLANE                                       | STC-SA685AL<br>HARTZELL PROPELLER        | CONTINENTAL TSIO-520-C<br>285 HP @ 2700 RPM       | PHC-C3YF-1RF<br>F8468A-6R                             | 80.0" TO 77.0"           | A-2295-1P             | 1127                 |
| <b>CESSNA</b><br>TP206(A-E), TU206(A-G) SUPER SKYLANE                           | STC-SA01300AT<br>DAVIS AVIATION SERVICES | CONTINENTAL IO-550-F<br>300 HP @ 2700 RPM         | PHC-C3YF-1RF<br>F7691                                 | 78.0" TO 77.0"           | A-2295-1P             | 1112                 |
| <b>CESSNA</b><br>TP206(A-E), TU206(A-G) SUPER SKYLANE                           | STC-SA01300AT<br>DAVIS AVIATION SERVICES | CONTINENTAL IO-550-F<br>300 HP @ 2700 RPM         | PHC-C3YF-1RF<br>F8468A-6R                             | 78.0" TO 77.0"           | A-2295-1P             | 1480                 |
| <b>CESSNA</b><br>TP206(A-E), TU206(A-G) SUPER SKYLANE                           | STC-SA01300AT<br>DAVIS AVIATION SERVICES | CONTINENTAL IO-550-F<br>300 HP @ 2700 RPM         | PHC-J3YF-1RF<br>F7691                                 | 78.0" TO 77.0"           | C-4582-P              | 1121                 |
| <b>CESSNA</b><br>TP206(A-E), TU206(A-G) SUPER SKYLANE                           | STC-SA01300AT<br>DAVIS AVIATION SERVICES | CONTINENTAL IO-550-F<br>300 HP @ 2700 RPM         | PHC-J3YF-1RF<br>F8468A-6R                             | 80.0" TO 78.0"           | C-4582-P              | 1481                 |
| <b>CESSNA</b><br>TP206(A-E), TU206(A-G) SUPER SKYLANE                           | STC-SA4111SW<br>RAM AIRCRAFT CORP.       | CONTINENTAL TSIO-520, -C, -M<br>310 HP @ 2700 RPM | PHC-J3YF-1RF<br>F7663-2Q<br>F7663D-2Q                 | 76" NO REDUCTION ALLOWED | C-4582                | 395                  |
| <b>CESSNA</b><br>U206(B-G) SUPER SKYLANE  | STC-SA685AL<br>HARTZELL PROPELLER        | CONTINENTAL IO-520-F<br>300 HP @ 2850 RPM         | HC-C3YF-1RF<br>F8468A-8R                              | 78" to 77"               | A-2295-1<br>A-2295-1P | 1126                 |
| <b>CESSNA</b><br>TU206(F, G), P206 THRU P206E, TP206A THRU TP206E SUPER SKYLANE | STC-SA685AL<br>HARTZELL PROPELLER        | CONTINENTAL TSIO-520-(C, M)<br>310 HP @ 2700 RPM  | PHC-J3YF-1RF<br>F8468A-6R<br>F8468A-6R*1<br>F8468A-8R | 80" to 77"               | C-4582-P<br>C-4582    | 1136                 |
| <b>CESSNA</b><br>U206G, TU206G SUPER SKYLANE                                    | STC SA2353NM<br>SOLOY                    | ALLISON 250-C20S<br>418 HP @ 1800 RPM             | HC-C3YN-5A<br>FC9587D-2                               | 95" TO 93"               | D-1649                | 398                  |

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|---|---|--|----------------------------------|-----------------------|-----------------------|----------------------|
| <b>CESSNA</b><br>206,U206,U206A SUPER SKYLANE   | SA10010SC<br>TEXAS SKYWAYS              | CONTINENTAL IO-550-F<br>300 HP @ 2700 RPM  | PHC-C3YF-1RF<br>F8068-2          | 80"                   | D-5732-P              | <b>2440</b>          |
| <b>CESSNA</b><br>206, U206, U206A, P206 (A-E) SUPER SKYLANE                                   | STC-SA685AL<br>HARTZELL PROPELLER       | CONTINENTAL IO-520-A<br>285 HP @ 2700 RPM  | (P)HC-C3YF-1RF<br>F8468A-6R      | 80.0" TO 77.0"        | A-2295-1P             | <b>1899</b>          |
| <b>CESSNA</b><br>206,U206,U206A,P206A,TP206A,TU206 A THRU F(TO S/N U-206-02199) SUPER SKYLANE | STC-SA685AL<br>HARTZELL PROPELLER       | CONTINENTAL IO-520-A<br>285 HP @ 2700 RPM  | PHC-C3YF-1RF<br>F8468A-6R        | 80.0" TO 77.0"        | A-2295-1<br>A-2295-1P | <b>1101</b>          |
| <b>CESSNA</b><br>U206A,B,C,D,E,F,G SUPER SKYLANE  | STC-SA2123NM<br>AERO MODS, INC.         | LYCOMING TIO-540-J2BD<br>350 HP @ 2575 RPM | HC-C3YR-1RF<br>F7854             | 80"                   | A-2295-1P<br>A-2295-1 | <b>1499</b>          |
| <b>CESSNA</b><br>U206B,U206C,U206D,U206E,U206F,U206G(up to S/N4074) SUPER SKYLANE             | STC-SA685AL<br>HARTZELL PROPELLER       | CONTINENTAL IO-520-F<br>300 HP @ 2850 RPM  | HC-C3YF-1RF<br>F8468A-8R         | 78" TO 77"            | A-2295-1              | <b>1565</b>          |
| <b>CESSNA</b><br>U206G SUPER SKYLANE  | STC-SA685AL<br>HARTZELL PROPELLER       | CONTINENTAL IO-520-F<br>300 HP @ 2850 RPM  | PHC-J3YF-1RF<br>F8468A-6R        | 80.0" TO 77.0"        | C-4582-P<br>C-4582    | <b>1135</b>          |
| <b>CESSNA</b><br>P206,P206A-P206E,U206B-U206G SUPER SKYLANE                                   | SA10010SC<br>TEXAS SKYWAYS              | CONTINENTAL IO-550-F<br>300 HP @ 2700 RPM  | PHC-J3YF-1RF<br>F8068-2          | 80"                   | D-5732-P              | <b>2439</b>          |
| <b>CESSNA</b><br>206,U206,U206A,TP206A,TU206A THRU F (TO S/N U206-02199) SUPER SKYLANE        | STC-SA685AL<br>HARTZELL PROPELLER       | CONTINENTAL IO-520-A<br>285 HP @ 2700 RPM  | HC-C3YF-1RF<br>F8468A-8R         | 78" TO 77"            | A-2295-1P<br>A-2295-1 | <b>396</b>           |
| <b>CESSNA</b><br>(U,P)206, U206(A-G), P206(A-E) SUPER SKYLANE                                 | STC-SA2830SO<br>DAVIS AVIATION SERVICES | CONTINENTAL IO-550-F<br>300 HP @ 2700 RPM  | PHC-C3YF-1RF<br>F8468A-6R        | 80.0" TO 77.0"        | A-2295-1P             | <b>1103</b>          |
| <b>CESSNA</b><br>(U,P)206, U206(A-G), P206(A-E) SUPER SKYLANE                                 | STC-SA2830SO<br>DAVIS AVIATION SERVICES | CONTINENTAL IO-550-F<br>300 HP @ 2700 RPM  | HC-C3YF-1RF<br>F9587C-15S        | 82.0" TO 80.0"        | A-2295-1P             | <b>1484</b>          |

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|--|--|---|----------------------------------|-----------------------|-----------------------|----------------------|
| <b>CESSNA</b><br>(U,P)206, U206(A-G), P206(A-E)<br>SUPER SKYLANE | STC-SA2830SO<br>DAVIS AVIATION SERVICES  | CONTINENTAL IO-550-F<br>300 HP @ 2700 RPM | PHC-J3YF-1RF<br>F8468A-6R        | 80.0" TO 77.0"        | C-4582-P              | 1105                 |
| <b>CESSNA</b><br>(U,P)206, U206(A-G), P206(A-E)<br>SUPER SKYLANE | STC-SA2830SO<br>DAVIS AVIATION SERVICES  | CONTINENTAL IO-550-F<br>300 HP @ 2700 RPM | PHC-J3YF-1RF<br>F7691            | 78.0" TO 77.0"        | C-4582-P              | 1482                 |
| <b>CESSNA</b><br>(U,P)206, U206(A-G), P206(A-E)<br>SUPER SKYLANE | STC-SA2830SO<br>DAVIS AVIATION SERVICES  | CONTINENTAL IO-550-F<br>300 HP @ 2700 RPM | PHC-C3YF-1RF<br>F7691            | 78.0" TO 77.0"        | A-2295-1P             | 1483                 |
| <b>CESSNA</b><br>207, 207A SKYWAGON                              | SA696AL<br>HARTZELL PROPELLER            | CONTINENTAL IO-520-F<br>300 HP @ 2850 RPM | PHC-C3YF-1RF<br>F8468A-6R        | 80.0" TO 77.0"        | A-2295-1<br>A-2295-1P | 2619                 |
| <b>CESSNA</b><br>207, 207A SKYWAGON, STATIONAIR 7                | SA10011SC<br>TEXAS SKYWAYS               | CONTINENTAL IO-550-F<br>300 HP @ 2700 RPM | PHC-C3YF-1RF<br>F8068-2          | 80"                   | D-5732-P              | 2441                 |
| <b>CESSNA</b><br>207, 207A SKYWAGON,STATIONAIR 7                 | STC-SA696AL<br>HARTZELL PROPELLER        | CONTINENTAL IO-520-F<br>300 HP @ 2850 RPM | HC-C3YF-1RF<br>F8468A-8R         | 78" TO 77"            | A-2295-1              | 400                  |
| <b>CESSNA</b><br>207, 207A SKYWAGON                              | SA696AL<br>HARTZELL PROPELLER            | CONTINENTAL IO-520-F<br>300 HP @ 2850 RPM | HC-C3YF-1RF<br>F8468A-8R         | 78" TO 77"            | A-2295-1<br>A-2295-1P | 2511                 |
| <b>CESSNA</b><br>207, 207A SKYWAGON                              | STC-SA00636AT<br>DAVIS AVIATION SERVICES | CONTINENTAL IO-520-F<br>285 HP @ 2700 RPM | PHC-C3YF-1RF<br>F7691            | 78.0" TO 77.0"        | A-2295-1P             | 1114                 |
| <b>CESSNA</b><br>207, 207A SKYWAGON,STATIONAIR 7                 | STC-SA696AL<br>HARTZELL PROPELLER        | CONTINENTAL IO-520-F<br>300 HP @ 2850 RPM | HC-C3YF-1RF<br>F8468A-8R         | 78.0" TO 77.0"        | A-2295-1P             | 1129                 |
| <b>CESSNA</b><br>207, 207A SKYWAGON                              | STC-SA00636AT<br>DAVIS AVIATION SERVICES | CONTINENTAL IO-520-F<br>285 HP @ 2700 RPM | PHC-C3YF-1RF<br>F8468A-6R        | 80.0" TO 77.0"        | A-2295-1P             | 1131                 |
| <b>CESSNA</b><br>207, 207A SKYWAGON                              | STC-SA00636AT<br>DAVIS AVIATION SERVICES | CONTINENTAL IO-520-F<br>285 HP @ 2700 RPM | PHC-J3YF-1RF<br>F7691            | 78.0" TO 77.0"        | C-4582-P              | 1118                 |

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|---|--|---|----------------------------------|-----------------------|-----------------------|----------------------|
| <b>CESSNA</b><br>207, 207A SKYWAGON                   | STC-SA00636AT<br>DAVIS AVIATION SERVICES | CONTINENTAL IO-520-F<br>285 HP @ 2700 RPM       | PHC-J3YF-1RF<br>F8468A-6R        | 80.0" TO 77.0"        | C-4582-P              | 1139                 |
| <b>CESSNA</b><br>207, 207A SKYWAGON, STATIONAIR 7     | SA10011SC<br>TEXAS SKYWAYS               | CONTINENTAL IO-550-F<br>300 HP @ 2700 RPM       | PHC-C3YF-1RF<br>F8068            | 82"                   | D-5732-P              | 2442                 |
| <b>CESSNA</b><br>207, 207A SKYWAGON, STATIONAIR 7     | SA10011SC<br>TEXAS SKYWAYS               | CONTINENTAL IO-550-F<br>300 HP @ 2700 RPM       | PHC-J3YF-1RF<br>F8068-2          | 80"                   | D-5732-P              | 2443                 |
| <b>CESSNA</b><br>207, 207A SKYWAGON, STATIONAIR 7     | SA10011SC<br>TEXAS SKYWAYS               | CONTINENTAL IO-550-F<br>300 HP @ 2700 RPM       | PHC-J3YF-1RF<br>F8068            | 82"                   | D-5732-P              | 2444                 |
| <b>CESSNA</b><br>207, 207A, T207, T207A SUPER SKYLANE | STC-SA3322NM<br>SOLOY                    | ALLISON 250-C20S<br>418 HP @ 1800 RPM           | HC-C3YN-5A<br>FC9587D-2          | 95"                   | D-1649                | 1526                 |
| <b>CESSNA</b><br>T207A SKYWAGON                       | SA696AL<br>HARTZELL PROPELLER            | CONTINENTAL TSIO-520-M<br>310 HP @ 2700 RPM     | PHC-C3YF-1RF<br>F8468A-6R        | 80.0" TO 78.0"        | A-2295-1<br>A-2295-1P | 2513                 |
| <b>CESSNA</b><br>T207, T207A                          | STC-SA696AL<br>HARTZELL PROPELLER        | CONTINENTAL TSIO-520-G, -M<br>310 HP @ 2700 RPM | PHC-C3YF-1RF<br>F8468A-6R        | 80.0" TO 78.0"        | A-2295-1P             | 1351                 |
| <b>CESSNA</b><br>207, 207A, T207, T207A SKYWAGON      | STC-SA00173AT<br>DAVIS AVIATION SERVICES | CONTINENTAL IO-550-F<br>300 HP @ 2700 RPM       | PHC-C3YF-1RF<br>F8468A-6R        | 80.0" TO 77.0"        | A-2295-1P             | 1130                 |
| <b>CESSNA</b><br>207, 207A, T207, T207A SKYWAGON      | STC-SA00173AT<br>DAVIS AVIATION SERVICES | CONTINENTAL IO-550-F<br>300 HP @ 2700 RPM       | PHC-C3YF-1RF<br>F7691            | 78.0" TO 77.0"        | A-2295-1P             | 1115                 |
| <b>CESSNA</b><br>207, 207A, T207, T207A SKYWAGON      | STC-SA00173AT<br>DAVIS AVIATION SERVICES | CONTINENTAL IO-550-F<br>300 HP @ 2700 RPM       | PHC-J3YF-1RF<br>F8468A-6R        | 80.0" TO 77.0"        | C-4582<br>C-4582-P    | 1138                 |
| <b>CESSNA</b><br>207, 207A, T207, T207A SKYWAGON      | STC-SA00173AT<br>DAVIS AVIATION SERVICES | CONTINENTAL IO-550-F<br>300 HP @ 2700 RPM       | PHC-J3YF-1RF<br>F7691            | 78.0" TO 77.0"        | C-4582-P              | 1119                 |



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|--|---|---|---|-----------------------|-----------------------|----------------------|
| <b>CESSNA</b><br>T207, T207A             | Unknown<br>MT PROPELLER                   | CONTINENTAL TSIO-520<br>310 HP @ 2700 RPM                       | PHC-C3YF-1RF<br>F7663-2Q<br>F7663D-2Q         | 76.0" NO CUT OFF      |                       | <b>1142</b>          |
| <b>CESSNA</b><br>208, 208B Caravan       | SA02291AK<br>Aero Twin                    | HONEYWELL TPE-331-12JR<br>950 HP @ 1591 RPM                     | HC-B4TN-5QL<br>LT10891N                       | 109.5" to 107.5"      | D-3434-7P<br>D-3434-7 | <b>3107</b>          |
| <b>CESSNA</b><br>208B Caravan            | SA02357LA<br>Blackhawk Modifications Inc. | Pratt & Whitney PT6A-42A<br>850 HP @ 2000 RPM                   | HC-B3TN-3AE(Y)<br>T10290N+2*1<br>T10290NK+2*1 | 104"                  | 105298P               | <b>3140</b>          |
| <b>CESSNA</b><br>208, 208A CARAVAN       | STC SA02291AK<br>Aero Twin                | HONEYWELL TPE-331-12JR<br>850 HP @ 1591 RPM                     | HC-B4TN-5QL<br>LT10890N                       | 109.5" TO 107.5"      | D-3434-7P<br>D-3434-7 | <b>1838</b>          |
| <b>CESSNA</b><br>208, 208A, 208B CARAVAN | A37CE                                     | PRATT & WHITNEY PT6A-114,-114A<br>600 HP @ 1900 RPM             | HC-B3MN-3<br>M10083                           | 100" NO CUT OFF       | D-4897-P<br>D-4897    | <b>402</b>           |
| <b>CESSNA</b><br>208, 208A, 208B CARAVAN | STC-SA02181AK<br>HARTZELL PROPELLER       | PRATT & WHITNEY PT6A-114,-114A<br>675 HP @ 1900 RPM             | HC-B3TN-3AF<br>T10890CN-2<br>T10890CN-2*1     | 106" TO 104"          | D-4897<br>D-4897-P    | <b>1696</b>          |
| <b>CESSNA</b><br>208, 208A, 208B CARAVAN | STC ST01472SE<br>KENMORE AIR HARBOR       | PRATT & WHITNEY PT6A-114, 114A<br>675 HP @ 1900 RPM             | HC-B3TN-3AEY<br>T10290N+2*1<br>T10290NK+2     | 104"                  | D-4897-P              | <b>1986</b>          |
| <b>CESSNA</b><br>208, 208A, 208B CARAVAN | STC-SA8954SW<br>Kendrick Brooks Davis     | PRATT & WHITNEY PT6A-114 (PT6A-114A, 208B)<br>675 HP @ 1900 RPM | HC-B3TN-3Z<br>T10282N+4<br>T10282NK+4         | 106.0" NO CUT OFF     | D-4897-P              | <b>1204</b>          |

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|--|---|---|---|-----------------------|---------------------------------|----------------------|
| <b>CESSNA</b><br>208, 208A, 208B CARAVAN                       | SA02092AK<br>HARTZELL PROPELLER                       | PRATT & WHITNEY PT6A-114, -114A<br>675 HP @ 1900 RPM                        | HC-D4N-3R<br>D9511F<br>D9511F*2<br>D9511FK*2<br>D9511FK*5 | 96.0" TO 95.0" MIN    | D-630-3P                        | 1374                 |
| <b>CESSNA</b><br>208, 208A, 208B CARAVAN                       | SA02181AK<br>HARTZELL PROPELLER                       | PRATT & WHITNEY PT6A-114,-114A<br>675 HP @ 1900 RPM                         | HC-B3TN-3AFY<br>T10890CN-2                                | 106" TO 104"          | D-4897<br>D-4897-P              | 1914                 |
| <b>CESSNA</b><br>208, 208B Caravan                             | SA02357LA / SA02476LA<br>Blackhawk Modifications Inc. | Pratt & Whitney PT6A-42A<br>850 HP @ 2000 RPM                               | HC-E4N-3P<br>D9900  | 100"                  | D-630-3<br>D-630-3P             | 2924                 |
| <b>CESSNA</b><br>208B Caravan                                  | A37CE   | Pratt & Whitney PT6A-140<br>867 HP @ 1900 RPM                               | HC-B3TN-3AF<br>T10890CN-2<br>T10890CNB-2                  | 106" to 104"          | D-4897-1P<br>D-4897-P<br>D-4897 | 3175                 |
| <b>CESSNA</b><br>208B SuperVan 900                             | STC SA10841SC<br>TEXAS TURBINES                       | HONEYWELL TPE-331-12JR<br>900 HP @ 1591 RPM                                 | HC-B4TN-5QL<br>LT10890NK                                  | 109.5" TO 107.5"      | D-3434-7P<br>D-3434-7           | 2504                 |
| <b>CESSNA</b><br>208B SuperVan 900                             | SA10841SC<br>Texas Turbines                           | HONEYWELL TPE-331-12JR<br>900 HP @ 1591 RPM                                 | HC-B4TN-5(N,Q)L<br>LT10891N                               | 109.5" to 107.5"      | D-3434-7P<br>D-3434-7           | 3093                 |
| <b>CESSNA</b><br>210E thru 210J, T210F thru T210L<br>Centurion | SA02735CH<br>Vitatoe Aviation LLC                     | Continental TSIO-520-C, IO-520-A, IO-520-J, TSIO-520-H<br>285 HP @ 2700 RPM | HC-J3YF-1RF<br>F8068*4<br>F8068B*2                        | 82" - 78"             | C-4582-1<br>C-4582-1P           | 2945                 |
| <b>CESSNA</b><br>210E thru 210J, T210F thru T210L<br>Centurion | SA02821CH<br>Hartzell Propeller                       | Continental TSIO-520-C, IO-520-A, IO-520-J, TSIO-520-H<br>285 HP @ 2700 RPM | HC-J3YF-1RF<br>F8068*4<br>F8068B*2                        | 82" - 78"             | C-4582-1<br>C-4582-1P           | 3008                 |

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|--|--|--|---|-----------------------|---|----------------------|
| <b>CESSNA</b><br>T210M, T210N, & P210N Centurion,<br>Pressurized Centurion | SA02735CH<br>Vitatoe Aviation LLC      | CONTINENTAL TSIO-520-R, -P, -AF<br>310 HP @ 2700 RPM | HC-J3YF-1RF<br>F8068*4  | 82"-78"               | C-4582-1P<br>C-4582-1                       | <b>2943</b>          |
| <b>CESSNA</b><br>T210M, T210N, & P210N Centurion,<br>Pressurized Centurion | SA02821CH<br>Hartzell Propeller        | CONTINENTAL TSIO-520-R, -P, -AF<br>310 HP @ 2700 RPM | HC-J3YF-1RF<br>F8068*4  | 82"-78"               | C-4582-1P<br>C-4582-1                       | <b>3007</b>          |
| <b>CESSNA</b><br>( )210( ) Centurion, Turbo Centurion                      | SA02735CH<br>Vitatoe Aviation LLC      | CONTINENTAL IO-550-L<br>300 HP @ 2700 RPM            | HC-J3YF-1RF<br>F8068*4<br>F8068B*2                                      | 82.0" TO 78.0"        | D-5732<br>D-5732-P<br>C-4582-1P<br>C-4582-1 | <b>2947</b>          |
| <b>CESSNA</b><br>( )210( ) Centurion, Turbo Centurion                      | SA02821CH<br>Hartzell Propeller        | CONTINENTAL IO-550-L<br>300 HP @ 2700 RPM            | HC-J3YF-1RF<br>F8068*4<br>F8068B*2                                      | 82.0" TO 78.0"        | D-5732<br>D-5732-P<br>C-4582-1P<br>C-4582-1 | <b>3010</b>          |
| <b>CESSNA</b><br>210, A, B, C, 5, 5A CENTURION                             | 3A21                                   | CONTINENTAL IO-470-E, -S<br>260 HP @ 2625 RPM        | HC-82XF-1, HCA2XF-1, HC-82XF-1A,<br>HC-A2XF-1A<br>8433-2                | 82.3" TO 80"          | 835-13                                      | <b>2154</b>          |
| <b>CESSNA</b><br>210, A, B, C, 5, 5A CENTURION                             | 3A21                                   | CONTINENTAL IO-470-E, -S<br>260 HP @ 2625 RPM        | HC-82VF-1, HC-A2VF-1, HC-82VF-<br>1A, HC-A2VF-1A<br>V8433-2<br>V8433N-2 | 82.3" TO 80"          | 835-13                                      | <b>2156</b>          |
| <b>CESSNA</b><br>210, A, B, C, 5, 5A CENTURION                             | 3A21                                   | CONTINENTAL IO-470-E, -S<br>260 HP @ 2625 RPM        | HC-A2MVF-1A<br>MV8433N-2  | 82.3" TO 80"          | 835-13                                      | <b>403</b>           |
| <b>CESSNA</b><br>210, A,B,C,-5,-5A CENTURION                               | SA02246CH-D<br>HARTZELL PROPELLER      | CONTINENTAL IO-470-E,-S<br>260 HP @ 2625 RPM         | HC-C2YF-1BF<br>F8468A-2*1   | 82" TO 80"            | C-3568<br>C-3568-P                          | <b>2525</b>          |
| <b>CESSNA</b><br>210D CENTURION  | SA09952SC<br>TEXAS SKYWAYS             | CONTINENTAL IO-550-F<br>300 HP @ 2700 RPM            | PHC-C3YF-1RF<br>F8068-2   | 80"                   | D-5732-P                                    | <b>2431</b>          |

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|--|---|---|----------------------------------|-----------------------|--------------------|----------------------|
| <b>CESSNA</b><br>210-D CENTURION                           | SA09952SC<br>TEXAS SKYWAYS              | CONTINENTAL IO-550-F<br>300 HP @ 2700 RPM                     | PHC-C3YF-1RF<br>F8068            | 82"                   | D-5732-P           | 2434                 |
| <b>CESSNA</b><br>210E,F,G,H CENTURION                      | SA09952SC<br>TEXAS SKYWAYS              | CONTINENTAL IO-550-F<br>300 HP @ 2700 RPM                     | PHC-J3YF-1RF<br>F8068            | 82"                   | D-5732-P           | 2435                 |
| <b>CESSNA</b><br>210E,F,G,H CENTURION                      | SA09952SC<br>TEXAS SKYWAYS              | CONTINENTAL IO-550-F<br>300 HP @ 2700 RPM                     | PHC-J3YF-1RF<br>F8068-2          | 80"                   | D-5732-P           | 2432                 |
| <b>CESSNA</b><br>210F-J CENTURION                          | SA02319CH-D<br>HARTZELL PROPELLER       | CONTINENTAL IO-520-A, -J<br>285 HP @ 2700 RPM                 | HC-J3YF-1RF<br>F7691+2           | 80-78"                | C-4582<br>C-4582-P | 2576                 |
| <b>CESSNA</b><br>210-J,K,L,M,N,R CENTURION                 | SA09952SC<br>TEXAS SKYWAYS              | CONTINENTAL IO-550-F<br>300 HP @ 2700 RPM                     | PHC-J3YF-1RF<br>F8068-2          | 80"                   | D-5732-P           | 2437                 |
| <b>CESSNA</b><br>210-J,K,L,M,N,R CENTURION                 | SA09952SC<br>TEXAS SKYWAYS              | CONTINENTAL IO-550-F<br>300 HP @ 2700 RPM                     | PHC-J3YF-1RF<br>F8068            | 82"                   | D-5732-P           | 2436                 |
| <b>CESSNA</b><br>210(F,G,H,J), T210(F,G,H,J,K,L) CENTURION | STC-SA00773AT<br>HARTZELL PROPELLER     | CONTINENTAL IO-520-(A,J), TSIO-520-(C,H)<br>285 HP @ 2700 RPM | PHC-J3YF-1RF<br>F7691<br>F7691*1 | 78.0" TO 77.0"        | C-4582-P           | 3314                 |
| <b>CESSNA</b><br>210(K,L,M,N) CENTURION                    | STC-SA00773AT<br>HARTZELL PROPELLER     | CONTINENTAL IO-520-L<br>300 HP @ 2850 RPM                     | PHC-J3YF-1RF<br>F7691<br>F7691*1 | 78.0" TO 77.0"        | C-4582-P           | 1174                 |
| <b>CESSNA</b><br>210(K-N) CENTURION                        | STC-SA00553AT<br>JOHN JEWELL AVIATION   | CONTINENTAL IO-520-L<br>285 HP @ 2700 RPM                     | PHC-J3YF-1RF<br>F7691            | 78.0" TO 77.0"        | C-4582-P           | 1117                 |
| <b>CESSNA</b><br>210(K-N) CENTURION                        | STC-SA00553AT<br>JOHN JEWELL AVIATION   | CONTINENTAL IO-520-L<br>285 HP @ 2700 RPM                     | PHC-J3YF-1RF<br>F8468A-6R        | 80.0" TO 77.0"        | C-4582<br>C-4582-P | 1141                 |
| <b>CESSNA</b><br>210(K-N) CENTURION                        | SA00274AT<br>JOHN JEWELL AIRCRAFT, INC. | CONTINENTAL IO-550-L<br>300 HP @ 2700 RPM                     | PHC-J3YF-1RF<br>F7691            | 78.0" TO 77.0"        | C-4582-P           | 1123                 |

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|--|---|---|---|-----------------------|---|----------------------|
| <b>CESSNA</b><br>210(K-N) CENTURION  | SA00553AT<br>JOHN JEWELL AIRCRAFT, INC. | CONTINENTAL IO-520-L<br>300 HP @ 2700 RPM                             | PHC-J3YF-1RF<br>F7691                               | 78.0" TO 77.0"        | C-4582-P                                    | 1879                 |
| <b>CESSNA</b><br>P210N CENTURION   | STC-SA2568NM<br>JAVELIN CONVERSIONS     | LYCOMING TIO-540-V2AD<br>350 HP @ 2600 RPM                            | HC-F4YR-1<br>F7663DB-6Q                             | 73.75"                | D-4511-1P                                   | 404                  |
| <b>CESSNA</b><br>P210N PRESSURIZED CENTURION   | STC-SA1003NE<br>O&N AIRCRAFT MOD. INC.  | ALLISON 250-B17F<br>450 HP @ 2030 RPM                                 | HC-B3TF-7A<br>T9212K-2*1<br>T9212N-2<br>T9212NK-2*1 | 90.0" TO 88.0"        | 835-39EP                                    | 407                  |
| <b>CESSNA</b><br>T210F-L TURBO CENTURION   | SA02319CH-D<br>HARTZELL PROPELLER       | CONTINENTAL TSIO-520-C, -H<br>285 HP @ 2700 RPM                       | HC-J3YF-1RF<br>F7691+2                              | 80-78"                | C-4582-P<br>C-4582                          | 2552                 |
| <b>CESSNA</b><br>T210 TURBO CENTURION  | STC-SA2689SW<br>RAM AIRCRAFT CORP.      | CONTINENTAL TSIO-520-R,-C,-H,-M,-P<br>(2600/285)<br>310 HP @ 2700 RPM | PHC-J3YF-1RF<br>F7663-2Q                            | 76" NO CUT OFF        | C-4582                                      | 405                  |
| <b>CESSNA</b><br>TU206(A-F), TP206(A-E), T210(F-K)<br>SUPER SKYWAGON, TURBO<br>CENTURION | SA10615SC<br>RAM AIRCRAFT CORP.         | CONTINENTAL TSIO-520-R<br>310 HP @ 2700 RPM                           | PHC-J3YF-1RF<br>F7693F+2                            | 80-78                 | C-4582-1P<br>C-4582-1                       | 2553                 |
| <b>CESSNA</b><br>210(K,L,M,N); T210(K,L,M,N)<br>CENTURION                                | STC-SA02029AT-D<br>ATLANTIC AERO        | CONTINENTAL IO-550-P<br>310 HP @ 2700 RPM                             | PHC-J3YF-1RF<br>F7691                               | 78" TO 77"            | C-4582<br>A-2295-1P<br>A-2295-1<br>C-4582-P | 1760                 |
| <b>CESSNA</b><br>210(K,L,M,N); T210(K,L,M,N)<br>CENTURION                                | STC-SA3104SO<br>AERO MOD.&              | CONTINENTAL IO-550L<br>300 HP @ 2700 RPM                              | PHC-J3YF-1RF<br>F7691                               | 78"                   | C-4582-P                                    | 1264                 |
| <b>CESSNA</b><br>T210(M,N) TURBO CENTURION   | STC-SA4111SW<br>RAM AIRCRAFT CORP.      | CONTINENTAL TSIO-520-M, -R<br>310 HP @ 2700 RPM                       | PHC-J3YF-1RF<br>F7663-2Q<br>F7663D-2Q               | 76"                   | C-4582                                      | 406                  |

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| <b>CESSNA</b><br>305A O-1A Bird Dog        | SA1201SW<br>Stephen Noyes              | LYCOMING O-540-A4B5<br>250 HP @ 2575 RPM   | HC-C3YR-1RF<br>F8468A-6R  | 80" to 76"            | 835-52<br>835-52P                              | <b>2768</b>          |
| <b>CESSNA</b><br>310                       | Experimental<br>RILEY AIRCRAFT         | LYCOMING IO-540-A1B5, -B1A5, -B1B5<br>260 HP @ 2575 RPM                                | HC-83VK-2B, HC-A3VK-2B<br>V7636DB<br>V7636NB  | 76" MIN.              | C-2513-2P                                      | <b>2163</b>          |
| <b>CESSNA</b><br>310( )                    | STC-SA234CH<br>HARTZELL PROPELLER      | CONTINENTAL IO-470-U, -V, -VO<br>260 HP @ 2625 RPM                                     | PHC-J3YF-2UF<br>FC7663D-2R<br>FC7663D-2R*1<br>FC7663DB-2R   | 76.0" TO 75.0"        | C-4558-2P<br>C-4558-3P                         | <b>1144</b>          |
| <b>CESSNA</b><br>310(I,P,Q,R); T310(P,Q,R) | STC-SA234CH<br>HARTZELL PROPELLER      | CONTINENTAL IO-470-U, -VO; IO-520-M(B) [TSIO-520-B(B), T310(P-R)]<br>260 HP @ 2625 RPM | PHC-C3YF-2UF<br>FC7663D-2R<br>FC7663DB-2R   | 76.0" TO 75.0"        | C-4558-3<br>C-4558-2<br>C-4558-2P<br>C-4558-3P | <b>1143</b>          |
| <b>CESSNA</b><br>310, 310A, 310B           | 3A10                                   | CONTINENTAL O-470-B, -M<br>240 HP @ 2600 RPM   | HC-82XF-2, HC-A2XF-2<br>8433<br>8433-2<br>8433-4  | 84.2" TO 78"          | 835-13   | <b>2155</b>          |
| <b>CESSNA</b><br>310, 310A, 310B           | 3A10                                   | CONTINENTAL O-470-B, -M<br>240 HP @ 2600 RPM   | HC-82VF-2, HC-A2VF-2<br>V8433<br>V8433-2<br>V8433-2R<br>V8433-4<br>V8433-4R<br>V8433N<br>V8433N-2<br>V8433N-2R<br>V8433N-4<br>V8433N-4R | 84.2" TO 78"          | 835-13   | <b>2157</b>          |

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|--------------------------------------|--|--|---|-----------------------|-----------------------|----------------------|
| <b>CESSNA</b><br>310, 310A, 310B     | 3A10                                   | CONTINENTAL O-470-B, -M<br>240 HP @ 2600 RPM | HC-A2MVF-2<br>MV8433N<br>MV8433N-2<br>MV8433N-2R<br>MV8433N-4<br>MV8433N-4R | 84.2" TO 78"          | 835-13                | 411                  |
| <b>CESSNA</b><br>310, 310A, 310B     | STC-SA00799CH<br>HARTZELL PROPELLER    | CONTINENTAL O-470-M<br>240 HP @ 2600 RPM     | HC-C2YF-2CUF<br>FC8468-3<br>FC8468-3*1<br>FC8468B-3                         | 81.0" TO 80.0"        | C-2285-4<br>C-2285-4P | 1389                 |
| <b>CESSNA</b><br>310, 310(B,C,D,E,F) | STC-SA212SO<br>RILEY AIRCRAFT          | LYCOMING IO-540-A1A5<br>290 HP @ 2575 RPM    | HC-A3XK-2B<br>7636D   | 76"                   | C-2513-2P             | 2372                 |
| <b>CESSNA</b><br>310, 310(B,C,D,E,F) | STC-SA212SO<br>RILEY AIRCRAFT          | LYCOMING IO-540-A1A5<br>290 HP @ 2575 RPM    | HC-A3VK-2B<br>V7636DB   | 76"                   | C-2513-2P             | 2373                 |
| <b>CESSNA</b><br>310, 310B, 310G     | STC-SA212SO<br>RILEY AIRCRAFT          | LYCOMING IO-540-A1A5<br>290 HP @ 2575 RPM    | HC-A3XK-2B<br>7636D   | 76.6"                 | C-2513-2P             | 2160                 |
| <b>CESSNA</b><br>310, 310B, 310G     | STC-SA212SO<br>RILEY AIRCRAFT          | LYCOMING IO-540-A1A5<br>290 HP @ 2575 RPM    | HC-A3VK-2B<br>V7636<br>V7636DB<br>V7636N<br>V7636NB                         | 76.6"                 | C-2513-2P             | 2161                 |
| <b>CESSNA</b><br>310, 310B, 310G     | STC-SA212SO<br>RILEY AIRCRAFT          | LYCOMING IO-540-A1A5<br>290 HP @ 2575 RPM    | HC-A3MVK-2B<br>MV7636N<br>MV7636NB  | 76.6"                 | C-2513-2P             | 414                  |
| <b>CESSNA</b><br>310(C-H), E310H     | 3A10                                   | CONTINENTAL IO-470-D<br>260 HP @ 2625 RPM    | HC-A2XF-2B<br>8433  | 84.2" TO 78"          | 835-13                | 2370                 |

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| <b>CESSNA</b><br>310C, D, E, F, G, H, E310H | 3A10                                   | CONTINENTAL IO-470-D<br>260 HP @ 2625 RPM              | HC-82XF-2B, HC-A2XF-2B<br>8433                      | 84.2" TO 78"          | 835-13                | 2158                 |
| <b>CESSNA</b><br>310(C-H), E310H            | 3A10                                   | CONTINENTAL IO-470-D<br>260 HP @ 2625 RPM              | HC-A2VF-2B<br>V8433                                 | 84.2" TO 78"          | 835-13                | 2371                 |
| <b>CESSNA</b><br>310C, D, E, F, G, H, E310H | 3A10                                   | CONTINENTAL IO-470-D<br>260 HP @ 2625 RPM              | HC-82VF-2B, HC-A2VF-2B<br>V8433<br>V8433N           | 84.2" TO 78"          | 835-13                | 2159                 |
| <b>CESSNA</b><br>310C, D, E, F, G, H, E310H | 3A10                                   | CONTINENTAL IO-470-D<br>260 HP @ 2625 RPM              | HC-A2MVf-2<br>MV8433N                               | 84.2" TO 78"          | 835-13                | 412                  |
| <b>CESSNA</b><br>310(C,D,E,F,G,H), E310H    | STC-SA00799CH<br>HARTZELL PROPELLER    | CONTINENTAL IO-470-D<br>260 HP @ 2625 RPM              | HC-C2YF-2CUF<br>FC8468-3<br>FC8468-3*1<br>FC8468B-3 | 81.0" TO 80.0"        | C-2285-4<br>C-2285-4P | 1390                 |
| <b>CESSNA</b><br>310L, 310N, 310P, 310Q     | STC-SA2082WE<br>O. S. WYATT, JR.       | LYCOMING TIO-540-A2B<br>310 HP @ 2575 RPM              | HC-E3YR-2ATF<br>FC8468-6R                           | 80"                   | D-3273                | 413                  |
| <b>CESSNA</b><br>T310 P, Q, R               | STC SA09971SC<br>RAM AIRCRAFT          | CONTINENTAL TSIO-520-(B, E, N)(B)<br>325 HP @ 2700 RPM | PHC-C3YF-2UF<br>FC7693DF<br>FC7693DFB               | 78" to 76"            | D-7267-2P             | 1942                 |
| <b>CESSNA</b><br>T310P,Q,R                  | STC-SA4011SW<br>RAM AIRCRAFT CORP.     | CONTINENTAL TSIO-520-NB<br>325 HP @ 2700 RPM           | PHC-C3YF-2UF<br>FC7663D-2Q<br>FC7663DB-2Q*1         | 76"                   |                       | 415                  |
| <b>CESSNA</b><br>320, 320-1 SKYKNIGHT       | STC-SA285SO<br>RILEY AIRCRAFT          | LYCOMING IO-540-A1A5<br>290 HP @ 2575 RPM              | HC-83XK-2B, HC-A3XK-2B<br>7636D                     | 76.6"                 | C-2513-2              | 2166                 |
| <b>CESSNA</b><br>320, 320-1 SKYKNIGHT       | STC-SA285SO<br>RILEY AIRCRAFT          | LYCOMING IO-540-A1A5<br>290 HP @ 2575 RPM              | HC-A3VK-2B<br>V7636<br>V7636N                       | 76.6"                 | C-2513-2              | 2314                 |



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|--|--|--|--|-----------------------|-----------------|----------------------|
| <b>CESSNA</b><br>320, 320-1 SKYKNIGHT                          | STC-SA285SO<br>RILEY AIRCRAFT          | LYCOMING IO-540-A1A5<br>290 HP @ 2575 RPM                | HC-A3MVK-2B<br>MV7636N   | 76.6"                 | C-2513-2        | 423                  |
| <b>CESSNA</b><br>320, 320-1, 320A, 320B SKYKNIGHT              | 3A25                                   | CONTINENTAL TSIO-470-B, -C<br>260 HP @ 2600 RPM          | HC-82XF-2, HC-A2XF-2<br>8433-4                                     | 80.3" TO 78"          |                 | 2164                 |
| <b>CESSNA</b><br>320, 320-1, 320A, 320B SKYKNIGHT              | 3A25                                   | CONTINENTAL TSIO-470-B, -C<br>260 HP @ 2600 RPM          | HC-82VF-2, HC-A2VF-2<br>V8433-4<br>V8433B-4<br>V8433N-4            | 80.3" TO 78"          |                 | 2165                 |
| <b>CESSNA</b><br>320, 320-1, 320A, 320B SKYKNIGHT              | 3A25                                   | CONTINENTAL TSIO-470-B, -C<br>260 HP @ 2600 RPM          | HC-A2MVF-2<br>MV8433N-4<br>MV8433N-4*1<br>MV8433NB-4               | 80.3" TO 78"          |                 | 420                  |
| <b>CESSNA</b><br>320C SKYKNIGHT                                | STC-SA2122WE<br>O. S. WYATT, JR.       | LYCOMING TIO-540-J, -N2BD; LTIO-540<br>310 HP @ 2575 RPM | HC-E3YR-2ATF<br>FC8468-6R<br>FC8468-8R<br>FJC8468-6R<br>FJC8468-8R | 78", 80"              | C-3567-1        | 421                  |
| <b>CESSNA</b><br>320 (D, E, F)                                 | STC SA09971SC<br>RAM AIRCRAFT          | CONTINENTAL TSIO-520-(B, E, N)(B)<br>325 HP @ 2700 RPM   | PHC-C3YF-2UF<br>FC7693DF<br>FC7693DFB                              | 78" to 76"            | D-7267-2P       | 1943                 |
| <b>CESSNA</b><br>320E, 320V SKYKNIGHT                          | STC-SA2122WE<br>O. S. WYATT, JR.       | LYCOMING TIO-540-A2B<br>310 HP @ 2575 RPM                | HC-E3YR-2ATF<br>FC8468-6R  | 80" TO 76"            | D-3273          | 422                  |
| <b>CESSNA</b><br>P337H, T337G (front) PRESSURIZED<br>SKYMASTER | SA00080LA<br>SUPER SKYROCKET           | CONTINENTAL TSIO-520-NB<br>300 HP @ 2600 RPM             | PHC-G3YF-2UF<br>FC7663DB-2R  | 76.0" TO 75.0"        | C-4558-3P       | 424                  |
| <b>CESSNA</b><br>P337H, T337G (rear) PRESSURIZED<br>SKYMASTER  | SA00080LA<br>SUPER SKYROCKET           | CONTINENTAL TSIO-520-NB<br>300 HP @ 2600 RPM             | PHC-I3YF-2AL<br>FLC7663DF-2R                                       | 76.0" TO 75.0"        | C-4558-2P       | 425                  |

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|--|---|---|--|-----------------------|---------------------|----------------------|
| <b>CESSNA</b><br>340 (left side)       | STC-SA3923WE<br>O. S. WYATT, JR.        | LYCOMING TIO-540-R2AD<br>350 HP @ 2575 RPM              | HC-E3YR-2ATF<br>FC8468B-8R               | 78.0"                 |                     | 1267                 |
| <b>CESSNA</b><br>340 (right side)      | STC-SA3923WE<br>O. S. WYATT, JR.        | LYCOMING LTIO-540-R2AD<br>350 HP @ 2575 RPM             | HC-E3YR-2ALTF<br>FJC8468B-8R             | 78.0"                 |                     | 1268                 |
| <b>CESSNA</b><br>340                   | STC-SA2346SW<br>RAM AIRCRAFT CORP.      | CONTINENTAL TSIO-520-NB<br>310 HP @ 2700 RPM            | PHC-C3YF-2UF<br>FC7663D-2Q<br>FC7663D-2R | 76"                   | C-4558-2P           | 426                  |
| <b>CESSNA</b><br>340(A)                | SA09971SC<br>RAM AIRCRAFT               | CONTINENTAL TSIO-520-J, K(B), N(B)<br>335 HP @ 2700 RPM | PHC-C3YF-2UF<br>FC7693DF<br>FC7693DFB    | 78" to 76"            | D-7267-2P           | 1724                 |
| <b>CESSNA</b><br>340A                  | STC-SA4241SW<br>RAM AIRCRAFT CORP.      | CONTINENTAL TSIO-520-NB<br>310 HP @ 2700 RPM            | PHC-C3YF-2UF<br>FC7663D-2Q<br>FC7663D-2R | 76"                   | C-4558-2P           | 427                  |
| <b>CESSNA</b><br>340, 340A             | SA03118NY<br>O&N                        | ROLLS ROYCE/ALLISON 250-B17F<br>400 HP @ 2030 RPM       | HC-B3TF-7A<br>T9212DNK-7                 | 85"                   | 835-39E<br>835-39EP | 2884                 |
| <b>CESSNA</b><br>LC42-550FG CESSNA 350 | Experimental<br>HARTZELL PROPELLER INC. | CONTINENTAL IO-550-N<br>310 HP @ 2700 RPM               | PHC-J3YF-1RF<br>F7391                    | 75                    | C-6446-1P           | 2592                 |
| <b>CESSNA</b><br>LC42-550FG CESSNA 350 | Experimental<br>HARTZELL PROPELLER INC. | CONTINENTAL IO-550-N<br>310 HP @ 2700 RPM               | PHC-J3YF-1RF<br>F7693DF-2*1              | 76                    | C-6446-1P           | 2593                 |
| <b>CESSNA</b><br>402 BUSINESSLINER     | STC-SA2424WE<br>AMERICAN JET            | ALLISON 250-B17<br>400 HP @ 2030 RPM                    | HC-B3TF-7<br>T10173-11<br>T10173N-11     | 89.6"                 | A-3640              | 429                  |
| <b>CESSNA</b><br>402C                  | STC SA09971SC<br>RAM AIRCRAFT           | CONTINENTAL TSIO-520-VB<br>325 HP @ 2700 RPM            | PHC-C3YF-2UF<br>FC7693DF<br>FC7693DFB    | 78" to 76"            | D-7267-2P           | 1944                 |

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| <b>CESSNA</b><br>411                    | A7CE                                      | CONTINENTAL GTSIO-520-C<br>340 HP @ 2400 RPM        | HC-83VF-2D, HC-A3VF-2D<br>V8833  | 88.6" TO 86.4"        | 835-20<br>835-29 | <b>2167</b>          |
| <b>CESSNA</b><br>411                    | A7CE                                      | CONTINENTAL GTSIO-520-C<br>340 HP @ 2400 RPM        | HC-A3MVF-2D<br>MV8833N   | 88.6" TO 86.4"        | 835-20<br>835-29 | <b>431</b>           |
| <b>CESSNA</b><br>414                    | STC-SA2680SW<br>O.S. WYATT                | LYCOMING IO-720-B1BD<br>400 HP @ 2650 RPM           | HC-F4YR-2<br>FC7663DB-4R<br>FC7663DB-6Q                                | 74.5"                 | D-4515           | <b>432</b>           |
| <b>CESSNA</b><br>414(A)                 | STC SA09971SC<br>RAM AIRCRAFT             | CONTINENTAL TSIO-520-(J, N)(B)<br>335 HP @ 2700 RPM | PHC-C3YF-2UF<br>FC7693DF<br>FC7693DFB                                  | 78                    | D-7267-2P        | <b>1945</b>          |
| <b>CESSNA</b><br>414A                   | STC-SA4546SW<br>RAM AIRCRAFT CORP.        | CONTINENTAL TSIO-520-NB<br>325 HP @ 2700 RPM        | PHC-C3YF-2UF<br>FC7663D-2Q<br>FC7663DB-2Q                              | 76"                   | C-4558-2P        | <b>433</b>           |
| <b>CESSNA</b><br>421, 421A GOLDEN EAGLE | STC-SA673CE<br>HARTZELL PROPELLER         | CONTINENTAL GTSIO-520-D<br>375 HP @ 2267 RPM        | HC-B3WF-2<br>W9349N-3R   | 90.4" TO 88"          | 835-29           | <b>435</b>           |
| <b>CESSNA</b><br>421B, 421C             | STC-SA4293WE<br>TURBINE CONVERSIONS, INT. | LYCOMING LTP-101-600A<br>600 HP @ 1920 RPM          | HC-B3TN-3C<br>T10173-13Q<br>T10173E-13Q<br>T10173N-13Q<br>T10173NE-13Q | 88"                   | C-3065-6P        | <b>437</b>           |
| <b>CESSNA</b><br>421C GOLDEN EAGLE      | SA1361SO<br>RILEY                         | P&WC PT6A-135<br>475 HP @ 1900 RPM                  | HC-B3TN-3C<br>T10173NB-13Q   | 88                    |                  | <b>1947</b>          |
| <b>CESSNA</b><br>421C GOLDEN EAGLE      | SA10185SC<br>RAM                          | CONTINENTAL GTSIO-520-L or -N<br>375 HP @ 2235 RPM  | HC-C3YN-2UF<br>FC9587D-7<br>FC9587DB-7                                 | 90"                   | D-3273-3P        | <b>1825</b>          |

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|--|---|--|--|-----------------------|-----------------------|----------------------|
| <b>CESSNA</b><br>425 CONQUEST I                | A7CE                                      | PRATT & WHITNEY PT6A-112<br>450 HP @ 1900 RPM                      | HC-B3TN-3C<br>T10178B-8R<br>T10178NB-8R          | 93-3/8 to 91 in.      | D-3434-13P            | <b>438</b>           |
| <b>CESSNA</b><br>441 CONQUEST II               | A28CE                                     | HONEYWELL TPE331-8-401S, -402S<br>750 HP @ 2000 RPM                | HC-B3TN-5(E,M)<br>T10178B-11<br>T10178NB-11      | 90.5" TO 88.5"        | D-3434-11P            | <b>439</b>           |
| <b>CESSNA</b><br>441 CONQUEST II               | STC-SA4026NM<br>AERO AIR                  | GARRETT TPE331-8-401S,-402S,-403S,-404S<br>750 HP @ 2000 RPM       | HC-B3TN-5E<br>T10178-13Q<br>T10178N-13Q          | 88.5"                 | D-3434-11P            | <b>442</b>           |
| <b>CESSNA</b><br>441 CONQUEST II               | STC-SA00058AT<br>EXECUTIVE WINGS/HARTZELL | HONEYWELL TPE331-8-402S, -511S;<br>TPE331-10N<br>750 HP @ 2000 RPM | HC-E4N-5A (Replaces Hartzell)<br>E8501<br>E8501K | 86.0" TO 85.0"        | D-5319-P              | <b>441</b>           |
| <b>CESSNA</b><br>441 CONQUEST II               | STC-SA00058AT<br>EXECUTIVE WINGS/HARTZELL | HONEYWELL TPE331-8-403S, -511S,<br>TPE331-10N<br>635 HP @ 2000 RPM | HC-E4N-5B (Replaces McCauley)<br>E8501<br>E8501K | 86.0" TO 85.0"        | D-5319-P              | <b>1145</b>          |
| <b>CESSNA</b><br>A185E AND A185F SUPER SKYLANE | SA1443NM<br>HARTZELL PROPELLER            | CONTINENTAL IO-520-D<br>300 HP @ 2850 RPM                          | HC-C3YF-1RF<br>F8468A-6R                         | 80.0" TO 77.0"        | C-3575-P<br>C-3575    | <b>2514</b>          |
| <b>CESSNA</b><br>T210L TURBO CENTURION         | SA02319CH-D<br>HARTZELL PROPELLER         | CONTINENTAL TSIO-520-C, -H<br>285 HP @ 2700 RPM                    | HC-J3YF-1RF<br>F7691B+2                          | 80-78"                | C-4582-1P<br>C-4582-1 | <b>2838</b>          |
| <b>CESSNA</b><br>T207 SKYWAGON                 | SA696AL<br>HARTZELL PROPELLER             | CONTINENTAL TSIO-520-G<br>300 HP @ 2700 RPM                        | PHC-C3YF-1RF<br>F8468A-6R                        | 80.0" TO 78.0"        | A-2295-1<br>A-2295-1P | <b>2512</b>          |

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|---|---|--|--|---|-----------------------|----------------------|
| <b>CESSNA</b><br>206, P206(A), U206(A-G), TP206A, TU206(A-F) Super Skylane  | STC SA02752CH-D<br><br>HARTZELL PROPELLER | CONTINENTAL IO-520-(A, F), TSIO-520-C<br><br>285 HP @ 2700 RPM | HC-C3YF-1RF<br><br>F8468A-2R*1<br>F8468A-4R*1<br>F8468AR*1 | F8468AR:86"-85"/ 68A-2R:84"to78"/ 68A-4R:82"to78" | A-2295-1P<br>A-2295-1 | <b>2747</b>          |
| <b>CESSNA</b><br>206, U206U206A, TU206A-TU206F s/n U206)2199, P206A, and TP206A (some) Super Skywagon, Stationair, Turbo Stationair | SA02735CH<br>Vitatoe Aviation LLC         | Continental IO-520-A, TSIO-520-C<br>285 HP @ 2700 RPM          | HC-C3YF-1RF<br>F7693DF+2*1                                 | 80" - 78"   | A-2295-1P<br>A-2295-1 | <b>2900</b>          |
| <b>CESSNA</b><br>206, U206U206A, TU206A-TU206F s/n U206)2199, P206A, and TP206A (some) Super Skywagon, Stationair, Turbo Stationair | SA02821CH<br>Hartzell Propeller           | Continental IO-520-A, TSIO-520-C<br>285 HP @ 2700 RPM          | HC-C3YF-1RF<br>F7693DF+2*1                                 | 80" - 78"   | A-2295-1P<br>A-2295-1 | <b>2978</b>          |
| <b>CESSNA</b><br>U206(B-G) SUPER SKYLANE  | STC-SA685AL<br>HARTZELL PROPELLER         | CONTINENTAL IO-520-F<br>300 HP @ 2850 RPM                      | PHC-C3YF-1RF<br>F8468A-6R                                  | 80.0" TO 77.0"                                    | A-2295-1<br>A-2295-1P | <b>2560</b>          |
| <b>CHAMPION</b><br>see BELLANCA   |   | HP @ RPM   |  |   |                       | <b>443</b>           |
| <b>CHRISTEN</b><br>see AVIAT  |   | HP @ RPM   |  |   |                       | <b>444</b>           |
| <b>Cirrus</b><br>SR22 SR22  | SA04468CH<br>Hartzell Propeller, Inc      | Continental IO-550-N<br>310 HP @ 2700 RPM                      | 4C1-F650A1<br>76C04-0.6<br>76C04-0.6*1<br>76C04B-0.6       | 78"   | 107593P<br>107593     | <b>3771</b>          |
| <b>Cirrus</b><br>SR22T SR22T  | SA04440CH<br>Hartzell Propeller, Inc      | Continental TSIO-550-K<br>315 HP @ 2500 RPM                    | 4C1-F650A1<br>76C04-0.6<br>76C04-0.6*1<br>76C04B-0.6       | 78"   | 107593P<br>107593     | <b>3717</b>          |

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|--|--|--|--|-----------------------|---------------------------------|----------------------|
| <b>CIRRUS DESIGN CORP.</b><br>SR20   | A00009CH                               | Lycoming IO-390-C3B6<br>215 HP @ 2700 RPM    | 3C1-R919A1<br>76C03-2  | 74"                   | 105890P<br>105890               | <b>3479</b>          |
| <b>CIRRUS DESIGN CORP.</b><br>SR20 SR20L                                   | A00009CH                               | Lycoming IO-390-C3B6<br>215 HP @ 2700 RPM    | HC-E3YR-1RF<br>F7392S-1<br>F7392S-1*1  | 74"-73"               | A-2295-1P<br>A-2295-1           | <b>3483</b>          |
| <b>CIRRUS DESIGN CORP.</b><br>SR20, SRV CIRRUS                             | A00009CH                               | CONTINENTAL IO-360-ES<br>200 HP @ 2700 RPM   | BHC-J2YF-1BF<br>F7694<br>F7694*2   | 76" TO 73"            | A-2295-P                        | <b>1486</b>          |
| <b>CIRRUS DESIGN CORP.</b><br>SR20, SRV CIRRUS                             | A00009CH                               | CONTINENTAL IO-360-ES<br>200 HP @ 2700 RPM   | PHC-J3YF-1MF<br>F7392-1  | 74" TO 72"            | A-2295-1P                       | <b>1419</b>          |
| <b>CIRRUS DESIGN CORP.</b><br>SR20 SR20, SR20 G3, SR20 GTS,<br>SRV, SRV G3 | A00009CH                               | CONTINENTAL IO-360-ES<br>200 HP @ 2700 RPM   | PHC-J3YF-1RF<br>F7392-1  | 74" TO 72"            | A-2295-1P                       | <b>1752</b>          |
| <b>CIRRUS DESIGN CORP.</b><br>SR22 SR22, SR22 G3, SR22 GTS                 | A00009CH                               | CONTINENTAL IO(F)-550-N<br>310 HP @ 2700 RPM | PHC-J3YF-1RF<br>F7693DF*2<br>F7693DF*3<br>F7693DF*4<br>F7693DF*5<br>F7693DF*6<br>F7693DF*7<br>F7693DFB<br>F7693DFB*1<br>F7693DFB*2<br>F7693DFB*3<br>F7693DFB*4<br>F7693DFB*5<br>F7693DFB*6 | 78"-76"               | 102870<br>A-2295-1<br>A-2295-1P | <b>2423</b>          |

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|---|--|--|--|-----------------------|--|----------------------|
| <b>CIRRUS DESIGN CORP.</b><br>SR22, SR22 G3, SR22 GTS CIRRUS        | A00009CH                               | CONTINENTAL IO(F)-550-N<br>310 HP @ 2700 RPM | PHC-J3YF-1RF<br>F7694<br>F7694*1<br>F7694*3  | 78" TO 76"            | A-2295-1<br>A-2295-8<br>A-2295-1P<br>A-2295-8P | <b>1662</b>          |
| <b>CIRRUS DESIGN CORP.</b><br>SR22, SR22 G3, SR22 GTS CIRRUS        | A00009CH                               | CONTINENTAL IO(F)-550-N<br>310 HP @ 2700 RPM | PHC-J3YF-1RF<br>F7694B*1   | 78" TO 76"            | A-2295-8P<br>A-2295-8<br>A-2295-1P<br>A-2295-1 | <b>2519</b>          |
| <b>CIRRUS DESIGN CORP.</b><br>SR22 SR22 (G3, GTS, Turbo, Turbo GTS) | A00009CH                               | CONTINENTAL IO(F)-550-N<br>310 HP @ 2700 RPM | PHC-J3Y1F-1N<br>N7605<br>N7605*1<br>N7605*2<br>N7605*3<br>N7605B<br>N7605B*1<br>N7605B*2<br>N7605B*3 | 78                    | 102870<br>A-2295-11P<br>A-2295-11              | <b>2798</b>          |
| <b>CIRRUS DESIGN CORP.</b><br>SR22T SR22T                           | A00009CH                               | CONTINENTAL TSIO-550K<br>315 HP @ 2500 RPM   | PHC-J3Y1F-1N<br>N7605<br>N7605*1<br>N7605*2<br>N7605*3<br>N7605B<br>N7605B*1<br>N7605B*2<br>N7605B*3 | 78                    | 102870<br>A-2295-11P<br>A-2295-11              | <b>2954</b>          |
| <b>CIRRUS DESIGN CORP.</b><br>SR22 SR22                             | SA10588SC<br>ENGINE TECHNOLOGIES       | CONTINENTAL IO-550-N<br>310 HP @ 2700 RPM    | PHC-J3YF-1N<br>N7605   | 78"                   | A-2295-11P<br>A-2295-11                        | <b>2803</b>          |

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|---|--|---|---|-----------------------|-----------------------------------|----------------------|
| <b>CIRRUS DESIGN CORP.</b><br>SR22 SR22 (G3, GTS, Turbo, Turbo GTS) | A00009CH                               | CONTINENTAL IO(F)-550-N<br>310 HP @ 2700 RPM  | PHC-J3Y1F-1N<br>N7605C<br>N7605CB                                 | 78"                   | A-2295-11<br>A-2295-11P<br>102870 | <b>3121</b>          |
| <b>CIRRUS DESIGN CORP.</b><br>SR22T SR22T                           | A00009CH                               | CONTINENTAL TSIO-550-K<br>315 HP @ 2500 RPM   | PHC-J3Y1F-1N<br>N7605C<br>N7605C*1<br>N7605CB<br>N7605CB*1        | 78"                   | A-2295-11<br>A-2295-11P<br>102870 | <b>3122</b>          |
| <b>CIRRUS DESIGN CORP.</b><br>SR22 SR22 (G3, GTS, Turbo, Turbo GTS) | A00009CH                               | CONTINENTAL IO(F)-550-N<br>310 HP @ 2700 RPM  | PHC-J3YF-1N<br>N7605<br>N7605*1<br>N7605B<br>N7605B*1<br>N7605B*2 | 78"                   | A-2295-11P<br>A-2295-11           | <b>2556</b>          |
| <b>CLASSIC SPORT</b><br>S-18(T)                                     | Experimental                           | LYCOMING (I)O-360<br>180 HP @ 2700 RPM        | HC-C2YR-1BF<br>F7666A-4   | 72"                   | 836-60                            | <b>2477</b>          |
| <b>CLASSIC SPORT</b><br>S-18 THORP                                  | Experimental                           | LYCOMING O-320-D1A<br>160 HP @ 2700 RPM       | HC-C2YL-1BF<br>F7663A-4   | 72"                   |                                   | <b>2438</b>          |
| <b>CLASSIC SPORT AIRCRAFT</b><br>S/T-18                             | Experimental                           | LYCOMING O-320, IO-320<br>160 HP @ 2700 RPM   | HC-F2YL-1F<br>F7663A-4  | 72" NO CUT OFF        |                                   | <b>1859</b>          |
| <b>CLASSIC SPORT AIRCRAFT</b><br>S/T-18                             | Experimental                           | LYCOMING (I)O-360 SERIES<br>200 HP @ 2700 RPM | HC-F2YR-1F<br>F7068-2   | 68.0" TO 67.0"        |                                   | <b>1861</b>          |
| <b>CLASSIC SPORT AIRCRAFT</b><br>S/T-18                             | Experimental                           | LYCOMING (I)O-360<br>180 HP @ 2700 RPM        | HC-F2YR-1F<br>F7666A-4  | 72" NO CUT OFF        |                                   | <b>1860</b>          |



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|---|--|---|---------------------------------------|-----------------------|--|----------------------|
| <b>CLASSIC SPORT AIRCRAFT</b><br>S/T-18       | Experimental                           | SUPERIOR XP360<br>180 HP @ 2700 RPM                     | HC-C2YR-1BF<br>F7496-2                | 72"                   |  | 2020                 |
| <b>CLASSIC SPORT AIRCRAFT</b><br>S/T-18       | Experimental                           | SUPERIOR XP360<br>180 HP @ 2700 RPM                     | HC-C2YR-1BFP<br>F7496-2               | 72"                   |  | 2574                 |
| <b>COLONIAL (REVO)</b><br>C1 COLONIAL SKIMMER | 1A13                                   | LYCOMING O-320-A2A<br>150 HP @ 2700 RPM                 | HC-82XL-6L<br>L8046-6                 | 74" TO 72.5"          | 835-30                                     | 445                  |
| <b>COLONIAL (REVO)</b><br>C1 COLONIAL SKIMMER | 1A13                                   | LYCOMING O-320-A2A<br>150 HP @ 2700 RPM                 | HC-82VL-6L, HC-A2VL-6L                | 74" TO 72.5"          | 835-30                                     | 2168                 |
| <b>COMMANDER</b><br>114, 114A                 | SA00326BO<br>Aerodyme Corp             | Lycoming IO-540-T4A5D, T4B5D, T4B5<br>260 HP @ 2700 RPM | HC-C3YR-1RF<br>F7693F*2<br>F7693F-1*2 | 78" to 76"            | D-7709P<br>D-7709<br>C-3575-1P             | 3184                 |
| <b>COMMANDER</b><br>see AERO COMMANDER        |  | HP @ RPM  |                                       |                       |  | 447                  |
| <b>COMMANDER</b><br>114, 114(A,B) Commander   | SA00326BO<br>Aerodyme Corp.            | LYCOMING IO-540-T4A5D,T4B5D,T4B5<br>260 HP @ 2700 RPM   | HC-M3YR-1RF<br>F7693F<br>F7693F-1     | 78"-76"               | D-7709P<br>D-7709<br>C-3575-1P<br>C-3575-1 | 3871                 |
| <b>COMMANDER</b><br>114, 114(A,B,TC)          | SA00241BO<br>Aerodyme Corp.            | LYCOMING IO-580-B1A<br>315 HP @ 2700 RPM                | HC-M3YR-1RF<br>F7693F                 | 78"                   | D-7709P<br>D-7709                          | 2635                 |
| <b>COMMANDER</b><br>114, 114(A,B,TC)          | SA00241BO<br>Aerodyme Corp.            | LYCOMING IO-580-B1A<br>315 HP @ 2700 RPM                | HC-C3YR-1RF<br>F7693F*2               | 78"                   | D-7709<br>D-7709P                          | 2549                 |
| <b>CONSOLIDATED</b><br>see LAKE               |  | HP @ RPM  |                                       |                       |  | 448                  |
| <b>CROPLEASE</b><br>see NORMAN AEROPLANE      |  | HP @ RPM  |                                       |                       |  | 449                  |

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|--|--|--|----------------------------------|-----------------------|--------------------------------|----------------------|
| <b>CubCrafters</b><br>CC19-180 Xcub                | A00053SE                                   | Lycoming O-360-C1G<br>180 HP @ 2700 RPM            | HC-C2YR-1N<br>NG8301-5           | 78"                   | 106040F2<br>106040F1<br>106040 | <b>3443</b>          |
| <b>CubCrafters</b><br>CCEX3/FX3 Carbon Cub EX3/FX3 | Experimental                               | Aero Sport Power CC363i<br>185 HP @ 2700 RPM       | HC-C2YR-1NW<br>NG8301W-3         | 80"                   | 106040F2<br>106040F1<br>106040 | <b>3537</b>          |
| <b>CubCrafters</b><br>CCEX3/FX3 Carbon Cub EX3/FX3 | Experimental                               | Aero Sport Power CC363i<br>185 HP @ 2700 RPM       | HC-C2YR-1NW<br>NG8301W           | 83"                   | 106040F2<br>106040F1<br>106040 | <b>3542</b>          |
| <b>CubCrafters</b><br>CCX-2300 Carbon Cub (EX, FX) | Experimental                               | Lycoming IO-390-D3B6 (CC393i)<br>215 HP @ 2700 RPM | 3C1-R430A1W<br>80C01W-4          | 76"                   | 107974F2<br>107974F1<br>107974 | <b>3760</b>          |
| <b>CubCrafters</b><br>CCX-2300 Carbon Cub (EX, FX) | Experimental                               | Lycoming IO-390-D3B6 (CC393i)<br>215 HP @ 2700 RPM | 3C1-R430A1W<br>80C01W            | 80"                   | 107974F2<br>107974F1<br>107974 | <b>3762</b>          |
| <b>CubCrafters</b><br>EX-3/FX-3 Carbon Cub         | Experimental                               | Lycoming IO-390-D3B6 (CC393i)<br>215 HP @ 2700 RPM | 3C1-R430A1X<br>80C01-4X          | 76"                   | 107974X                        | <b>3737</b>          |
| <b>CubCrafters</b><br>EX-3/FX-3 Carbon Cub         | Experimental                               | Lycoming IO-390-D3B6 (CC393i)<br>215 HP @ 2700 RPM | HC-C2YR-1NW                      | 76"                   | 106040F2<br>106040F1<br>106040 | <b>3736</b>          |
| <b>D.F.L HOLDINGS</b><br>TANGO                     | Experimental                               | LYCOMING O-360-A1A<br>180 HP @ 2700 RPM            | HC-C2YR-1BF<br>F7666A            | 76"                   | C-3568-P                       | <b>1197</b>          |
| <b>Daher</b><br>TBM 700 TBM 960                    | A60EU                                      | Pratt & Whitney PT6E-66XT<br>895 HP @ 1925 RPM     | 5D31-NK366B1<br>86DB01B          | 91"                   | 108167P<br>108167              | <b>3770</b>          |

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|--|--|--|---|-----------------------|--|----------------------|
| Daher Kodiak Aircraft Engineering<br>Kodiak 200 Kodiak 900 | A00007SE                               | Pratt and Whitney PT6A-140A<br>900 HP @ 1900 RPM       | HC-E5W-3(Y)<br>NC9405B<br>NC9405B*1           | 97.0                  | 106940P<br>106940-1P<br>106940-1<br>106940 | <b>3698</b>          |
| <b>DE HAVILLAND</b><br>DH104 DOVE                          | STC-SA168SO<br>RILEY TURBOSTREAM       | LYCOMING IO-720-A1A<br>400 HP @ 2650 RPM               | HC-A3VK-2A<br>V8433-4R<br>V8433N-4R           | 80.6"                 | C-2513-2P                                  | <b>2169</b>          |
| <b>DE HAVILLAND</b><br>DH104 DOVE                          | STC-SA168SO<br>RILEY TURBOSTREAM       | LYCOMING IO-720-A1A<br>400 HP @ 2650 RPM               | HC-A3MVK-2A<br>MV8433N-4R                     | 80.6"                 | C-2513-2P                                  | <b>453</b>           |
| <b>DE HAVILLAND</b><br>DH114 HERON                         | STC-SA816WE<br>CHARLES SCHACHLE        | BRISTOL-SIDLEY GYPSY QUEEN 30MK-2<br>250 HP @ 2500 RPM | not procurable                                | 76.6"                 | 836-35LS                                   | <b>455</b>           |
| <b>DE HAVILLAND</b><br>DH114 HERON                         | STC-SA629SO<br>RILEY TURBOSTREAM       | LYCOMING IO-540-G1B5<br>290 HP @ 2575 RPM              | HC-83XK-2A, HC-A3XK-2A<br>8433-7              | 74.6"                 | C-2513-2P                                  | <b>2170</b>          |
| <b>DE HAVILLAND</b><br>DH114 HERON                         | STC-SA629SO<br>RILEY TURBOSTREAM       | LYCOMING IO-540-G1B5<br>290 HP @ 2575 RPM              | HC-83VK-2A, HC-A3VK-2A<br>V8433-7<br>V8433N-7 | 74.6"                 | C-2513-2P                                  | <b>2171</b>          |
| <b>DE HAVILLAND</b><br>DH114 HERON                         | STC-SA629SO<br>RILEY TURBOSTREAM       | LYCOMING IO-540-G1B5<br>290 HP @ 2575 RPM              | HC-A3MVK-2A<br>MV8433N-7                      | 74.6"                 | C-2513-2P                                  | <b>454</b>           |
| <b>DE HAVILLAND</b><br>DH114 HERON (MODIFIED)              | Unknown<br>SAUNDERS (ST-27)            | PRATT & WHITNEY PT6A-27<br>620 HP @ 2200 RPM           | HC-B3TN-3DY<br>T10178B-11*3<br>T10178NB-11*3  | 90.5"                 | C-3065-1P                                  | <b>457</b>           |
| <b>DE HAVILLAND</b><br>DH114 HERON (MODIFIED)              | Unknown<br>SAUNDERS (ST-27B)           | PRATT & WHITNEY PT6A-34<br>750 HP @ 2024 RPM           | HC-B4TN-3A<br>T10173F-12.5<br>T10173FN-12.5   | 90"                   | C-3425                                     | <b>458</b>           |

# HARTZELL

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| <u>Model/Trade Name:</u>                               | <u>Aircraft T.C./STC No/ Modifier:</u>  | <u>Engine/ Power:</u>                                    | <u>Propeller/Blade Model(s):</u>                  | <u>Prop Diameter:</u> | <u>Spinner:</u>                          | <u>IDS Ref. No.:</u> |
|--|---|--|---|-----------------------|--|----------------------|
| <b>DE HAVILLAND CANADA</b><br>DHC-6-100 Twin Otter     | (Canada) SA99-14<br>Kenn Borek Air Ltd. | PRATT & WHITNEY PT6A-27<br>620 HP @ 2110 RPM             | HC-B3TN-3D(Y)<br>T10282N                          | 102.0" TO 100"        | C-3065-1<br>C-3065-1P                    | <b>3292</b>          |
| <b>DE HAVILLAND CANADA</b><br>DHC-2 BOSS BEAVER        | SA01186CH<br>WIPAIRE, INC               | PRATT & WHITNEY PT6A-27, 28<br>650 HP @ 2200 RPM         | HC-B3TN-3DY<br>T10282N*1                          | 102.0" TO 100.0"      | C-3065-1P                                | <b>1788</b>          |
| <b>DE HAVILLAND CANADA</b><br>DHC-2 MKI BEAVER         | STC-SA590NW<br>KENMORE AIR HARBOR       | PRATT & WHITNEY R985<br>450 HP @ 2300 RPM                | HC-B3R30-1<br>R10152-5.5<br>R10152N-5.5           | 95.5" NO CUT OFF      | 104368P<br>104368<br>836-32PR<br>836-32R | <b>461</b>           |
| <b>DE HAVILLAND CANADA</b><br>DHC-2 MKI BEAVER         | STC-SA398NW<br>KENMORE AIR HARBOR       | PRATT & WHITNEY R985<br>450 HP @ 2300 RPM                | HC-B3R30-4B<br>R10152-5.5<br>R10152N-5.5          | 95.5" NO CUT OFF      | 104368P<br>104368<br>836-32PR<br>836-32R | <b>460</b>           |
| <b>DE HAVILLAND CANADA</b><br>DHC-2 MKI BEAVER         | STC-SA709GL<br>WIPAIR INC               | PRATT & WHITNEY R985<br>450 HP @ 2300 RPM                | HC-B3R30-4, -4A, -4B<br>R10152-5.5<br>R10152N-5.5 | 95.5" NO CUT OFF      | 836-32PR<br>104368P<br>104368            | <b>462</b>           |
| <b>DE HAVILLAND CANADA</b><br>DHC-2 MKIII TURBO BEAVER | A806                                    | PRATT & WHITNEY PT6A-6A,-20<br>550 HP @ 2200 RPM         | HC-B3TN-3, -3B, -3BY<br>T10173C+1<br>T10173CN+1   | 102.5" TO 100.0"      | C-3065-1P                                | <b>459</b>           |
| <b>DE HAVILLAND CANADA</b><br>DHC-2 MKIII BEAVER       | STC SA620NE<br>VIKING AIR LTD.          | PRATT & WHITNEY PT6A-27, -15AG, -34<br>680 HP @ 2200 RPM | HC-B3TN-3D<br>T10282N<br>T10282NB*5<br>T10282NK   | 102.0" TO 100.0"      |  | <b>463</b>           |
| <b>DE HAVILLAND CANADA</b><br>DHC-2 MKIII BEAVER       | STC SA620NE<br>VIKING AIR LTD.          | PRATT & WHITNEY PT6A-27, -15AG, -34<br>680 HP @ 2200 RPM | HC-B3TN-3DY<br>T10282N<br>T10282NB*5              | 102.0" TO 100.0"      | C-3065-1P<br>C-3065-1                    | <b>1566</b>          |

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|---|--|--|--|-----------------------|-----------------------|----------------------|
| DE HAVILLAND CANADA<br>DHC-2 MKIII BEAVER       | STC SA620NE, SA4326NM<br>VIKING AIR LTD. | PRATT & WHITNEY PT6A-27, -15AG, -34<br>680 HP @ 2200 RPM | HC-B3TN-3BY<br>T10173CN+1                | 102.5"                | C-3065-1P<br>C-3065-1 | 1575                 |
| DE HAVILLAND CANADA<br>DHC-2 MKIII TURBO BEAVER | STC-SA3684NM<br>KENMORE AIR HARBOR       | PRATT & WHITNEY PT6A-135(A)<br>600 HP @ 1900 RPM         | HC-B3TN-3(D)(Y)<br>T10282<br>T10282N     | 102.0" TO 100"        |                       | 465                  |
| DE HAVILLAND CANADA<br>DHC-2 MKIII BEAVER       | Unknown<br>VIKING AIR LTD.               | PRATT & WHITNEY PT6A-27, -15AG, -34<br>680 HP @ 2200 RPM | HC-B3TN-3B<br>T10173C+1                  | 102.5"                | C-3065-1P<br>C-3065-1 | 1146                 |
| DE HAVILLAND CANADA<br>DHC-3 OTTER              | STC SA3777NM<br>Vazar                    | PRATT & WHITNEY PT6A-135, PT6A-135A<br>750 HP @ 1900 RPM | HC-B3TN-3DY<br>T10282<br>T10282N         | 102.0" to 100.5"      | D-3434-12P            | 466                  |
| DE HAVILLAND CANADA<br>DHC-3 OTTER              | STC SA3777NM<br>Vazar (prev. Serv-Aero)  | PRATT & WHITNEY PT6A-34, PT6A-34AG<br>750 HP @ 2200 RPM  | HC-B3TN-3DY<br>T10282<br>T10282N         | 102.0" to 100.5"      | D-3434-12P            | 3868                 |
| DE HAVILLAND CANADA<br>DHC-3 OTTER              | STC-SA09866SC<br>TEXAS TURBINES          | HONEYWELL TPE-331-10<br>900 HP @ 1591 RPM                | HC-B4TN-5NL<br>LT10890N*1                | 109.5" TO 107.5"      | D-3434-7P             | 1698                 |
| DE HAVILLAND CANADA<br>DHC-3 OTTER              | STC-SA3777NM<br>Vazar                    | PRATT & WHITNEY PT6A-135, PT6A-135A<br>750 HP @ 1900 RPM | HC-B3TN-3DY<br>T10282+4*1<br>T10282N+4*1 | 106.5" to 100.5"      | D-3434-12P            | 1147                 |
| DE HAVILLAND CANADA<br>DHC-3 OTTER              | STC-SA3777NM<br>Vazar (prev. Serv-Aero)  | PRATT & WHITNEY PT6A-34, PT6A-34AG<br>750 HP @ 2200 RPM  | HC-B3TN-3DY<br>T10282+4*1<br>T10282N+4*1 | 106.5" to 100.5"      | D-3434-12P            | 3867                 |
| DE HAVILLAND CANADA<br>DHC-3 OTTER              | STC SA02988NY<br>VIKING AIR LTD.         | PRATT & WHITNEY PT6A-34, PT6A-35<br>750 HP @ 2190 RPM    | HC-B3TN-3DY<br>T10282N+4                 | 106.5"                | C-3065-1P             | 2535                 |

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|---|--|--|---|-----------------------|--------------------------------|----------------------|
| DE HAVILLAND CANADA<br>DHC-3 OTTER          | SA3777NM<br><br>Vazar                  | PRATT & WHITNEY PT6A-135, PT6A-135A<br><br>750 HP @ 1900 RPM | HC-B3TN-3AEY<br><br>T10290N+2*1   | 104"                  | D-3434-12P                     | 1792                 |
| DE HAVILLAND CANADA<br>DHC-4 TURBO CARIBOU  | STC ST01294NY<br>PEN TURBO             | PRATT & WHITNEY PT6A-67<br><br>1281 HP @ 1700 RPM            | HC-B5MA-3M<br><br>M11691NK  | 118.7" TO 118.2"      | D-5497-P                       | 468                  |
| DE HAVILLAND CANADA<br>DHC-6-100 TWIN OTTER | Unknown<br>FIELD AVIATION              | PRATT & WHITNEY PT6A-20<br><br>550 HP @ 2200 RPM             | HC-D4N-3E<br><br>D9511FK*3  | 96"                   | D-630-P                        | 474                  |
| DE HAVILLAND CANADA<br>DHC-6-300 TWIN OTTER | STC-SA00023NY<br>FIELD AVIATION        | PRATT & WHITNEY PT6A-27<br><br>620 HP @ 2200 RPM             | HC-D4N-3E<br><br>D9511F<br><br>D9511FK*3  | 96.0"                 | D-630-P                        | 471                  |
| DE HAVILLAND CANADA<br>DHC-6-300 TWIN OTTER | STC-SA3532NM<br>RAISBECK               | PRATT & WHITNEY PT6A-27, -34<br><br>620 HP @ 2200 RPM        | HC-D4N-3C<br><br>D9290K   | 93" TO 92"            | D-630-7P<br>D-630-7<br>D-630-P | 473                  |
| DE HAVILLAND CANADA<br>DHC-6-300 TWIN OTTER | STC SA100CH<br>WIPAIRE, INC.           | PRATT & WHITNEY PT6A-34<br><br>750 HP @ 2200 RPM             | HC-B3TN-3D(Y)<br>T10282<br>T10282*1<br>T10282B*1<br>T10282B*2<br>T10282N<br>T10282N*1<br>T10282NB*1 | 102.0" TO 98.0"       | C-3065-1P<br>C-3065-1          | 1272                 |
| DE HAVILLAND CANADA<br>DHC-6-300 TWIN OTTER | STC SA743NE<br>VIKING AIR LTD.         | PRATT & WHITNEY PT6A-34<br><br>620 HP @ 2110 RPM             | HC-B3TN-3DY<br>T10282<br>T10282*1<br>T10282B*2<br>T10282N<br>T10282N*1<br>T10282NB*1                | 102.0"                | C-3065-1<br>C-3065-1P          | 472                  |

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|---|--|--|---|-----------------------|------------------------------------|----------------------|
| DE HAVILLAND CANADA (Viking Air)<br>DHC-6-400 TWIN OTTER                  | A9EA                                   | PRATT & WHITNEY PT6A-34<br>620 HP @ 2110 RPM | HC-B3TN-3D(Y)<br>T10282<br>T10282B*1<br>T10282HB<br>T10282N*1   | 102.0" - 100.0"       | C-3065-1<br>C-3065-1P<br>C-3065-1G | 2817                 |
| DE HAVILLAND CANADA(Viking Air)<br>DHC-6-100, -110, -200, -210 TWIN OTTER | A9EA                                   | PRATT & WHITNEY PT6A-20<br>550 HP @ 2200 RPM | HC-B3TN-3BY<br>T10173+1<br>T10173E+1<br>T10173N+1<br>T10173NE+1 | 102.5" TO 100"        | C-3065-1<br>C-3065-1P              | 469                  |
| DEHAVILLAND<br>CHIPMUNK   | Unknown                                | CONTINENTAL IO-360-D<br>210 HP @ 2800 RPM    | BHC-I2YF-4BF<br>FC8459A-4                                       | 80"                   | 835-42                             | 1931                 |
| DEHAVILLAND CANADA<br>DHC-6-100, -200 TWIN OTTER                          | SA01673NY<br>ROCKY MOUNTAIN AIRCRAFT   | PRATT & WHITNEY PT6A-34<br>550 HP @ 2110 RPM | HC-B3TN-3D<br>T10282N   | 102" TO 100"          | C-3065-1P<br>C-3065-1              | 2640                 |
| DEHAVILLAND CANADA<br>DHC-6-100, -200 TWIN OTTER                          | SA01673NY<br>ROCKY MOUNTAIN AIRCRAFT   | PRATT & WHITNEY PT6A-34<br>550 HP @ 2110 RPM | HC-B3TN-3DY<br>T10282N  | 102" TO 100"          | C-3065-1P<br>C-3065-1              | 2601                 |
| DEHAVILLAND CANADA(VIKING AIR)<br>DHC-6-1 TWIN OTTER                      | A9EA                                   | PRATT & WHITNEY PT6A-20<br>550 HP @ 2200 RPM | HC-B3TN-3BY<br>T10173+1<br>T10173E+1<br>T10173N+1<br>T10173NE+1 | 102.5" TO 100"        | C-3065-1P<br>C-3065-1              | 2690                 |
| deHavilland Canada(Viking Air)<br>DHC-6-1 TWIN OTTER                      | A9EA                                   | PRATT & WHITNEY PT6A-20<br>550 HP @ 2200 RPM | HC-B3TN-3B<br>T10173N+1<br>T10173NE+1                           | 102.5" TO 100"        | C-3065-1P<br>C-3065-1              | 2691                 |

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|--|--|---|--|-----------------------|------------------------------------|----------------------|
| DeHavilland Canada(Viking Air)<br>DHC-6-300, -310, -320 TWIN OTTER       | A9EA                                   | PRATT & WHITNEY PT6A-27<br>620 HP @ 2110 RPM  | HC-B3TN-3D(Y)<br>T10282B*2<br>T10282N<br>T10282N*1<br>T10282NB*1 | 102.0" TO 100"        | C-3065-1<br>C-3065-1P<br>C-3065-1G | 470                  |
| DeHavilland Canada(Viking Air)<br>DHC-6-100, -110, -200, -210 TWIN OTTER | A9EA                                   | PRATT & WHITNEY PT6A-20<br>550 HP @ 2200 RPM  | HC-B3TN-3B<br>T10173+1<br>T10173N+1<br>T10173NE+1                | 102.5" TO 100"        | C-3065-1<br>C-3065-1P              | 1901                 |
| DeHavilland Canada(Viking Air)<br>DHC-6-300, -310, -320 TWIN OTTER       | A9EA                                   | PRATT & WHITNEY PT6A-27<br>620 HP @ 2110 RPM  | HC-B3TN-3DY<br>T10282B*2   | 102.0" TO 100"        | C-3065-1<br>C-3065-1P              | 1930                 |
| <b>DERRINGER AIRCRAFT CORP.</b><br>D-1 WING DERRINGER                    | Experimental                           | LYCOMING IO-320-B1C, C1A<br>160 HP @ 2700 RPM | HC-C2YL-2CUFP<br>FC7068-2  | 68" TO 66"            | 836-29<br>836-29P                  | 2428                 |
| <b>DIAMOND AIRCRAFT</b><br>DA 40   | SA01850CH<br>HARTZELL PROPELLER        | LYCOMING IO-360-M1A<br>180 HP @ 2700 RPM      | HC-C2YR-1BF<br>F7495S  | 74" TO 72" MIN        | A-2295<br>A-2295-P                 | 1588                 |
| <b>DIAMOND AIRCRAFT</b><br>DA40XL DiamondStar                            | SA02476CH-D<br>Hartzell Propeller      | LYCOMING IO-360-M1A<br>180 HP @ 2700 RPM      | HC-C2YR-1BFP<br>F7497*1  | 74" - 72"             | A-2295<br>A-2295-P                 | 2728                 |
| <b>DIAMOND AIRCRAFT</b><br>DA40XL DIAMONDSTAR                            | SA02476CH-D<br>HARTZELL PROPELLER      | LYCOMING IO-360-M1A<br>180 HP @ 2700 RPM      | HC-C2YR-1N<br>N7605  | 76                    | A-2295<br>A-2295-P                 | 2727                 |
| <b>Diamond Aircraft Industries</b><br>DA 40 NG DA 40 NG                  | SA04549CH<br>Hartzell Propeller Inc.   | Austro Engine E4-A<br>166 HP @ 2300 RPM       | 3A1-QP460A1<br>75A01-2   | 74.0                  | 108482F2<br>108482F1<br>108482     | 3851                 |



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|---|--|---|---|-----------------------|------------------------|----------------------|
| <b>DORNIER</b><br>DO27Q-6                   | A8IN                                       | LYCOMING GO-480-B1A6<br><br>270 HP @ 2182 RPM     | HC-A2X20-1, HC-82X20-1A, HC-<br>A2X20-1A, HC-82X20-1B | 98" TO 96"            | 835-15                 | 2172                 |
| <b>DORNIER</b><br>DO27Q-6                   | A8IN                                       | LYCOMING GO-480-B1A6<br><br>270 HP @ 2182 RPM     | HC-A2V20-1A<br>V10133N-3                              | 98" TO 96"            | 835-15                 | 2315                 |
| <b>DORNIER</b><br>DO27Q-6                   | A8IN                                       | LYCOMING GO-480-B1A6<br><br>270 HP @ 2182 RPM     | HC-A2MV20-1A<br>MV10133N-3                            | 98" TO 96"            | 835-15                 | 477                  |
| <b>DORNIER</b><br>DO28A-1                   | 7A13                                       | LYCOMING O-540-A1D<br><br>250 HP @ 2575 RPM       | HC-A2MVK-2<br>MV8433N-2                               | 82.3" TO 82"          | 835-14                 | 478                  |
| <b>DORNIER</b><br>DO28A-1                   | 7A13                                       | LYCOMING O-540-A1D<br><br>250 HP @ 2575 RPM       | HC-82XK-2, HC-A2XK-2<br>8433-2                        | 82.3" TO 82"          | 835-14                 | 2173                 |
| <b>DORNIER</b><br>DO28A-1                   | 7A13                                       | LYCOMING O-540-A1D<br><br>250 HP @ 2575 RPM       | HC-82VK-2, HC-A2VK-2<br>V8433-2<br>V8433N-2           | 82.3" TO 82"          | 835-14                 | 2175                 |
| <b>DORNIER</b><br>DO28B-1                   | 7A13                                       | LYCOMING IO-540-A1A5<br><br>290 HP @ 2575 RPM     | HC-83VK-2C, HC-A3VK-2C<br>V8433-4<br>V8433N-4         | 80.6" TO 80"          | C-2513                 | 2174                 |
| <b>DORNIER</b><br>DO28B-1                   | 7A13                                       | LYCOMING IO-540-A1A5<br><br>290 HP @ 2575 RPM     | HC-A3MVK-2C<br>MV8433N-4                              | 80.6" TO 80"          | C-2513                 | 479                  |
| <b>DORNIER</b><br>DO28D, DO28D-1 SKYSERVANT | A16EU                                      | LYCOMING IGSO-540-A1E<br><br>380 HP @ 2182 RPM    | HC-B3W30-2B<br>W10151-8R<br>W10151B-8R<br>W10151N-8R  | 93.5" TO 93"          | 836-32SPR<br>836-31SPR | 480                  |
| <b>DORNIER</b><br>128-6                     | Unknown                                    | PRATT & WHITNEY PT6A-110<br><br>450 HP @ 1900 RPM | HC-B3TN-3D<br>T10282B-9.5<br>T10282NB-9.5             | 93.0"                 | C-3065-P               | 475                  |

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|---|--|---|--|-----------------------|-----------------------|----------------------|
| <b>DORNIER</b><br>DO228-100,101,200,201,202<br>COMMUTER | A16EU                                      | HONEYWELL TPE331-5-252D<br>715 HP @ 1591 RPM    | HC-B4TN-5ML<br>LT10574FNS<br>LT10574FNSB<br>LT10574FNSB*1<br>LT10574FS<br>LT10574FSB | 106.0" TO 105.0"      | D-3434-7              | <b>481</b>           |
| <b>DORNIER</b><br>DO228-212 COMMUTER                    | A16EU                                      | HONEYWELL TPE331-5A-252D<br>776 HP @ 1591 RPM   | HC-B4TN-5ML<br>LT10574FNSB<br>LT10574FNSB*1<br>LT10574FSB                            | 106.0" TO 105.0"      | D-3434-7<br>D-3434-7P | <b>482</b>           |
| <b>DORNIER</b><br>DO328-110                             | A45NM                                      | PRATT & WHITNEY PW119B<br>2180 HP @ 1300 RPM    | HD-E6C-3B<br>E13890K<br>E13890K(SO)  | 142.0"                | E-5579-6              | <b>1152</b>          |
| <b>DOUGLAS</b><br>DC-3C                                 | STC SA3820SW<br>GREENWICH AIRCRAFT CORP.   | PRATT & WHITNEY PT6A-65AR<br>1230 HP @ 1700 RPM | HC-B5MP-3C<br>M10876ANS<br>M10876ANSK<br>M10876NS                                    | 111.2"                | D-3434-8<br>D-3434-8P | <b>484</b>           |
| <b>DOUGLAS</b><br>DC-3C                                 | STC-SA4840NM<br>BASLER TURBO CONVERSIONS   | PRATT & WHITNEY PT6A-67R<br>1281 HP @ 1700 RPM  | HC-B5MA-3<br>M11276K<br>M11276NK   | 115.2" TO 114.7"      | D-5497-P              | <b>483</b>           |
| <b>DOUGLAS</b><br>DC-3C                                 | STC SA3820SW<br>GREENWICH AIRCRAFT CORP.   | PRATT & WHITNEY PT6A-67R<br>1230 HP @ 1700 RPM  | HC-B5MA-3J<br>M10876ANS<br>M10876ANSK  | 111.0" TO 110.7"      | D-5574-P              | <b>1270</b>          |
| <b>DOUGLAS</b><br>DC-3C                                 | SA4840NM<br>BASLER                         | PRATT & WHITNEY PT6A-67R<br>1281 HP @ 1700 RPM  | HC-B5MA-3M<br>M11691NS<br>M11691NSK  | 118.7" TO 118.2"      | D-5497-P              | <b>1834</b>          |

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|--|--|--|---|-----------------------|--|----------------------|
| <b>DREAM AIRCRAFT</b><br>Tundra              | Experimental                           | Superior XP-0-360-B1BC2<br>180 HP @ 2700 RPM       | HC-C2YR-1BF<br>F8477-4*2                            | 80" to 78"            |  | <b>2960</b>          |
| <b>EL GAVILAN S.A.</b><br>358 GAVILAN        | A00002NY                               | LYCOMING TIO-540-W2A<br>350 HP @ 2600 RPM          | HC-C3YR-1RF<br>F8468A-6R                            | 80" NO CUTOFF         | C-3570   | <b>1651</b>          |
| <b>EMBRAER</b><br>M203 IPANEMA               | Unknown                                | Textron Lycoming IO-540-K1J5<br>320 HP @ 2700 RPM  | HC-E3YR-1RF<br>F8468AR                              | 86"                   | A-2295-1P<br>A-2295-1  | <b>3334</b>          |
| <b>EMBRAER</b><br>EMB-110-P1,-P2 BANDEIRANTE | A21SO                                  | PRATT & WHITNEY PT6A-34<br>750 HP @ 2200 RPM       | HC-B3TN-3C, HC-B3TN-3D<br>T10178B-8R<br>T10178NB-8R | 93.5" TO 93.0"        | D-3434-12P<br>D-3434-6<br>D-3434-5<br>D-3434-6P<br>D-3434-5P<br>D-3434-17P | <b>486</b>           |
| <b>EMBRAER</b><br>EMB-121A1 XINGU            | Unknown                                | PRATT & WHITNEY PT6A-135<br>750 HP @ 1900 RPM      | HC-B4TN-3C<br>T9212B<br>T9212NB                     | 93"                   | D-3434-18P   | <b>487</b>           |
| <b>EMBRAER</b><br>EMB-200A IPANEMA           | Unknown                                | LYCOMING O-540-H1B5D<br>260 HP @ 2700 RPM          | HC-C2YK-1BF<br>F8477-4                              | 80"                   | 835-33   | <b>488</b>           |
| <b>EMBRAER</b><br>EMB-201A, -202 IPANEMA     | Unknown                                | LYCOMING IO-540-K1J5D<br>300 HP @ 2700 RPM         | HC-C3YR-1RF<br>F8468-2R                             | 84"                   | 835-36<br>835-36P  | <b>490</b>           |
| <b>EMBRAER</b><br>EMB-201A, -202 IPANEMA     | Unknown                                | LYCOMING IO-540-K1F5D, -K1J5D<br>300 HP @ 2700 RPM | HC-C2YR-1BF<br>F8475R                               | 84"                   | 835-33   | <b>489</b>           |
| <b>EMBRAER</b><br>M203 Ipanema               | Unknown                                | Lycoming IO-540-K1J5<br>315 HP @ 2700 RPM          | HC-E3YR-1RF<br>F8468A-2R                            | 84"                   | A-2295-1<br>A-2295-1P  | <b>3182</b>          |

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|--|--|--|---|-----------------------|--|----------------------|
| <b>EMBRAER</b><br>EMB-312 TUCANO               | Unknown                                | PRATT & WHITNEY PT6A-25C<br>750 HP @ 2200 RPM                        | HC-B3TN-3C, 3D<br>T10178-8R<br>T10178K-8R<br>T10178N-8R<br>T10178N-8R*1 | 93.5" TO 91.0"        | C-3065-11P<br>C-3065-11<br>D-3434-17P    | <b>491</b>           |
| <b>EMBRAER</b><br>EMB-314 SUPER TUCANO         | Unknown                                | PRATT & WHITNEY PT6A-68C<br>1600 HP @ 2000 RPM                       | HC-B5MA-2<br>M9128NSK   | 94                    | D-5497-3P<br>D-5497-4<br>D-5497-3        | <b>1886</b>          |
| <b>EMBRAER/NEIVA</b><br>EMB-710C & 710 CARIOCA | EA-7503                                | LYCOMING O-540-B4B5<br>235 HP @ 2575 RPM                             | HC-C2YK-1( )F<br>F8468A-4   | 80.0" NO CUT OFF      |  | <b>2534</b>          |
| <b>EMBRAER/NEIVA</b><br>EMB-710D CARIOCA       | EA-7503                                | LYCOMING O-540-J3A5D<br>235 HP @ 2400 RPM                            | HC-F2YR-1F<br>F8468A-4R   | 80.0" TO 78.0"        | C-3568-P<br>C-3568                       | <b>2537</b>          |
| <b>EMBRAER/NEIVA</b><br>EMB-711B CORISCO       | EA-7502                                | LYCOMING IO-360-C1C6<br>200 HP @ 2700 RPM                            | HC-C2YK-1BF<br>F7666A-2R  | 74" TO 72"            |  | <b>2544</b>          |
| <b>EMBRAER/NEIVA</b><br>EMB-711C & 711 CORISCO | EA-7502                                | LYCOMING IO-360-C1C<br>200 HP @ 2700 RPM                             | HC-C2YK-1( )F<br>F7666A-2   | 74.0" TO 72.5"        |  | <b>2546</b>          |
| <b>EMBRAER/NEIVA</b><br>EMB-720D MINUANO       | EA-7504                                | LYCOMING IO-540-K1G5<br>300 HP @ 2700 RPM                            | HC-C2Y(K,R)-1( )F<br>F8475D-4   | 80" TO 78.5"          |  | <b>2583</b>          |
| <b>EMBRAER/NEIVA</b><br>EMB-720D MINUANO       | EA-7504                                | LYCOMING IO-540-K1G5<br>300 HP @ 2700 RPM                            | HC-C3YR-1( )F<br>F7663R<br>F7663R*3                                     | 78" TO 76"            | 835-47<br>103629F2<br>103629F1<br>103629 | <b>2550</b>          |
| <b>EMBRAER/NEIVA</b><br>EMB-721C MINUANO       | EA-7506                                | LYCOMING IO-540-K1A5D, -K1G5D (S/N 721015 & UP)<br>300 HP @ 2700 RPM | HC-C2YK-1BF<br>F8475D-4   | 80.0" TO 78.5"        |  | <b>2551</b>          |

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|---|--|--|----------------------------------|-----------------------|--|----------------------|
| <b>ENAER (PIPER)</b><br>T-35 PILLAN (PA-28R-300)      | Unknown                                | LYCOMING IO-540-K1A5D, -K1G5D<br>300 HP @ 2700 RPM | HC-C3YR-4BF<br>FC7663R           | 78"                   | D-5205-P<br>D-5205   | <b>494</b>           |
| <b>Epic</b><br>E1000 E1000 GX                         | A00059SE                               | PRATT & WHITNEY PT6A-67A<br>1200 HP @ 1700 RPM     | HC-E5A-3A<br>NC10245B*6          | 105"                  | 105820P<br>105820  | <b>3790</b>          |
| <b>Epic Aircraft</b><br>E1000 E1000                   | A00059SE                               | PRATT & WHITNEY PT6A-67A<br>1200 HP @ 1700 RPM     | HC-E4A-3D<br>E10477SK            | 105"-104"             | D-5500-1P<br>D-5500-1F   | <b>2526</b>          |
| <b>EVANGEL-AIR</b><br>4500-300                        | A17CE                                  | LYCOMING IO-540-K1B5<br>300 HP @ 2700 RPM          | HC-C2YK-2BF<br>FC8475A-4         | 80" NO CUT OFF        | 836-29   | <b>496</b>           |
| <b>EVANGEL-AIR</b><br>4500-300 SERIES II              | A17CE                                  | LYCOMING IO-540-K1B5<br>300 HP @ 2700 RPM          | HC-C2YK-2B<br>FC8475A-4          | 80" NO CUT OFF        | 836-29   | <b>497</b>           |
| <b>EXPERIMENTAL AIRCRAFT TECH, IN</b><br>S-90 EXPRESS | Experimental                           | LYCOMING IO-540-D4A5<br>260 HP @ 2700 RPM          | HC-F3YR-1RF<br>F7663D-2Q         | 76" NO CUT OFF        | C-3575-1P  | <b>1584</b>          |
| <b>EXPRESS AIRCRAFT</b><br>S-90 RG EXPRESS            | Experimental                           | CONTINENTAL IO-550-N<br>310 HP @ 2700 RPM          | PHC-J3YF-1RF<br>F7691            | 78.0" TO 76.0"        | C-3575-1P  | <b>1632</b>          |
| <b>EXPRESS AIRCRAFT</b><br>S-90 RG EXPRESS            | Experimental                           | CONTINENTAL IO-550-N<br>310 HP @ 2700 RPM          | PHC-J3YF-1RF<br>F7693DF          | 78.0" TO 76.0"        | A-2295-1P  | <b>1880</b>          |
| <b>EXPRESS AIRCRAFT</b><br>EXPRESS                    | Experimental                           | LYCOMING IO-360-C1C6<br>200 HP @ 2700 RPM          | HC-E2YR-1BF<br>F7666A-2          | 74                    |  | <b>2448</b>          |
| <b>Extra</b><br>EA 300/L                              | SA09920AC<br>Hartzell Propeller, Inc.  | Lycoming AEIO-540-L1B5(D)<br>300 HP @ 2700 RPM     | HC-C3YR-4BN<br>NC8302-7          | 78"                   | 107554F2<br>107554F1<br>107554<br>107507F2<br>107507F1<br>107507 | <b>3610</b>          |

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|--|---|--|--|-----------------------|-----------------|----------------------|
| <b>EXTRA</b><br>300S   | Experimental  | LYCOMING AEIO-540-L1B5<br>300 HP @ 2700 RPM            | HC-C3YR-1A<br>7690C<br>7690E   | 78" NO CUT OFF        | C-3570-P        | 1289                 |
| <b>FAIRCHILD</b><br>24R46  | A706  | RANGER 6-440-C2<br>175 HP @ 2450 RPM                   | HC-12X20-1,-8,-8A,-8B<br>8428<br>8428C   | 84" TO 82.5 "         |                 | 498                  |
| <b>FAIRCHILD</b><br>24R46A                                       | A706  | RANGER 6-440-C5<br>200 HP @ 2450 RPM                   | HC-12X20-8,-8A,-8B<br>8428<br>8428C  | 84" TO 82.5"          |                 | 499                  |
| <b>FAIRCHILD</b><br>M62A (PT-19) PT-19                           | A724  | RANGER 6-440-C2<br>175 HP @ 2450 RPM                   | HC-12X20-1<br>8428-2   | 86" TO 84"per tc      |                 | 500                  |
| <b>FAIRCHILD AIRCRAFT</b><br>SA26-AT MERLIN IIB                  | A5SW  | HONEYWELL TPE331-1-151G<br>665 HP @ 2000 RPM           | HC-B3TN-5C, -5E, -5M<br>T10178-13R<br>T10178B-13R*1<br>T10178N-13R<br>T10178NB-13R*1 | 88.5" NO CUT OFF      | D-3434-1P       | 501                  |
| <b>FAIRCHILD AIRCRAFT</b><br>SA26-T MERLIN IIA                   | A5SW  | PRATT & WHITNEY PT6A-20<br>550 HP @ 2200 RPM           | HC-B3TN-3B<br>T10173E-11<br>T10173NE-11  | 90.5" TO 90.375"      | C-3065-P        | 502                  |
| <b>FAIRCHILD AIRCRAFT</b><br>SA226-AT, SA226-TC METRO, MERLIN IV | A5SW, A8SW  | HONEYWELL TPE331-3U-303G, -304G<br>940 HP @ 2000 RPM   | HC-B3TN-5C, -5E, -5M<br>T10282B  | 102" NO CUT OFF       | D-3434-1P       | 507                  |
| <b>FAIRCHILD AIRCRAFT</b><br>SA226-AT, SA226-TC MERLIN IV        | STC-SA344GL-D<br>GARRETT GENERAL AVIATION<br>SERVICE CO | HONEYWELL TPE331-10UA-501G, -511G<br>940 HP @ 2000 RPM | HC-B3TN-5M<br>T10282NB*6   | 102"                  |                 | 505                  |
| <b>FAIRCHILD AIRCRAFT</b><br>SA226-T(B) MERLIN III               | A5SW  | HONEYWELL TPE-331-10U-502G, -512G<br>900 HP @ 1591 RPM | HC-B4TN-5EL, -5HL, -5KL<br>LT10282AB+2.5<br>LT10282ANB+2.5                           | 106.0" NO CUT OFF     | D-3434-7P       | 508                  |

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|--|--|--|---|-----------------------|------------------------|----------------------|
| <b>FAIRCHILD AIRCRAFT</b><br>SA226-T MERLIN III        | A5SW                                   | HONEYWELL TPE331-3U-303G, -304G<br>840 HP @ 2000 RPM   | HC-B3TN-5C, -5E, -5M<br>T10282DB-4R<br>T10282DNB-4R | 98.0" NO CUT OFF      | D-3434-1P              | <b>506</b>           |
| <b>FAIRCHILD AIRCRAFT</b><br>SA226-T(B) MERLIN III     | A5SW                                   | HONEYWELL TPE-331-10U-501G, -511G<br>900 HP @ 1591 RPM | HC-B4TN-5EL, -5HL, -5KL<br>LT10282AB+2.5            | 106.0 NO CUT OFF      | D-3437-7P<br>D-3437-7P | <b>2547</b>          |
| <b>FAIRCHILD AIRCRAFT</b><br>SA226-TC METRO II         | SA 01462NY<br>HARTZELL PROPELLER       | HONEYWELL TPE331-3, -10<br>940 HP @ 2000 RPM           | HC-E4N-5D<br>D9690<br>D9690B                        | 97.0"-95.0"           | D-5319-P               | <b>1430</b>          |
| <b>FAIRCHILD-HILLER (PILATUS)</b><br>AU-23 PEACEMAKER  | Unknown                                | HONEYWELL TPE331-1-10F<br>665 HP @ 2000 RPM            | HC-B3TN-5M<br>T10282<br>T10282N                     | 102.0"                |                        | <b>593</b>           |
| <b>FALCO</b><br>see AEROMERE                           |  | HP @ RPM   |   |                       |                        | <b>509</b>           |
| <b>FLETCHER</b><br>see PACIFIC AEROSPACE               |  | HP @ RPM   |   |                       |                        | <b>513</b>           |
| <b>FLUG &amp; FAHRZEUGWERKE AG</b><br>AS202/18A BRAVO  | A34EU                                  | LYCOMING AEIO-360-B1F<br>180 HP @ 2700 RPM             | HC-C2YK-1BF<br>F7666A-2                             | 74" TO 72"            | 835-33                 | <b>510</b>           |
| <b>FLUG &amp; FAHRZEUGWERKE AG</b><br>AS202/32TP BRAVO | Unknown                                | ALLISON 250-B17C<br>420 HP @ 2030 RPM                  | HC-B3TF-7, -7A<br>T10173-19R<br>T10173N-19R         | 82.38" TO 80.38"      | 835-39                 | <b>1278</b>          |
| <b>FOUND BROTHERS</b><br>FBA-2C                        | A7EA                                   | LYCOMING O-540-A1C5<br>250 HP @ 2575 RPM               | HC-92WK-1D<br>W8847N                                | 88" NO CUT OFF        | 835-30<br>835-30P      | <b>2809</b>          |
| <b>FOUND BROTHERS</b><br>100 CENTENNIAL                | A13EA                                  | LYCOMING IO-540-G1D5<br>290 HP @ 2575 RPM              | HC-92WK-1D<br>W9350-4.6                             | 88" NO CUT OFF        | 837-3<br>837-4         | <b>514</b>           |

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|--|--|---|---|-----------------------|-----------------------------|----------------------|
| <b>FOUND BROTHERS</b><br>FBA-2C            | A7EA                                       | LYCOMING O-540-A1C5<br>250 HP @ 2575 RPM    | HC-92ZK-1D<br>8847<br>8847N                             | 88" NO CUT OFF        | 835-30P<br>835-30<br>835-6P | <b>515</b>           |
| <b>FOUND BROTHERS</b><br>FBA-2C1 BUSH HAWK | A7EA                                       | LYCOMING IO-540-D4A5<br>260 HP @ 2700 RPM   | HC-C3YR-1RF<br>F8468A-2R                                | 84" TO 78"            | A-2295-1<br>A-2295-1P       | <b>1439</b>          |
| <b>FOUND BROTHERS</b><br>FBA-2C1 BUSH HAWK | A7EA                                       | LYCOMING IO-540-L1C5<br>300 HP @ 2700 RPM   | HC-C3YR-1RF<br>F8068<br>F8068*3<br>F8068+2<br>F8068+2*1 | 82"                   | C-3575-P                    | <b>1687</b>          |
| <b>FRAKES</b><br>see GRUMMAN, NORD         |  | HP @ RPM                                    |   |                       |                             | <b>516</b>           |
| <b>FUJI</b><br>700 COMMANDER 700           | A8PC                                       | LYCOMING T1O-540-R2AD<br>340 HP @ 2500 RPM  | HC-E3YR-2ATF<br>FC8468-5R<br>FC8468B-5R                 | 81" TO 79"            | D-3273-2                    | <b>519</b>           |
| <b>FUJI</b><br>710                         | A8PC                                       | LYCOMING TIGO-541-D1B<br>450 HP @ 2133 RPM  | HC-C3YN-2LDUF<br>FJC9684-3R<br>FJC9684B-3R              | 93" NO CUT OFF        | D-3273-1L                   | <b>520</b>           |
| <b>FUJI</b><br>T-3, LM-2 TRAINER           | Unknown                                    | LYCOMING IGSO-480-A1F6<br>340 HP @ 2182 RPM | HC-83V20-1F, HC-A3V20-1F<br>V9333N-3                    | 90.6"                 |                             | <b>2176</b>          |
| <b>FUJI</b><br>T-3, LM-2 TRAINER           | Unknown                                    | LYCOMING IGSO-480-A1F6<br>340 HP @ 2182 RPM | HC-A3MV20-1F<br>MV9333N-3                               | 90.6"                 |                             | <b>517</b>           |
| <b>FUJI</b><br>KM-2D (T-5)                 | Unknown                                    | ALLISON 250-B17B<br>350 HP @ 2030 RPM       | HC-B3TF-7A<br>T10173N-18*1                              | 83.5"                 | 835-39                      | <b>518</b>           |



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|--|--|--|----------------------------------|-----------------------|-----------------------|----------------------|
| FUJI<br>KM-2D Modified (T-7)   | Unknown                                    | ALLISON 250-B17F<br>450 HP @ 2030 RPM      | HC-B3TF-7A<br>T10173N-18*1       | 83.125"               | 835-39P<br>835-39     | 2818                 |
| <b>GAF - GOVERNMENT AIRCRAFT FACTO</b><br>see AEROSPACE TECHNOLOGIES |  | HP @ RPM                                   |                                  |                       |                       | 1384                 |
| <b>Game Composites</b><br>GB-1 Gamebird                              | Field Approval                             | Lycoming AEIO-580-B1A<br>303 HP @ 2600 RPM | HC-C3YR-4N<br>NC8302-7           | 78"                   | D-7409-3              | 3836                 |
| <b>GENERAL AVIA</b><br>F.20 PEGASO                                   | A38EU                                      | CONTINENTAL IO-520-F<br>300 HP @ 2850 RPM  | HC-C2YF-2CDF<br>FC8475-6*1       | 78" NO CUT OFF        | 836-30                | 523                  |
| <b>GENERAL AVIA</b><br>F.20 PEGASO                                   | Unknown                                    | CONTINENTAL IO-520-K<br>300 HP @ 2850 RPM  | HC-C3YF-2UF<br>FC8468A-8R        | 78"                   | C-4558-3P<br>C-4558-P | 525                  |
| <b>GENERAL AVIA</b><br>F.22-C PINGUINO                               | A75EU                                      | LYCOMING O-360-A1A<br>180 HP @ 2700 RPM    | HC-C2YK-1BF<br>F7666A-4          | 72"                   | A-2298-2P<br>A-2298-2 | 526                  |
| <b>GENERAL AVIA</b><br>F.22-R SPRINT                                 | A75EU                                      | LYCOMING O-320-D1A<br>160 HP @ 2700 RPM    | HC-C2YL-1BF<br>F7663A-4          | 72"                   | A-2298-2<br>A-2298-2P | 1153                 |
| <b>GENERAL DYNAMICS</b><br>28-5ACF                                   | STC-SA1853WE<br>BIRD CORP.                 | LYCOMING GSO-480-B2D6<br>340 HP @ 2182 RPM | HC-83XF-3A                       |                       |                       | 527                  |
| <b>GENERAL DYNAMICS</b><br>28-5ACF                                   | STC-SA1853WE<br>BIRD CORP.                 | LYCOMING GSO-480-B2D6<br>340 HP @ 2182 RPM | HC-83XF-3A                       |                       |                       | 2177                 |
| <b>GENEVATION</b><br>GenPro  | Experimental                               | Lycoming AEIO-580-B1A<br>315 HP @ 2700 RPM | HC-C3YR-4N<br>NC8302-7*1         | 78"                   | D-7409-3              | 3618                 |
| <b>GIPPSLAND</b><br>GA8  | VA503 (Australia)                          | Lycoming IO-540-K1A5<br>300 HP @ 2700 RPM  | HC-C3YR-1RF<br>F8068*1           | 82" - 78"             | C-3575-P<br>C-3575    | 2964                 |

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|--|--|---|-----------------------------------|-----------------------|--------------------|----------------------|
| <b>GIPPSLAND</b><br>GA8-TC 320                                     | VA503 (Australia)                      | LYCOMING TIO-540-AH1A<br>300 HP @ 2500 RPM            | HC-C3YR-1RF<br>F8068*1            | 82                    | C-3575-P<br>C-3575 | <b>2754</b>          |
| <b>GIPPSLAND AERONAUTICS</b><br>GA-10                              | Experimental                           | Rolls Royce 250-B17F/2<br>450 HP @ 2030 RPM           | HC-D3F-7H<br>D9511F-11            | 84 to 82 inches       | 104781P<br>104781  | <b>3245</b>          |
| <b>GIPPSLAND AERONAUTICS</b><br>GA8                                | A00011LA                               | LYCOMING IO-540-K1A5<br>300 HP @ 2700 RPM             | HC-C2YR-1BF<br>F8475R             | 84                    | A-2298-2P          | <b>2497</b>          |
| <b>GIPPSLAND AERONAUTICS</b><br>GA-8                               | Unknown                                | LYCOMING IO-540-K series<br>300 HP @ 2700 RPM         | HC-C3YR-1RF<br>F8468A-2R          | 84                    | C-3575-P           | <b>1207</b>          |
| <b>GIPPSLAND AERONAUTICS</b><br>GA-200C                            | A00001LA                               | LYCOMING IO-540-K1A5<br>300 HP @ 2700 RPM             | HC-C2YR-1BF<br>F8475R             | 84                    | A-2298-2P          | <b>1206</b>          |
| <b>GLASAIR</b><br>SPORTSMAN, GLASTAR Sportsman,<br>Glstar          | Experimental<br>Hartzell Propeller     | Lycoming IO-390, 360<br>210 HP @ 2700 RPM             | HC-C2YR-1NX<br>NG8301-3X1         | 80", 83"              |                    | <b>3183</b>          |
| <b>GLASAIR AVIATION</b><br>SPORTSMAN 2+2                           | Experimental                           | LYCOMING IO-360-M1A<br>180 HP @ 2700 RPM              | HC-C2YR-1BFP<br>F7497<br>F7497*5  | 74" TO 72"            |                    | <b>3556</b>          |
| <b>GLASAIR AVIATION</b><br>SPORTSMAN, GLASTAR Sportsman,<br>Glstar | Experimental                           | LYCOMING (I)O-360, 390<br>210 HP @ 2700 RPM           | HC-C2YR-1BFPX<br>F7497<br>F7497*5 | 74" TO 72"            |                    | <b>2631</b>          |
| <b>GLASAIR AVIATION</b><br>Sportsman 2+2                           | Experimental                           | LYCOMING IO-390<br>210 HP @ 2700 RPM                  | HC-C2YR-1N<br>N7605               | 76"                   |                    | <b>3030</b>          |
| <b>GLASAIR AVIATION</b><br>Super 2SGR                              | Experimental                           | Textron Lycoming (I)O-360 Series<br>180 HP @ 2700 RPM | HC-C2YR-1N<br>N7605-4             | 72"                   |                    | <b>3090</b>          |

# HARTZELL

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| <u>Model/Trade Name:</u>  | <u>Aircraft T.C./STC No/ Modifier:</u> | <u>Engine/ Power:</u>                                    | <u>Propeller/Blade Model(s):</u>                                       | <u>Prop Diameter:</u>  | <u>Spinner:</u>   | <u>IDS Ref. No.:</u> |
|---|--|--|--|------------------------|-------------------|----------------------|
| <b>GLASAIR AVIATION</b><br>SUPER 2SRG GLASAIR                     | Experimental                           | LYCOMING IO-360-B1( ), E1A, F1A<br>180 HP @ 2700 RPM     | HC-C2YR-1BFP<br>F7497<br>F7497-2<br>F7499<br>F7499-2                   | 74" TO 72"             |                   | 2737                 |
| <b>GLASAIR AVIATION</b><br>GS-1 GLASTAR                           | Experimental                           | LYCOMING 320 SERIES<br>160 HP @ 2700 RPM                 | HC-C2YL-1BFX<br>F7663-4  | 72" TO 70"             |                   | 2589                 |
| <b>GLOBE</b><br>GC-1A   | SA2859WE                               | LYCOMING 0320-A3B<br>150 HP @ 2700 RPM                   | HC-C2YL-1BF<br>F7663A-4  | 72"                    | 835-33            | 2461                 |
| <b>GOODYEAR (LOCKHEED MARTIN TACT</b><br>GZ19, 19A GOODYEAR BLIMP | TC1                                    | CONTINENTAL GO-300-F<br>154 HP @ 2400 RPM                | HC-82XF-3L   | 93.2"                  |                   | 2178                 |
| <b>GOODYEAR (LOCKHEED MARTIN TACT</b><br>GZ19, 19A GOODYEAR BLIMP | TC1                                    | CONTINENTAL GO-300-F<br>154 HP @ 2400 RPM                | not procurable   | 93.2"                  |                   | 533                  |
| <b>GOODYEAR (LOCKHEED MARTIN TACT</b><br>GA22A GOODYEAR DRAKE     | 1A12                                   | CONTINENTAL E-225-8<br>225 HP @ 2600 RPM                 | not procurable   | 88" TO 86.5 "          |                   | 535                  |
| <b>GOODYEAR (LOCKHEED MARTIN TACT</b><br>GZ22 GOODYEAR BLIMP      | AS1GL                                  | ALLISON 250-B17C<br>450 HP @ 2030 RPM                    | HC-D3F-7<br>D7023  | 70.0" NO CUT OFF       | D-5253            | 536                  |
| <b>GOODYEAR (LOCKHEED MARTIN)</b><br>GZ20, GZ20A Airship          | TC1                                    | CONTINENTAL IO-360-D<br>210 HP @ 2800 RPM                | BHC-92WF-3LG<br>LW8447A-6R<br>LW8447A-8Q<br>LW8447AN-6R<br>LW8447AN-8Q | 77.6" (7R), 75.6" (8Q) |                   | 534                  |
| <b>GREAT LAKES</b><br>2T-1A-1, 2T-1A-2                            | A18EA                                  | LYCOMING IO-360-B1F6, AEIO-360-B1G6<br>180 HP @ 2700 RPM | HC-C2YK-4F<br>FC7666A-2  | 74.0" NO CUT OFF       | 835-41<br>835-41P | 1281                 |
| <b>GREAT LAKES</b><br>2T-1A-2                                     | Experimental                           | ALLISON 250-B15<br>317 HP @ 2025 RPM                     | HC-B3TF-7A<br>T10173-6<br>T10173N-6                                    | 94.6"                  |                   | 538                  |

| <u>Model/Trade Name:</u>              | <u>Aircraft T.C./STC No/ Modifier:</u> | <u>Engine/ Power:</u>                           | <u>Propeller/Blade Model(s):</u>        | <u>Prop Diameter:</u> | <u>Spinner:</u>    | <u>IDS Ref. No.:</u> |
|---------------------------------------|--|---|---|-----------------------|--------------------|----------------------|
| <b>GREAT LAKES</b><br>2T-1A-2         | Experimental                           | ALLISON 250-B17C<br>420 HP @ 2030 RPM           | HC-A3VF-7                               | 89.6"                 | 835-39P            | 2179                 |
| <b>GREAT LAKES</b><br>2T-1A-2         | Experimental                           | ALLISON 250-B17C<br>420 HP @ 2030 RPM           | HC-A3MVF-7<br>MV10133AN-11              | 89.6"                 | 835-39P            | 539                  |
| <b>GRIFFON AEROSPACE</b><br>LIONHEART | Experimental                           | PRATT & WHITNEY R985<br>450 HP @ 2300 RPM       | HC-B3R30-4<br>R10152-5.5<br>R10152N-5.5 | 95.5" NO CUT OFF      | 836-32PR           | 1643                 |
| <b>GROB</b><br>G-115-C2               | A57EU                                  | LYCOMING O-360-A1F6<br>180 HP @ 2700 RPM        | HC-F2YR-1F<br>F7666A-3R                 | 73"                   | 835-23P            | 1282                 |
| <b>GROB</b><br>G115T                  | Unknown                                | LYCOMING AEIO-540-D4A5<br>260 HP @ 2700 RPM     | HC-C2YR-4CF<br>FC8477A-4*1              | 80"                   | A-2297<br>A-2297-P | 1280                 |
| <b>GROB</b><br>G115TA / G120A         | A57EU/A49CE                            | LYCOMING AEIO-540-D4A5<br>260 HP @ 2700 RPM     | HC-C3YR-4BF<br>FC7663R                  | 78"                   | D-5205<br>D-5205-P | 1155                 |
| <b>GROB</b><br>G120A                  | A49CE                                  | LYCOMING AEIO-540-D4D5<br>260 HP @ 2700 RPM     | HC-C3YR-1RF<br>F7663R                   | 78"                   | C-3570-P<br>C-3570 | 1849                 |
| <b>GROB/E-SYSTEMS</b><br>G520 EGRETT  | A63EU                                  | HONEYWELL TPE331-14F-801L<br>750 HP @ 1540 RPM  | HC-E4P-5<br>E11990K                     | 120" NO CUT OFF       | D-5362             | 540                  |
| <b>GROB/E-SYSTEMS</b><br>G520 EGRETT  | A63EU                                  | HONEYWELL TPE331-14F-801L<br>750 HP @ 1540 RPM  | HC-E4P-5E<br>E11990K                    | 120" NO CUT OFF       | D-5362             | 1446                 |
| <b>GRUMMAN</b><br>S-2 TRACKER         | SA4837NM<br>MARSH AVIATION             | HONEYWELL TPE331-14A-801Z<br>1250 HP @ 1540 RPM | HC-B5MP-5<br>M11276NS<br>M11276NSK      | 115.2" TO 114.7"      | D-1689             | 542                  |
| <b>GRUMMAN</b><br>S-2 TURBO FIRECAT   | H019-DGA (France)<br>CONAIR            | PRATT & WHITNEY PT6A-67AF<br>1424 HP @ 1700 RPM | HC-B5MA-3B<br>M11296NS<br>M11296S       | 115.2" TO 114.7"      | D-5574-P           | 541                  |

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|-------------------------------------|--|---|-------------------------------------|-----------------------|-----------------|----------------------|
| <b>GRUMMAN</b><br>S-2F3AT TRACKER   | T00009LA<br>MARSH AVIATION             | HONEYWELL TPE331-14GR<br>1650 HP @ 1552 RPM | HC-B5MA-5H<br>M11692NS<br>M11692NSK | 118.7"                | E-5760-P        | 1508                 |
| <b>GRUMMAN</b><br>S-2E TRACKER      | Experimental<br>MARSH AVIATION         | HONEYWELL TPE331-15AW<br>1645 HP @ 1390 RPM | HC-E5B-5<br>E12902K                 |                       | D-5597-1        | 1283                 |
| <b>GRUMMAN</b><br>G44 WIDGEON       | FIELD APPROVAL                         | CONTINENTAL IO-520-E<br>285 HP @ 2700 RPM   | PHC-C3YF-2UF<br>FC8468A-6R          | 80.0 TO 78.0          |                 | 2668                 |
| <b>GRUMMAN</b><br>G44, G44A WIDGEON | STC-SA4-64<br>A.C.E. AVIATION          | LYCOMING GO-435-C2B<br>HP @ RPM             | HC-A2X20-2                          |                       |                 | 2381                 |
| <b>GRUMMAN</b><br>G44, G44A WIDGEON | STC-SA4-64<br>A.C.E. AVIATION          | LYCOMING GO-435-C2B<br>HP @ RPM             | HC-A2V20-2<br>V9333N-3              |                       |                 | 2383                 |
| <b>GRUMMAN</b><br>G44, G44A WIDGEON | STC-SA4-64<br>VIKING AIR LTD.          | LYCOMING GO-435-C2B<br>260 HP @ 3400 RPM    | HC-83X20-2A<br>8433                 | 84"                   | 835-10S         | 2380                 |
| <b>GRUMMAN</b><br>G44, G44A WIDGEON | STC-SA4-64<br>A.C.E. AVIATION          | LYCOMING GO-435-C2B<br>HP @ RPM             | HC-A3X20-2<br>8433                  |                       |                 | 2382                 |
| <b>GRUMMAN</b><br>G44, G44A WIDGEON | STC-SA4-64<br>A.C.E. AVIATION          | LYCOMING GO-435-C2B<br>HP @ RPM             | HC-A3V20-2<br>V8433<br>V8433N       |                       |                 | 2384                 |
| <b>GRUMMAN</b><br>G44, G44A WIDGEON | STC-SA4-65, -64<br>VIKING AIR LTD.     | LYCOMING GO-480-B1<br>270 HP @ 3400 RPM     | HC-A3X20-2, HC-83X20-2A<br>8433     | 84" NO CUT OFF        | 835-10S         | 2385                 |
| <b>GRUMMAN</b><br>G44-G44A WIDGEON  | STC-SA4-65, -64<br>VIKING AIR LTD.     | LYCOMING GO-480-B1<br>270 HP @ 3400 RPM     | HC-A3V20-2<br>V8433<br>V8433N       | 84" NO CUT OFF        | 835-10S         | 2386                 |
| <b>GRUMMAN</b><br>G44, G44A WIDGEON | STC-SA4-111<br>VIKING AIR LTD.         | LYCOMING GO-480-C1D6<br>295 HP @ 3400 RPM   | HC-A3X20-2, HC-83X20-2A<br>8433     | 84"                   | 835-10S         | 2378                 |

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|--|--|--|------------------------------------|-----------------------|--------------------|----------------------|
| <b>GRUMMAN</b><br>G44, G44A WIDGEON                    | STC-SA4-111<br>VIKING AIR LTD.         | LYCOMING GO-480-C1D6<br>295 HP @ 3400 RPM  | HC-A3V20-2<br>V8433<br>V8433N      | 84"                   | 835-10S            | 2379                 |
| <b>GRUMMAN</b><br>G44, G44A WIDGEON                    | STC-SA835SO<br>AEROMAR INC.            | LYCOMING GO-480-G2D6<br>295 HP @ 3400 RPM  | HC-A3VF-5R<br>V9333C-3<br>V9333N-3 | 90"                   | C-3043-7           | 2387                 |
| <b>GRUMMAN</b><br>G44, G44A WIDGEON                    | STC-SA2-13<br>JR McDERMOTT CO.         | CONTINENTAL IO-470-D<br>260 HP @ 2625 RPM  | HC-A2XF-2B<br>8433                 | 84"                   | 835-13             | 2374                 |
| <b>GRUMMAN</b><br>G44, G44A WIDGEON                    | STC-SA2-13<br>JR McDERMOTT CO.         | CONTINENTAL O-470-B<br>240 HP @ 2600 RPM   | HC-A2XF-2, HC-82XF-2C<br>8433      | 84"                   | 835-13             | 2375                 |
| <b>GRUMMAN</b><br>G44, G44A WIDGEON                    | STC-SA2-13<br>JR McDERMOTT CO.         | CONTINENTAL IO-470-D<br>260 HP @ 2625 RPM  | HC-A2VF-2B<br>V8433<br>V8433N      | 84"                   | 835-13             | 2376                 |
| <b>GRUMMAN</b><br>G44, G44A WIDGEON                    | Unknown<br>G.J. NEWELL                 | CONTINENTAL IO-520-E<br>300 HP @ 2850 RPM  | PHC-A3VF-2B<br>V7636<br>V7636N     | 76" TO 74"            |                    | 2389                 |
| <b>GRUMMAN (AERO PLANES LLC)</b><br>G21C, D GOOSE      | 4A24                                   | LYCOMING GSO-480-B2D6<br>340 HP @ 2182 RPM | not procurable                     | 93.2" TO 91"          | 836-25P<br>836-26P | 566                  |
| <b>GRUMMAN (GULFSTREAM AERO.)</b><br>G44 WIDGEON       | Experimental<br>WILLIAM GRENIER        | CONTINENTAL IO-520-E<br>285 HP @ 2700 RPM  | HC-C3YF-2UF<br>FC8468-6R*1         | 80.0" TO 78.0"        | C-4558-2P          | 561                  |
| <b>GRUMMAN (GULFSTREAM AERO.)</b><br>G44, G44A WIDGEON | A734                                   | RANGER 6-440-C5<br>200 HP @ 2450 RPM       | HC-12X20-2,-3; -D2X20-3<br>8428    | 84" TO 82.5"          |                    | 551                  |
| <b>GRUMMAN (GULFSTREAM AERO.)</b><br>G44, G44A WIDGEON | A734                                   | RANGER 6-440-C5<br>200 HP @ 2450 RPM       | HC-12X20-8C, HC-D2X20-8<br>8428    | 84.5" TO 82.5"        |                    | 2188                 |

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|--|--|---|--|-----------------------|-----------------|----------------------|
| <b>GRUMMAN (GULFSTREAM AERO.)</b><br>G44, G44A WIDGEON | A734                                   | RANGER 6-440-C5<br>200 HP @ 2450 RPM          | HC-12X20-2, HC-D2X20-3, HC-12X20-3<br>8428     | 84" TO 82.5"          |                 | 2189                 |
| <b>GRUMMAN (GULFSTREAM AERO.)</b><br>G44, G44A WIDGEON | A734                                   | RANGER 6-440-C5<br>200 HP @ 2450 RPM          | HC-12X20-8C, -D2X20-8<br>8428                  | 84.5" TO 82.5"        |                 | 550                  |
| <b>GRUMMAN (GULFSTREAM AERO.)</b><br>G44, G44A WIDGEON | A734                                   | LYCOMING GO-435-C2, -C2B<br>240 HP @ 2182 RPM | not procurable                                 | 93"                   |                 | 545                  |
| <b>GRUMMAN (GULFSTREAM AERO.)</b><br>G44, G44A WIDGEON | A734                                   | LYCOMING GO-435-C2, -C2B<br>240 HP @ 2182 RPM | HC-82X20-2, HC-A2X20-2<br>9333C-3              | 90"                   | 835-1S          | 2180                 |
| <b>GRUMMAN (GULFSTREAM AERO.)</b><br>G44, G44A WIDGEON | A734                                   | LYCOMING GO-435-C2B<br>260 HP @ 2182 RPM      | HC-82X20-2, HC-A2X20-2<br>9333C-3              | 90"                   | 835-1S          | 2182                 |
| <b>GRUMMAN (GULFSTREAM AERO.)</b><br>G44, G44A WIDGEON | A734                                   | LYCOMING GO-435-C2, -C2B<br>240 HP @ 2182 RPM | HC-82V20-2, HC-A2V20-2<br>V9333C-3<br>V9333N-3 | 90"                   | 835-1S          | 2181                 |
| <b>GRUMMAN (GULFSTREAM AERO.)</b><br>G44, G44A WIDGEON | A734                                   | LYCOMING GO-435-C2B<br>260 HP @ 2182 RPM      | HC-82V20-2, HC-A2V20-2<br>V9333C-3<br>V9333N-3 | 90"                   | 835-1S          | 2183                 |
| <b>GRUMMAN (GULFSTREAM AERO.)</b><br>G44, G44A WIDGEON | A734                                   | LYCOMING GO-435-C2, -C2B<br>240 HP @ 2182 RPM | HC-A2MV20-2<br>MV9333N-3                       | 90"                   | 835-1S          | 546                  |
| <b>GRUMMAN (GULFSTREAM AERO.)</b><br>G44, G44A WIDGEON | A734                                   | LYCOMING GO-435-C2B<br>260 HP @ 2182 RPM      | HC-A2MV20-2<br>MV9333N-3                       | 90"                   | 835-1S          | 547                  |
| <b>GRUMMAN (GULFSTREAM AERO.)</b><br>G44, G44A WIDGEON | A734                                   | LYCOMING GO-435-C2B<br>260 HP @ 2182 RPM      | HC-83X20-2, HC-A3X20-2, HC-83X20-2A<br>8433    | 84.6" TO 84"          | 835-10S         | 2184                 |

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|---|--|---|--|-----------------------|-----------------|----------------------|
| GRUMMAN (GULFSTREAM AERO.)<br>G44, G44A WIDGEON | A734                                   | LYCOMING GO-435-C2B<br><br>260 HP @ 2182 RPM      | HC-83V20-2, HC-A3V20-2, HC-83V20-2A<br>V8433<br>V8433N | 84.6" TO 84"          | 835-10S         | 2185                 |
| GRUMMAN (GULFSTREAM AERO.)<br>G44, G44A WIDGEON | A734                                   | LYCOMING GO-435-C2B<br><br>260 HP @ 2182 RPM      | HC-A3MV20-2<br>MV8433N                                 | 84.6" TO 84"          | 835-10S         | 548                  |
| GRUMMAN (GULFSTREAM AERO.)<br>G44, G44A WIDGEON | A734                                   | LYCOMING GO-480-B1, -B1D<br><br>270 HP @ 2182 RPM | HC-83X20-2, HC-A3X20-2, HC-83X20-2A<br>8433            | 84.6" TO 84"          | 835-10S         | 2186                 |
| GRUMMAN (GULFSTREAM AERO.)<br>G44, G44A WIDGEON | A734                                   | LYCOMING GO-480-B1, -B1D<br><br>270 HP @ 2182 RPM | HC-83V20-2, HC-A3V20-2<br>V8433<br>V8433N              | 84.6" TO 84"          | 835-10S         | 2187                 |
| GRUMMAN (GULFSTREAM AERO.)<br>G44, G44A WIDGEON | A734                                   | LYCOMING GO-480-B1, -B1D<br><br>270 HP @ 2182 RPM | HC-A3MV20-2<br>MV8433N                                 | 84.6" TO 84"          | 835-10S         | 549                  |
| GRUMMAN (GULFSTREAM AERO.)<br>G44, G44A WIDGEON | STC-SA4-64<br>VIKING AIR LTD.          | LYCOMING GO-435-C2B<br><br>260 HP @ 2182 RPM      | HC-A2MV20-2<br>MV9333N-3                               | 90.6"                 |                 | 557                  |
| GRUMMAN (GULFSTREAM AERO.)<br>G44, G44A WIDGEON | STC-SA4-65,-64<br>VIKING AIR LTD.      | LYCOMING GO-480-B1<br><br>270 HP @ 2182 RPM       | HC-83X20-2A<br>8433                                    | 84.6" NO CUT OFF      | 835-10S         | 2193                 |
| GRUMMAN (GULFSTREAM AERO.)<br>G44, G44A WIDGEON | STC-SA4-64<br>VIKING AIR LTD.          | LYCOMING GO-435-C2B<br><br>260 HP @ 2182 RPM      | HC-83X20-2A<br>8433                                    | 84.6"                 | 835-10S         | 2192                 |
| GRUMMAN (GULFSTREAM AERO.)<br>G44, G44A WIDGEON | STC-SA4-64<br>VIKING AIR LTD.          | LYCOMING GO-435-C2B<br><br>260 HP @ 2182 RPM      | HC-A3MV20-2<br>MV8433N                                 | 84.6"                 | 835-10S         | 558                  |
| GRUMMAN (GULFSTREAM AERO.)<br>G44, G44A WIDGEON | STC-SA4-65,-64<br>VIKING AIR LTD.      | LYCOMING GO-480-B1<br><br>270 HP @ 2182 RPM       | HC-A3MV20-2<br>MV8433N                                 | 84.6" NO CUT OFF      | 835-10S         | 559                  |
| GRUMMAN (GULFSTREAM AERO.)<br>G44, G44A WIDGEON | STC-SA4-111<br>VIKING AIR LTD.         | LYCOMING GO-480-C1D6<br><br>295 HP @ 2182 RPM     | HC-83X20-2A<br>8433                                    | 84.6"                 | 835-10S         | 2191                 |



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|---|--|---|---|-----------------------|-----------------|----------------------|
| <b>GRUMMAN (GULFSTREAM AERO.)</b><br>G44, G44A WIDGEON                          | STC-SA4-111<br>VIKING AIR LTD.         | LYCOMING GO-480-C1D6<br>295 HP @ 2182 RPM                 | HC-A3MV20-2<br>MV8433N                          | 84.6"                 | 835-10S         | 556                  |
| <b>GRUMMAN (GULFSTREAM AERO.)</b><br>G44, G44A WIDGEON                          | STC-SA835SO<br>AEROMAR INC.            | LYCOMING GO-480-G2D6<br>295 HP @ 2182 RPM                 | HC-A3VF-5R<br>V9333C-3                          | 90.6"                 | C-3043-7        | 2190                 |
| <b>GRUMMAN (GULFSTREAM AERO.)</b><br>G44, G44A WIDGEON                          | STC-SA835SO<br>AEROMAR INC.            | LYCOMING GO-480-G2D6<br>295 HP @ 2182 RPM                 | HC-A3MV-5R<br>MV9333N-3                         | 90.6"                 | C-3043-7        | 554                  |
| <b>GRUMMAN (GULFSTREAM AERO.)</b><br>G44, G44A WIDGEON                          | STC-SA2-13<br>JR McDERMOTT CO.         | CONTINENTAL O-470-B<br>240 HP @ 2600 RPM                  | HC-82XF-2C<br>8433                              | 84.2"                 | 835-13          | 2195                 |
| <b>GRUMMAN (GULFSTREAM AERO.)</b><br>G44, G44A WIDGEON                          | STC-SA2-13<br>JR McDERMOTT CO.         | CONTINENTAL IO-470-D<br>260 HP @ 2625 RPM                 | HC-A2MV-2B<br>MV8433N                           | 84.2"                 | 835-13          | 563                  |
| <b>GRUMMAN (GULFSTREAM AERO.)</b><br>G44, G44A WIDGEON                          | STC-SA2-13<br>JR McDERMOTT CO.         | CONTINENTAL O-470-B<br>240 HP @ 2600 RPM                  | HC-A2MV-2<br>MV8433N                            | 84.2"                 | 835-13          | 564                  |
| <b>GRUMMAN (GULFSTREAM AERO.)</b><br>G44, G44A WIDGEON                          | STC-SA4-2<br>GANDER AIRCRAFT           | LYCOMING R680-E<br>300 HP @ 2300 RPM                      | HC-93Z20-2D1<br>9349-9<br>9349N-9               | 84"                   |                 | 1567                 |
| <b>GRUMMAN (GULFSTREAM AERO.)</b><br>G44, G44A WIDGEON                          | STC-SA4-2<br>GANDER AIRCRAFT           | LYCOMING R680-E<br>300 HP @ 2300 RPM                      | HC-93Z20-2D1<br>9349-5<br>9349N-5               | 88"                   |                 | 555                  |
| <b>GRUMMAN (GULFSTREAM AERO.)</b><br>G44, G44A WIDGEON                          | STC-SA4774NM<br>ACE AVIATION INC.      | LYCOMING TIO-540-J2BD, LTIO-540-J2BD<br>300 HP @ 2575 RPM | HC-C3YR-2UF, -2LUF<br>FC9587A-10<br>FJC9587A-10 | 87"                   |                 | 562                  |
| <b>GRUMMAN (GULFSTREAM AERO.)</b><br>G44, G44A, SCAN 30 (left side)<br>WIDGEON  | SA4774NM<br>A.C.E.AVIATION, INC.       | LYCOMING LTIO-540-J2BD<br>300 HP @ 2575 RPM               | HC-C3YR-2LUF<br>FJC9587A-10                     | 87"                   |                 | 1285                 |
| <b>GRUMMAN (GULFSTREAM AERO.)</b><br>G44, G44A, SCAN 30 (right side)<br>WIDGEON | SA4774NM<br>A.C.E.AVIATION, INC.       | LYCOMING TIO-540-J2BD (RIGHT SIDE)<br>300 HP @ 2575 RPM   | HC-C3YR-2UF<br>FC9587A-10                       | 87"                   |                 | 1286                 |

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|--|--|---|--|-----------------------|------------------------|----------------------|
| <b>GRUMMAN (GULFSTREAM AERO.)</b><br>G44, G44A WIDGEON | Experimental<br>G.J.NEWELL                 | CONTINENTAL IO-520-E<br>300 HP @ 2850 RPM                                 | PHC-A3VF-2B<br>V7636N  | 76.625" TO 74.625"    |                        | 2194                 |
| <b>GRUMMAN (GULFSTREAM AERO.)</b><br>G44, G44A WIDGEON | Experimental<br>G.J.NEWELL                 | CONTINENTAL IO-520-E<br>300 HP @ 2850 RPM                                 | PHC-A3MVf-2B<br>MV7636N  | 76.625" TO 74.625"    |                        | 560                  |
| <b>GRUMMAN (GULFSTREAM AERO.)</b><br>G73 MALLARD       | STC SA2323WE<br>FRAKES                     | PRATT & WHITNEY PT6A-27<br>620 HP @ 2200 RPM                              | HC-B3TN-3DY<br>T10178NB-5                                      | 96.5"                 | C-3065-1P              | 544                  |
| <b>GRUMMAN (GULFSTREAM AERO.)</b><br>G-73 MALLARD      | 226-I (CASAA)<br>AERO ENGINEERS, AUSTRALIA | PRATT & WHITNEY PT6A-34<br>680 HP @ 2200 RPM                              | HC-D4N-3T<br>D9511F-2<br>D9511FK-2                             | 94"                   | D-5319-P               | 1391                 |
| <b>GRUMMAN (MCKINNON)</b><br>G21A GOOSE                | STC-SA1-52<br>HARTZELL PROPELLER           | PRATT & WHITNEY R985 (with 4.5 & 6<br>order dampers)<br>450 HP @ 2300 RPM | HC-B3(P,R,W,Z)30-2EA<br>10152-5.5<br>10152N-5.5<br>R10152N-5.5 | 95.5" NO CUT OFF      | 836-32SPR<br>836-17SPR | 568                  |
| <b>GRUMMAN (MCKINNON)</b><br>G21C, D GOOSE             | 4A24                                       | LYCOMING GSO-480-B2D6<br>340 HP @ 2182 RPM                                | HC-83XF-3A   | 93.2" TO 91"          | 836-25P<br>836-26P     | 2196                 |
| <b>GRUMMAN (MCKINNON)</b><br>G21C, D GOOSE             | 4A24                                       | LYCOMING GSO-480-B2D6<br>340 HP @ 2182 RPM                                | HC-83VF-3A   | 93.2" TO 91"          | 836-25P<br>836-26P     | 2197                 |
| <b>GRUMMAN (MCKINNON)</b><br>G21E, G GOOSE             | 4A24                                       | PRATT & WHITNEY PT6A-20, -27<br>680 HP @ 2200 RPM                         | HC-B3TN-3DY<br>T10178B-5<br>T10178NB-5                         | 96.5" TO 96"          | C-3065-P               | 567                  |
| <b>GRUMMAN (MCKINNON)</b><br>G21G GOOSE                | STC SA2809WE<br>MCKINNON ENTERPRISES       | HONEYWELL TPE331-2UA<br>715 HP @ 2000 RPM                                 | HC-B3TN-5E<br>T10282NSB-6R<br>T10282SB-6R                      | 94.0" MIN             | C-3043-3               | 569                  |
| <b>GRUMMAN G-164</b><br>see SCHWEIZER                  |  | HP @ RPM  |  |                       |                        | 570                  |

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|---------------------------------------|--|--|---|-----------------------|-----------------------|----------------------|
| HAFEI AVIATION INDUSTRY CO.<br>Y11-B  | Unknown                                | CONTINENTAL TSIO-550-A1B<br>350 HP @ 2700 RPM  | PHC-C3YF-2KUF<br>FC8468K-6R                       | 80"                   | C-4558-3              | 576                  |
| HAFEI AVIATION INDUSTRY CO.<br>Y11-B1 | Unknown                                | CONTINENTAL TSIO-550-A1B<br>350 HP @ 2700 RPM  | PHC-C3YF-2KUF<br>FC8468K-6R                       | 80"                   | C-4558-3              | 575                  |
| HAFEI AVIATION INDUSTRY CO.<br>Y12 IV | A00006WI                               | PRATT & WHITNEY PT6A-27<br>620 HP @ 2120 RPM   | HC-B3TN-3B<br>T10173-3<br>T10173B-3<br>T10173N-3  | 97" Minimum           | C-3065-1P<br>C-3065-1 | 1157                 |
| HAFEI AVIATION INDUSTRY CO.<br>Y12 IV | Unknown                                | PRATT & WHITNEY PT6A-27<br>620 HP @ 2200 RPM   | HC-D4N-3N<br>D9511FK                              | 96" TO 95"            | D-630-P               | 1431                 |
| HAFEI AVIATION INDUSTRY CO.<br>Y12E   | A00006WI                               | PRATT & WHITNEY PT6A-135A<br>620 HP @ 1900 RPM | HC-D4N-3N<br>D9511FK                              | 96" TO 95"            | D-630-P               | 1795                 |
| HAFEI AVIATION INDUSTRY CO.<br>Y12F   | UNKNOWN/CHINA                          | PRATT & WHITNEY PT6A-65B<br>1100 HP @ 1700 RPM | HC-B5MP-3D<br>M10876ANS<br>M10876ANSK*5           | 111.2                 | D-3434-8P             | 2585                 |
| HANDLEY PAGE<br>see BAE JETSTREAM     |  | HP @ RPM                                       |   |                       |                       | 133                  |
| HARMON<br>HARMON ROCKET               | Experimental                           | LYCOMING IO-540-C4B5<br>250 HP @ 2575 RPM      | HC-M2YR-1BF<br>F8475J-4                           | 80"-78"               | C-3533<br>C-3533-P    | 1506                 |
| HARMON<br>HARMON ROCKET               | Experimental                           | LYCOMING IO-540-C4B5<br>250 HP @ 2575 RPM      | HC-M2YR-1BF<br>F8475D-2<br>F8475D-4<br>F8475D-4*1 | 82" TO 80"            | C-3533<br>C-3533-P    | 1070                 |

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|--|--|---|--|-----------------------|--|----------------------|
| <b>HAWKER BEEHCRAFT</b><br>36, A36, F33A, V35, V35A, V35B<br>Bonanza     | SA8676SW<br>Western Skyways                | Continental Motors IO-520-B,-BA,-BB<br>285 HP @ 2700 RPM    | PHC-C3YF-1RF<br>F8068                        | 82" to 78"            | A-2295-1<br>A-2295-1P                          | <b>3188</b>          |
| <b>HAWKER BEEHCRAFT</b><br>95-55, 95-(A)(B)55, 95-B55A, 95-B55B<br>Baron | STC-SA02561CH-D<br>Hartzell Propeller      | Teledyne Continental IO-470-L<br>260 HP @ 2625 RPM          | PHC-C3YF-2UF<br>FC7391DB*1                   | 75" to 73.5"          | C-3567-9P<br>C-3567-9                          | <b>3056</b>          |
| <b>HAWKER BEEHCRAFT</b><br>E55 BARON                                     | STC-SA02561CH-D<br>HARTZELL PROPELLER      | TELEDYNE CONTINENTAL IO-520-C, -CB<br>285 HP @ 2700 RPM     | PHC-J3YF-2UF<br>FC7391D                      | 75"- 73.5"            | C-3567-4P                                      | <b>3058</b>          |
| <b>HAWKER BEEHCRAFT</b><br>YT-34, T-34A, T34B MENTOR                     | SA03069CH<br>Aircraft Products Systems     | Continental IO-520-B, -BA, - BB<br>285 HP @ 2700 RPM        | HC-C3YF-1RF<br>F8468A-6R                     | 80"-78"               | A-2295-1P<br>A-2295-1                          | <b>3157</b>          |
| <b>HAWKER BEEHCRAFT</b><br>95-C55, 95-D55, E55 BARON                     | STC-SA02561CH-D<br>Hartzell Propeller Inc. | Teledyne Continental IO-520-C, -CB<br>285 HP @ 2700 RPM     | PHC-C3YF-2UF<br>FC7391D<br>FC7391DB*1        | 75" to 73.5"          | C-3567-1P<br>C-3567-1<br>C-3567-9P<br>C-3567-9 | <b>3057</b>          |
| <b>HAWKER BEEHCRAFT</b><br>95-C55, D55, E55 Baron                        | SA3845SW<br>D'Shannon                      | Continental Motors IO-520-C, -CB<br>285 HP @ 2700 RPM       | PHC-C3YF-2UF<br>FC7391D                      | 75" to 73.5"          | C-3567-1P<br>C-3567-1                          | <b>3113</b>          |
| <b>HAWKER BEEHCRAFT</b><br>200, B200 Raisbeck King Air                   | SA2698NM-S<br>Raisbeck                     | Pratt & Whitney PT6A-41, -42, -52, -61<br>850 HP @ 2000 RPM | HC-D4N-3A<br>D9515K<br>D9515K*1<br>D9515K*2  | 96"                   | D-630-7P                                       | <b>3203</b>          |
| <b>HELIO</b><br>H-391 COURIER  | 1A8  | LYCOMING GO-435-C2<br>260 HP @ 2182 RPM                     | HC-12X20-8, HC-D2X20-8, HC-12X20-8C<br>9333C | 93" TO 91"            | D-164  | <b>2198</b>          |
| <b>HELIO</b><br>H-391 COURIER  | 1A8  | LYCOMING GO-435-C2<br>260 HP @ 2182 RPM                     | HC-12V20-8, HC-D2V20-8<br>V9333C<br>V9333N   | 93" TO 91"            | D-164  | <b>2199</b>          |

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|--|--|--|--|-----------------------|-----------------|----------------------|
| <b>HELIO</b><br>H-391 COURIER                | 1A8                                    | LYCOMING GO-435-C2<br>260 HP @ 2182 RPM                  | HC-D2MV20-8<br>MV9333N   | 93" TO 91"            | D-164           | <b>582</b>           |
| <b>HELIO</b><br>H-391B COURIER               | 1A8                                    | LYCOMING GO-435-C2B, -C2B2, -C2B2-6<br>260 HP @ 2182 RPM | HC-82X20-1A, HC-A2X20-1A, HC-82X20-1B                          | 101" TO 95"           | 835-15          | <b>2200</b>          |
| <b>HELIO</b><br>H-391B COURIER               | 1A8                                    | LYCOMING GO-435-C2B, -C2B2, -C2B2-6<br>260 HP @ 2182 RPM | HC-A2MV20-1A<br>MV10133N                                       | 101" TO 95"           | 835-15          | <b>583</b>           |
| <b>HELIO</b><br>H-395 (L-28A, U-10B) COURIER | 1A8                                    | LYCOMING GO-480-G1D6<br>295 HP @ 2182 RPM                | HC-93Z20-1, -1B1<br>10151C<br>10151C-5<br>10151CN<br>10151CN-5 | 101" TO 95"           | 836-15R         | <b>584</b>           |
| <b>HELIO</b><br>H-395A COURIER               | 1A8                                    | LYCOMING GO-435-C2B2-6<br>260 HP @ 2182 RPM              | HC-82X20-1A, HC-A2X20-1A, HC-A2X20-1B                          | 101" TO 95"           | 835-15          | <b>2201</b>          |
| <b>HELIO</b><br>H-395A COURIER               | 1A8                                    | LYCOMING GO-435-C2B2-6<br>260 HP @ 2182 RPM              | HC-A2MV20-1A<br>MV10133N                                       | 101" TO 95"           | 835-15          | <b>585</b>           |
| <b>HELIO</b><br>HST-550 STALLION             | A4EA                                   | PRATT & WHITNEY PT6A-6A<br>550 HP @ 2200 RPM             | HC-B3TN-3C<br>T10173C<br>T10173CN                              | 101.5" TO 98.8"       | C-3065-P        | <b>590</b>           |
| <b>HELIO</b><br>HST-550A (AU-24A) STALLION   | A4EA                                   | PRATT & WHITNEY PT6A-27<br>680 HP @ 2200 RPM             | HC-B3TN-3D<br>T10178C<br>T10178CN                              | 101.5" TO 98.8"       | C-3065-P        | <b>591</b>           |
| <b>HELIO</b><br>H-250 COURIER                | 1A8                                    | LYCOMING O-540-A1A5<br>250 HP @ 2575 RPM                 | HC-92WK-1D<br>W8847<br>W8847N                                  | 88" TO 86"            | C-2513-3        | <b>579</b>           |

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|---|--|--|--|-----------------------|-----------------------|----------------------|
| <b>HELIO</b><br>H-295, HT-295 (U-10D) COURIER | 1A8  | LYCOMING GO-480-G1D6,G1A6<br>295 HP @ 2182 RPM | HC-B3Z20-1<br>10151C-5<br>10151CN-5      | 96.0" TO 95.0"        | 836-15R               | <b>581</b>           |
| <b>HELIO</b><br>H-295, HT-295 (U-10D) COURIER | 1A8  | LYCOMING GO-480-G1D6,G1A6<br>295 HP @ 2182 RPM | HC-B3W20-1<br>W10151CN-5                 | 96.0" TO 95.0"        | 836-15R               | <b>3825</b>          |
| <b>HELIO</b><br>H-500 TWIN COURIER            | A2EA                                       | LYCOMING O-540-A2B<br>250 HP @ 2575 RPM        | HC-92ZK-2B<br>8447<br>8447N              | 84" TO 82"            | 835-30                | <b>586</b>           |
| <b>HELIO</b><br>H-700 COURIER                 | 1A8  | LYCOMING TIO-540-J2B<br>350 HP @ 2575 RPM      | HC-E3YR-1RF<br>F9587A-10                 | 87"                   | C-3535-1<br>A-2295-1  | <b>587</b>           |
| <b>HELIO</b><br>H-800 COURIER                 | 1A8  | LYCOMING IO-720-A1B<br>400 HP @ 2650 RPM       | HC-C3YR-1RF<br>F8475R                    | 86"                   | A-2295-1P<br>A-2295-1 | <b>589</b>           |
| <b>HINDUSTAN</b><br>HPT 32 TRAINER            | Unknown                                    | LYCOMING AEIO-540-D4B5<br>260 HP @ 2700 RPM    | HC-C2YR-4CF<br>FC8477-4R                 | 80"                   | 836-60P<br>836-60     | <b>594</b>           |
| <b>HOMEBUILT</b><br>BARACUDA                  | Experimental                               | LYCOMING IO-540-T4B5D<br>260 HP @ 2700 RPM     | HC-E3YR-1RF<br>F7663-2Q                  | 76"                   |                       | <b>598</b>           |
| <b>ICA (ROMANIA)</b><br>IAR-823               | Unknown                                    | LYCOMING IO-540-G1D5<br>290 HP @ 2575 RPM      | HC-92WK-1D<br>W9350C-4.6                 | 88                    | 835-30P<br>835-30     | <b>2740</b>          |
| <b>ILYUSHIN</b><br>IL-103                     | A45CE                                      | CONTINENTAL IO-360-ES<br>210 HP @ 2800 RPM     | BHC-C2YF-1BF<br>F8459A-8R<br>F8459A-8R*1 | 76.0" TO 75.0"        | C-3568-P              | <b>1291</b>          |
| <b>INTERCEPTOR</b><br>see PROP JETS INC.      |  | HP @ RPM                                       |  |                       |                       | <b>601</b>           |

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|--|--|---|--|-----------------------|-----------------------|----------------------|
| <b>INTERSTATE AIRCRAFT</b><br>S-1B2 ARCTIC TERN  | A-754                                  | LYCOMING O-320-B3B<br>160 HP @ 2700 RPM           | HC-C2YL-1BF<br>F8468A-4R                       | 80" TO 74"            | A-4203-P              | 1759                 |
| <b>ISRAEL AIRCRAFT INDUSTRIES</b><br>101, 101B ARAVA                                       | A32EU                                  | PRATT & WHITNEY PT6A-27, -36<br>750 HP @ 2200 RPM | HC-B3TN-3D<br>T10282NR<br>T10282NRB<br>T10282R | 102.0"                | C-3065-1P<br>C-3065-1 | 602                  |
| <b>JOBMASTER</b><br>DGA-15P  | STC-SA3-716<br>MAXWELL AIRCRAFT        | PRATT & WHITNEY R985-AN-6<br>450 HP @ 2300 RPM    | HC-B3Z30-2E<br>10152-5.5<br>10152N-5.5         | 96"                   | 836-32SPR             | 603                  |
| <b>KING'S ENGINEERING FELLOWSHIP</b><br>44 ANGEL   | A2WI                                   | LYCOMING IO-540-M1A5, -M1C5<br>300 HP @ 2700 RPM  | HC-E3YR-2ALTF<br>FLC7468<br>FLC7468*1          | 76.0" TO 75.0"        |                       | 605                  |
| <b>KOREA AEROSPACE INDUSTRIES LTD</b><br>KT-1 (Agency for Defense Development)<br>Woongbee | TC-09-001 (Korea)                      | Pratt & Whitney PT6A-62<br>950 HP @ 2000 RPM      | HC-E4N-2D<br>E9512GB-1*3                       | 95"-94"               | D-630-1P<br>D-630-1   | 3816                 |
| <b>KOREA AEROSPACE INDUSTRIES LTD</b><br>KT-1B (Indonesian Air force)<br>WOONGBEE          | Unknown                                | PRATT & WHITNEY PT6A-62<br>950 HP @ 2000 RPM      | HC-E4N-2C<br>E9512CB-1                         | 95"                   | D-630-1<br>D-630-1P   | 2022                 |
| <b>KOREA AEROSPACE INDUSTRIES LTD</b><br>KT-1P (Peruvian Air Force) Woongbee               | TC-09-001 (Korea)                      | Pratt & Whitney PT6A-62<br>950 HP @ 2000 RPM      | HC-E4N-2D<br>E9512GB-1*3                       | 95"-94"               | D-630-1P<br>D-630-1   | 3226                 |
| <b>KOREA AEROSPACE INDUSTRIES LTD</b><br>KT-1S Woongbee                                    | TC-09-001 (Korea)                      | Pratt & Whitney PT6A-62<br>950 HP @ 2000 RPM      | HC-E4N-2D<br>E9512GB-1*3                       | 95"-94"               | D-630-1P<br>D-630-1   | 3615                 |
| <b>KOREA AEROSPACE INDUSTRIES LTD</b><br>KT-1T (Turkish Air Force)                         | TC-09-001 (Korea)                      | PRATT & WHITNEY PT6A-62<br>950 HP @ 2000 RPM      | HC-E4N-2C<br>E9512CB-1*2                       | 95"                   | D-630-1<br>D-630-1P   | 2795                 |

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|--|--|--|--|-----------------------|-------------------------|----------------------|
| <b>KOREA AEROSPACE INDUSTRIES LTD</b><br>KT-1 WOONGBEE | Unknown                                | PRATT & WHITNEY PT6A-62<br>950 HP @ 2000 RPM           | HC-E4N-2<br>E9512CB-1  | 95"                   | D-630-1P<br>D-630-1     | <b>1407</b>          |
| <b>KOREA AEROSPACE INDUSTRY</b><br>KC-100              | Experimental                           | Continental TSIOF-550-K<br>315 HP @ 2500 RPM           | PHC-J3Y1F-1N<br>N7605  | 78"                   | A-2295-13P<br>A-2295-13 | <b>2886</b>          |
| <b>KOREAN AIR AIRCRAFT</b><br>CHK91-A1                 | Unknown                                | LYCOMING IO-360-A1B6<br>200 HP @ 2700 RPM              | HC-C2YK-1BF<br>F7666A-2  | 74" TO 72"            |                         | <b>606</b>           |
| <b>KWAD</b><br>SUPER-V SUPER-V                         | A5IN, 4A29                             | LYCOMING O-360-A1D, -A1A, -A1C<br>180 HP @ 2700 RPM    | HC-92ZK-2B<br>8447-12A   | 71.6" TO 70"          | 835-30<br>835-6         | <b>607</b>           |
| <b>LAKE (REVO)</b><br>LA-4 AMPHIBIAN                   | 1A13                                   | LYCOMING O-360-A1A, -A1D<br>180 HP @ 2700 RPM          | HC-92WK-8L<br>L8447-12A<br>L8447N-12A<br>LW8447-12A<br>LW8447N-12A | 72" TO 70.5"          | 835-30P                 | <b>608</b>           |
| <b>LAKE (REVO)</b><br>LA-4-200 BUCANEER                | 1A13                                   | LYCOMING IO-360-A1B<br>200 HP @ 2700 RPM               | HC-C2YK-1BL(F)<br>FL7666A-2  | 74" TO 72"            |                         | <b>609</b>           |
| <b>LAKE (REVO)</b><br>LA-4-200 BUCANEER                | STC-SA4NE<br>AEROFAB INC               | LYCOMING IO-360-A1B6<br>200 HP @ 2700 RPM              | HC-E2YR-1BLF<br>FL7666A-2  | 74" NO CUT OFF        | 835-50LP<br>835-50L     | <b>612</b>           |
| <b>LAKE (REVO)</b><br>LA-4-200 BUCANEER                | STC-SA7NE<br>AEROFAB INC               | LYCOMING IO-360-A1B6<br>200 HP @ 2700 RPM              | HC-C3YR-1RLF<br>FL7663-8R  | 70"                   |                         | <b>614</b>           |
| <b>LAKE (REVO)</b><br>LA-4-200 BUCANEER                | STC-SA360GL<br>ROBERT W HALDI          | LYCOMING IO-360-(A,C)1(A,B,C),D1A<br>200 HP @ 2700 RPM | HC-C2YK-1BLF<br>FL7666A-4Q   | 72"                   |                         | <b>611</b>           |
| <b>LAKE (REVO)</b><br>LA-4-200 BUCANEER                | STC-SA631CE<br>LAKE 4 SALES CORP.      | LYCOMING IO-360-A1A<br>200 HP @ 2700 RPM               | HC-C2YK-1BL(F)<br>FL7666A-2  | 74"                   |                         | <b>613</b>           |



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|--|--|--|----------------------------------|-----------------------|----------------------------------|----------------------|
| <b>LAKE (REVO)</b><br>LA-4 S/N 345 Amphibian | SA02203SE<br>Edward F. Forner          | Lycoming O-360-A1A<br>180 HP @ 2700 RPM        | HC-C2YK-1BLF<br>FL7666A-4Q       | 74" to 72"            |                                  | <b>3142</b>          |
| <b>LAKE (REVO)</b><br>250 RENEGADE           | 1A13                                   | LYCOMING IO-540-C4B5<br>250 HP @ 2575 RPM      | HC-E3YR-1RLF<br>FL7663D-2Q       | 76" NO CUT OFF        | D-5495-L<br>D-5495LP             | <b>616</b>           |
| <b>LAKE (REVO)</b><br>250 RENEGADE           | 1A13                                   | LYCOMING IO-540-C4B5<br>250 HP @ 2575 RPM      | HC-E3YR-1RLF<br>FL7663D-2Q       | 76" NO CUT OFF        | D-5495-L<br>D-5495LP             | <b>1441</b>          |
| <b>LAKE (REVO)</b><br>250 TURBO RENEGADE     | SA469NE<br>REVO, INC.                  | LYCOMING TIO-540-AA1AD<br>270 HP @ 2575 RPM    | HC-E3YR-1RLF<br>FL7663D-2Q       | 76" NO CUT OFF        | D-5495-L<br>D-5495LP             | <b>1782</b>          |
| <b>LANCAIR</b><br>Evolution Evolution        | Experimental                           | PRATT&WHITNEY PT6A-135A<br>750 HP @ 1900 RPM   | 5D3-N338A2<br>78D01AB            | 82.5"                 | 105951-1P<br>105951-1<br>105951P | <b>3475</b>          |
| <b>LANCAIR</b><br>LANCAIR IV                 | Experimental                           | CONTINENTAL IO-550-G<br>300 HP @ 2700 RPM      | PHC-H3YF-1RF<br>F7490            | 76"                   | D-6841-P                         | <b>1293</b>          |
| <b>LANCAIR</b><br>LANCAIR IV                 | Experimental                           | CONTINENTAL TSIO-550-B,-E<br>350 HP @ 2700 RPM | HC-H3YF-1RF<br>F7693DF           | 76"                   | C-6446-1<br>C-6446-1P            | <b>1883</b>          |
| <b>LANCAIR</b><br>LANCAIR IV                 | Experimental                           | CONTINENTAL TSIO-550-B<br>350 HP @ 2700 RPM    | PHC-H3YF-4BF<br>FC7490           | 76"                   |                                  | <b>1769</b>          |
| <b>LANCAIR</b><br>LANCAIR IV                 | Experimental                           | CONTINENTAL TSIO-550-B<br>350 HP @ 2700 RPM    | PHC-H3YF-1RF<br>F7490            | 76"                   |                                  | <b>1158</b>          |
| <b>LANCAIR</b><br>LANCAIR IV                 | Experimental                           | CONTINENTAL TSIO-550-B<br>350 HP @ 2700 RPM    | HC-H3YF-2UF<br>FC7693DF          | 78" TO 75"            | D-3273-2<br>D-3273-2P            | <b>1841</b>          |

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|--------------------------------|--|--|---------------------------------------|------------------------------|-------------------------|----------------------|
| <b>LANCAIR</b><br>LANCAIR IV   | Experimental                           | PRATT & WHITNEY PT6A-34<br>500 HP @ 2200 RPM | HC-B3TN-3ACX<br>T8290NKX              | 82                           | C-3065-16<br>C-3065-16P | <b>2605</b>          |
| <b>LANCAIR</b><br>LEGACY 540   | Experimental                           | LYCOMING IO-540-V4A5<br>260 HP @ 2700 RPM    | HC-F2YR-1F<br>F7694-4T                | 72"                          | A-2295-P                | <b>1628</b>          |
| <b>LANCAIR</b><br>LEGACY       | Experimental                           | LYCOMING IO-540-K1A5<br>300 HP @ 2700 RPM    | HC-F3YR-1ARF<br>F8468D-14             | 72                           | A-2295-1P               | <b>2469</b>          |
| <b>LANCAIR</b><br>LEGACY 2000  | Experimental                           | CONTINENTAL IO-550-N<br>310 HP @ 2700 RPM    | HC-J3YF-1RF<br>F7391D-3<br>F7391D-3*1 | 72"                          | A-2295-1P               | <b>1898</b>          |
| <b>LANCAIR</b><br>LEGACY 2000  | Experimental                           | CONTINENTAL IO-550-N<br>310 HP @ 2700 RPM    | BHC-J2YF-1BF<br>F7694-4T              | 72"                          | A-2295-P                | <b>1722</b>          |
| <b>LANCAIR</b><br>TURBO LEGACY | Experimental                           | CONTINENTAL TSIO-550-X<br>350 HP @ 2700 RPM  | HC-H3YF-2UFX<br>FC7391D-3X            | 72"                          | D-4578-P<br>C-4558-3P   | <b>2501</b>          |
| <b>LANCAIR</b><br>LEGACY FG    | Experimental                           | LYCOMING IO-390-X<br>210 HP @ 2700 RPM       | HC-F2YR-1FP<br>F7497                  | 74                           | A-2295-P<br>A-2295      | <b>2621</b>          |
| <b>LANCAIR</b><br>LEGACY 2000  | EXPERIMENTAL                           | CONTINENTAL IO-550-N<br>310 HP @ 2700 RPM    | PHC-J3YF-2UF<br>FC7391D-3             | 72 (NO REDUCTION<br>ALLOWED) | C-4558-3P<br>C-4558-3   | <b>2655</b>          |
| <b>LANCAIR</b><br>320 LANCAIR  | Experimental                           | LYCOMING IO-320-B1A<br>160 HP @ 2700 RPM     | HC-F2YL-1F<br>F8468D-14               | 70.0"                        |                         | <b>618</b>           |
| <b>LANCAIR</b><br>360 LANCAIR  | Experimental                           | LYCOMING IO-360<br>200 HP @ 2700 RPM         | HC-F2YR-1F<br>F7666A-4                | 74.0" TO 72.0"               |                         | <b>619</b>           |
| <b>LANCAIR</b><br>360          | Experimental                           | LYCOMING IO-360-B1B<br>180 HP @ 2700 RPM     | HC-F2YR-1F<br>F7068-2                 | 68.0" TO 67.0"               |                         | <b>1193</b>          |

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|--|--|--|--|-----------------------|-------------------------------------|----------------------|
| <b>LANCAIR</b><br>LANCAIR ES                     | Experimental                           | CONTINENTAL IO-550-G, -G2B<br>280 HP @ 2500 RPM                  | PHC-G3YF-1RF<br>F7691                          | 78.0" TO 77.0"        |                                     | <b>3456</b>          |
| <b>LANCAIR</b><br>LANCAIR ES                     | Experimental                           | CONTINENTAL IO-550-G, -G2B<br>300 HP @ 2700 RPM                  | PHC-J3YF-1RF<br>F7691D                         | 78.0" TO 77.0"        |                                     | <b>1159</b>          |
| <b>LANCAIR</b><br>LANCAIR ES                     | Experimental                           | CONTINENTAL IO-550-G, -G2B<br>300 HP @ 2700 RPM                  | PHC-J3YF-1RF<br>F7693DF                        | 78.0" TO 77.0"        | C-6446-1P                           | <b>1958</b>          |
| <b>LANCAIR</b><br>LANCAIR ES                     | Experimental                           | CONTINENTAL IO-550-G, -G2B<br>300 HP @ 2700 RPM                  | PHC-J3YF-1RF<br>F7691                          | 78.0" TO 77.0"        | C-6446-P<br>C-6446                  | <b>1681</b>          |
| <b>LANCAIR</b><br>EVOLUTION EVOLUTION            | EXPERIMENTAL                           | PRATT & WHITNEY PT6A-34<br>560 HP @ 2200 RPM                     | HC-E4N-3NX<br>D8292BX*2<br>D8292BX*3<br>D8292X | 82.5" TO 81.5"        | D-630-1<br>D-630-1P                 | <b>2686</b>          |
| <b>Lavia Argentina S.A.</b><br>PA-25-235 Puelche | Unknown                                | LYCOMING O-540-B4B5<br>235 HP @ 2575 RPM                         | HC-C3YR-1RF<br>F7693F                          | 78" TO 76"            | 835-36P<br>835-36                   | <b>2835</b>          |
| <b>LAVIASA</b><br>PA-25-260 PAWNEE               | 2A8, 2A10                              | LYCOMING O-540-G1A5<br>260 HP @ 2700 RPM                         | HC-C2YK-1BF<br>F8477<br>F8477-1                | 84" TO 83"            |                                     | <b>1553</b>          |
| <b>LOCKHEED</b><br>12A                           | STC-SA4-33<br>HARTZELL PROPELLER       | PRATT & WHITNEY R985 (with 4.5 & 9 dampers)<br>450 HP @ 2300 RPM | HC-(9,B)3(Z,W,P,R)30-2E<br>10152-5.5           | 95.5"                 | 836-32SPR<br>836-17SPR<br>836-16SPR | <b>622</b>           |
| <b>LOCKHEED</b><br>12A                           | STC-SA4-33<br>HARTZELL PROPELLER       | PRATT & WHITNEY R985 (with 4.5 & 9 dampers)<br>450 HP @ 2300 RPM | HC-B3(Z,W)30-2D, -2E<br>10160-6<br>10160N-6    | 95"                   | 836-32SPR                           | <b>623</b>           |

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|---|--|--|--|-----------------------|-----------------------|----------------------|
| LUSCOMBE<br>8B,8C,8D,8E   | A-694                                  | CONTINENTAL A-75-8J, C-85-12; LYCO<br>O-145-B1<br>85 HP @ 2575 RPM   | HA-12UO, HA-12UF<br>7214<br>7214-2<br>7214-2M<br>7214-4<br>7214-4M<br>7214M<br>7414<br>7414M | 74" TO 68"            |                       | 624                  |
| LUSCOMBE<br>11  | STC-SA3-71<br>GRAHAM FLYING            | CONTINENTAL E-185-2<br>185 HP @ 2300 RPM                             | HC-82XF-2, HC-A2XF-2<br>8433-1   | 83" TO 81.5"          |                       | 2202                 |
| LUSCOMBE<br>11  | STC-SA3-71<br>GRAHAM FLYING            | CONTINENTAL E-185-2<br>185 HP @ 2300 RPM                             | HC-A2MVF-2<br>MV8433N-1  | 83" TO 81.5"          |                       | 625                  |
| LUSCOMBE<br>11A   | A-804                                  | CONTINENTAL E-185-2<br>185 HP @ 2300 RPM                             | not procurable   | 83.0" TO 81.5"        |                       | 627                  |
| LUSCOMBE<br>11A   | A-804                                  | CONTINENTAL E-165-2, E-185-2<br>165 HP @ 2050 RPM                    | HC-42XF-2<br>8428-1  | 83.0" TO 81.5"        |                       | 628                  |
| LUSCOMBE<br>11A   | STC-SA3-71<br>GRAHAM FLYING            | CONTINENTAL E-185-2<br>185 HP @ 2300 RPM                             | HC-12X20-7, HC-D2X20-7, HC-12X20-<br>7D<br>8433-1  | 83"                   |                       | 2203                 |
| LUSCOMBE<br>11A   | STC-SA3-71<br>GRAHAM FLYING            | CONTINENTAL E-185-2<br>185 HP @ 2300 RPM                             | HC-D2MV20-7<br>MV8433N-1   | 83"                   |                       | 626                  |
| MAULE<br>M-5-235C; M-6-235; M-7-235( , A, B, C);<br>MX-7-235; MT-7-235; M-8-235 | SA04320CH<br>Hartzell Propeller Inc    | Lycoming O-540-J1A5D, -J3A5; IO-540-<br>W1A5(D)<br>235 HP @ 2400 RPM | HC-C2YR-1N<br>NG8301-3   | 80"                   | A-2298-2P<br>A-2298-2 | 3626                 |
| MAULE<br>M-5-235C; M-6-235; M-7-235( , A, B, C);<br>MX-7-235; MT-7-235; M-8-235 | SA04320CH<br>Hartzell Propeller Inc    | Lycoming O-540-J1A5D, -J3A5; IO-540-<br>W1A5(D)<br>235 HP @ 2400 RPM | HC-C3Y1R-1N<br>NG8301-5  | 80"                   | C-3575-P<br>C-3575    | 3549                 |

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|---|--|---|---------------------------------------|-----------------------|-----------------------|----------------------|
| <b>MAULE</b><br>M-4-180V                                  | 3A23                                   | LYCOMING O-360-C1F<br>180 HP @ 2700 RPM                 | HC-C2YR-1BF<br>F7666A                 | 76" TO 72"            | A-2298-2P             | 2719                 |
| <b>MAULE</b><br>M-4-220C, S, T                            | STC-SA1199NW<br>LI'L RED AERO, INC.    | FRANKLIN 6A-350-C1<br>220 HP @ 2800 RPM                 | HC-C2YF-1BF<br>F8459A-4               | 80.0" TO 76.0"        | A-4203<br>A-4203-P    | 1417                 |
| <b>MAULE</b><br>M-5-180C, M-6-180, MX-7-180               | 3A23                                   | LYCOMING O-360-C1F<br>180 HP @ 2700 RPM                 | HC-C2YR-1BF<br>F7666A                 | 76" TO 72"            | A-2298-2P             | 629                  |
| <b>MAULE</b><br>M-5-200                                   | 3A23                                   | LYCOMING IO-360-J1A6D<br>200 HP @ 2575 RPM              | HC-E2YR-1BF<br>F8467-7R               | 77" TO 76.5"          | A-2298-2P             | 630                  |
| <b>MAULE</b><br>M-5-210TC                                 | 3A23                                   | LYCOMING TO-360-F1A6D<br>210 HP @ 2575 RPM              | HC-E2YR-1BF<br>F8467-7R               | 77" TO 76.5"          | A-2298-2              | 632                  |
| <b>MAULE</b><br>M-5-210TC                                 | 3A23                                   | LYCOMING TO-360-F1A6D<br>210 HP @ 2575 RPM              | HC-E2YR-1BF<br>F8467-7R               | 77" TO 76.5"          | A-2298-2              | 631                  |
| <b>MAULE</b><br>M-5-235C, M-6-235, M(X)-7-235             | 3A23                                   | LYCOMING O-540-J1A5D, IO-540-W1A5D<br>235 HP @ 2400 RPM | HC-C2YR-1BF<br>F8468A-3R<br>F8468A-6R | 81.0" TO 77.0"        | A-2298-2              | 634                  |
| <b>MAULE</b><br>M-5-235C, M-6-235, M(X)7-235, M-7-235B,-C | 3A23                                   | LYCOMING IO-540-W1A5D, IO-540-W1A5<br>235 HP @ 2400 RPM | HC-C3YR-1RF<br>F7693F                 | 78"                   | C-3535-1P             | 1864                 |
| <b>MAULE</b><br>M-7-235                                   | Experimental                           | LYCOMING O-540-B4B5<br>235 HP @ 2575 RPM                | HC-C2YR-1BF<br>F8468A-3R              | 81.0" TO 77.0"        | A-2298-2<br>A-2298-2P | 1219                 |
| <b>MAULE</b><br>M(T)-7-235( )                             | 3A23                                   | LYCOMING O-540-J3A5<br>235 HP @ 2400 RPM                | HC-C2YR-1BF<br>F8477D-6               | 78"                   | A-2298-2              | 1519                 |
| <b>MAULE</b><br>M(T)-7-235( )                             | 3A23                                   | LYCOMING O-540-B4B5<br>235 HP @ 2575 RPM                | HC-C2YR-1BF<br>F8477D-6               | 78"                   | A-2298-2              | 1517                 |

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|---|--|---|---|-----------------------|--------------------|----------------------|
| <b>MAULE</b><br>M(T)-7-235( )                 | 3A23                                       | LYCOMING O-540-J3A5<br>235 HP @ 2400 RPM  | HC-C3YR-1RF<br>F7693F*1                                 | 78" TO 76"            | C-3535-1P          | 1518                 |
| <b>MAULE</b><br>M(T)-7-235( )                 | 3A23                                       | LYCOMING O-540-B4B5<br>235 HP @ 2575 RPM  | HC-C3YR-1RF<br>F7693F*1                                 | 78" TO 76"            | C-3535-1P          | 1516                 |
| <b>MAULE</b><br>M(T)-7-260                    | 3A23                                       | LYCOMING IO-540-V4A5<br>260 HP @ 2700 RPM | HC-C2YR-1BF<br>F8477D-6                                 | 78"                   | A-2298-2           | 1444                 |
| <b>MAULE</b><br>M-7-260, M-7-260C, M(T)-7-260 | 3A23                                       | LYCOMING IO-540-V4A5<br>260 HP @ 2700 RPM | HC-C3YR-1RF<br>F7693F-1<br>F7693F-1*1                   | 77" to 76"            | C-3535-1P          | 1528                 |
| <b>MAULE</b><br>M-7-260, M-7-260C, M(T)-7-260 | 3A23                                       | LYCOMING IO-540-V4A5<br>260 HP @ 2700 RPM | HC-C3YR-1RF<br>F7693F<br>F7693F*1                       | 78" TO 76"            | C-3535-1P          | 1296                 |
| <b>MAULE</b><br>M-7-420                       | STC-SA2661SO<br>MAULE TECHNOLOGIES         | ALLISON 250-B17C<br>420 HP @ 2030 RPM     | HC-B3TF-7A<br>T10173-11R<br>T10173F-11R<br>T10173FN-11R | 90.5" TO 88.0"        | A-3640<br>A-3640-P | 635                  |
| <b>MAULE</b><br>MX (T)-7-420                  | 3A23                                       | ALLISON 250-B17C<br>369 HP @ 2030 RPM     | HC-B3TF-7A<br>T10173F-21R<br>T10173FN-21R               | 80.5" TO 78"          | A-3640-P           | 636                  |
| <b>MCCULLOCH</b><br>J-2                       | H6WE                                       | LYCOMING IO-360<br>180 HP @ 2700 RPM      | HC-C3YR-1RLF<br>FL7663-4R                               | 74"                   |                    | 637                  |
| <b>MCKINNON</b><br>see GRUMMAN                |  | HP @ RPM                                  |   |                       |                    | 638                  |
| <b>MESSERSCHMITT</b><br>207                   | Unknown                                    | LYCOMING O-360-A1A<br>180 HP @ 2700 RPM   | HC-92ZK-8D<br>8447A-12A<br>8447AN-12A                   | 72                    |                    | 1932                 |

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|---|--|---|---|-----------------------|-------------------|----------------------|
| <b>MESSERSCHMITT</b><br>BO209-150FV, RV         | A27EU  | LYCOMING O-320-E1C, -E1F<br>150 HP @ 2700 RPM                       | HC-C2YL-1BF<br>F7663A-6   | 70" NO CUT OFF        |                   | 639                  |
| <b>MESSERSCHMITT</b><br>BO209-160FV, RV         | A27EU  | LYCOMING IO-320-D1A, -D1B<br>160 HP @ 2700 RPM                      | HC-C2YL-1BF<br>F7663A-6   | 70" NO CUT OFF        |                   | 640                  |
| <b>MEYERS</b><br>MAC145                         | 3A1  | CONTINENTAL C-145-2<br>145 HP @ 2700 RPM                            | HA-12UF<br>8032-6   | 74" TO 72.5"          |                   | 641                  |
| <b>MEYERS 200</b><br>see PROP JETS INC.         |  | HP @ RPM  |   |                       |                   | 642                  |
| <b>MICCO</b><br>MAC-145B SP-26                  | 3A1  | LYCOMING IO-540-T4B5<br>260 HP @ 2700 RPM                           | HC-C3YR-1RF<br>F7693F   | 78" TO 76"            | C-3535-1P         | 1614                 |
| <b>Mitsubishi</b><br>MU-2B-(26A,40,36A,60) MU-2 | SA09916AC<br>Intercontinental Jet Service Corp<br>(IJSC) | HONEYWELL TPE-331-(5-252M,10-<br>501M,10-511M)<br>715 HP @ 1591 RPM | HC-E4N-5KFL<br>JE9782SB   | 97.7"                 | 107528P<br>107528 | 3739                 |
| <b>MITSUBISHI</b><br>MU-2B,MU-2B-10 (MU-2B)     | A2PC   | HONEYWELL TPE331-25A, -25AA, -25AB<br>575 HP @ 2000 RPM             | HC-B3TN-5M<br>T10176NS-5<br>T10176NSB-5<br>T10176NSK-5<br>T10176S-5<br>T10176SB-5<br>T10176SK-5 | 96" NO CUT OFF        | C-3043-3          | 643                  |

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|--|--|---|---|-----------------------|------------------------|----------------------|
| MITSUBISHI<br>MU-2B, MU-2B-10 (MU-2B)        | A2PC                                       | HONEYWELL TPE331-25A, -25AA, -25AB<br>575 HP @ 2000 RPM | HC-B3TN-5M<br>T10178-11<br>T10178-11R<br>T10178B-11*1<br>T10178B-11*2<br>T10178B-11R<br>T10178B-11R*1<br>T10178N-11<br>T10178N-11R<br>T10178NB-11*1<br>T10178NB-11*2<br>T10178NB-11R<br>T10178NB-11R*1<br>T10178NSB-11R | 90.5" TO 90"          | C-3043-3P              | 644                  |
| MITSUBISHI<br>MU-2B-15, -20, -30 (MU-2D,F,G) | A2PC                                       | HONEYWELL TPE331-1-151A<br>665 HP @ 2000 RPM            | HC-B3TN-5M<br>T10178-11<br>T10178-11R<br>T10178B-11*1<br>T10178B-11*2<br>T10178B-11R<br>T10178B-11R*1<br>T10178N-11<br>T10178N-11R<br>T10178NB-11*1<br>T10178NB-11*2<br>T10178NB-11R<br>T10178NB-11R*1<br>T10178NSB-11R | 90.5" TO 90"          | C-3043-2               | 645                  |
| MITSUBISHI<br>MU-2B-25A, -26A                | A10SW                                      | HONEYWELL TPE331-5-252M<br>715 HP @ 1591 RPM            | HC-B4TN-5DL, -5GL, -5JL<br>LT10282NSB-5.3R  | 97.7"                 | C-3410-3P<br>C-3410-1P | 1298                 |



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|---|---|--|---|-----------------------|------------------------|----------------------|
| <b>MITSUBISHI</b><br>MU-2B-25, -26, -35, -36 (MU-2K, M, J, L) | A10SW                                       | HONEYWELL TPE331-6-251M<br>665 HP @ 2000 RPM                     | HC-B3TN-5M<br>T10178B-11*1<br>T10178B-11*2<br>T10178B-11R<br>T10178B-11R*1<br>T10178NB-11*1<br>T10178NB-11*2<br>T10178NB-11R<br>T10178NB-11R*1                  | 90.5" TO 90"          | C-3043-3               | <b>647</b>           |
| <b>MITSUBISHI</b><br>MU-2B-25, -26, -35, -36 (MU-2K, M, J, L) | A2PC  | HONEYWELL TPE331-6-251M<br>665 HP @ 2000 RPM                     | HC-B3TN-5M<br>T10178B-11*1<br>T10178B-11*2<br>T10178B-11R<br>T10178B-11R*1<br>T10178NB-11*1<br>T10178NB-11*2<br>T10178NB-11R<br>T10178NB-11R*1<br>T10178NSB-11R | 90.5" TO 90"          | C-3043-3               | <b>646</b>           |
| <b>MITSUBISHI</b><br>MU-2B-25, 26, 35, 36                     | STC SA09565SC<br>INTERCONTINENTAL JET, INC. | HONEYWELL TPE331-10AV-511M<br>665 HP @ 2000 RPM                  | HC-B3TN-5M<br>T10178NSB-11R   | 90.375" TO 89.375"    | C-3043-3P              | <b>1618</b>          |
| <b>MITSUBISHI</b><br>MU-2B-26A, MU-2B-40 (MU-2P)<br>SOLITARE  | A10SW                                       | HONEYWELL TPE331-5-252M, -10-501M, -10-511M<br>665 HP @ 1591 RPM | HC-B4TN-5DL, -5GL<br>LT10282NS-5.3R<br>LT10282NSK-5.3R  | 97.7"                 | C-3410-3P<br>C-3410-1P | <b>1915</b>          |
| <b>MITSUBISHI</b><br>MU-2B-26A, MU-2B-40 (MU-2P)<br>SOLITARE  | A10SW                                       | HONEYWELL TPE331-5-252M, -10-501M, -10-511M<br>665 HP @ 1591 RPM | HC-B4TN-5JL<br>LT10282NSB-5.3R<br>LT10282NSB53R*1   | 97.7"                 | C-3410-3P              | <b>648</b>           |
| <b>MITSUBISHI</b><br>MU-2B-30                                 | STC-SA336GL-D<br>AIRESEARCH AVIATION        | HONEYWELL TPE331-5-252M<br>665 HP @ 1591 RPM                     | HC-B4TN-5DL, -5GL, -5JL<br>LT10282NSB-5.3R  | 97.7"                 | C-3410-3P<br>C-3410-1P | <b>650</b>           |

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|--|--|--|--|-----------------------|-------------------------|----------------------|
| <b>MITSUBISHI</b><br>MU-2B-35A, -36A                         | A10SW                                  | HONEYWELL TPE331-5-252<br>715 HP @ 1591 RPM                      | HC-B4TN-5DL, -5GL, -5JL<br>LT10282NSB-5.3R   | 97.7"                 | C-3410-3P<br>C-3410-1P  | <b>1300</b>          |
| <b>MITSUBISHI</b><br>MU-2B-36A, MU-2B-60 (MU-2N)<br>MARQUISE | A10SW                                  | HONEYWELL TPE331-5-252M, -10-501M, -10-511M<br>715 HP @ 1591 RPM | HC-B4TN-5DL, -5GL, -5JL<br>LT10282NS-5.3R<br>LT10282NSB-5.3R<br>LT10282NSB53R*1<br>LT10282NSK-5.3R | 97.7"                 | C-3410-3P<br>C-3410-1P  | <b>649</b>           |
| <b>MITSUBISHI</b><br>MU-2B-40, -60                           | A10SW                                  | HONEYWELL TPE331-10<br>715 HP @ 1591 RPM                         | HC-B4TN-5DL, -5GL, -5JL<br>LT10282NSB-5.3R   | 97.7"                 | C-3410-3P<br>C-3410-1P  | <b>1299</b>          |
| <b>MONOCOUCPE</b><br>90AL-115                                | STC-SA1017CE<br>MURLIN SMITH           | LYCOMING IO-320-E1A<br>160 HP @ 2700 RPM                         | HC-C2YL-4F<br>FC7663   | 76"                   |                         | <b>651</b>           |
| <b>MOONEY</b><br>M20TN, M20V ACCLAIM                         | 2A3                                    | CONTINENTAL TSIO-550-G<br>280 HP @ 2500 RPM                      | PHC-J3YF-1RF<br>F7498  | 76 to 74              | A-2295-10<br>A-2295-10P | <b>2744</b>          |
| <b>MOONEY</b><br>M20   | 2A3                                    | LYCOMING O-320<br>150 HP @ 2700 RPM                              | HC-82XL-1B, HC-82XL-1, HC-A2XL-1<br>7636D  | 76.2" TO 72"          | 835-30P                 | <b>2204</b>          |
| <b>MOONEY</b><br>M20   | 2A3                                    | LYCOMING O-320<br>150 HP @ 2700 RPM                              | HC-A2VL-1<br>V7636<br>V7636N   | 76.2" TO 72"          | 835-30P                 | <b>2317</b>          |
| <b>MOONEY</b><br>M20   | 2A3                                    | LYCOMING O-320<br>150 HP @ 2700 RPM                              | HC-A2MVL-1<br>MV7636N  | 76.2" TO 72"          | 835-30P                 | <b>652</b>           |
| <b>MOONEY</b><br>M20   | STC-SA320GL<br>JET ENTERPRISES         | LYCOMING IO-360-A1A<br>200 HP @ 2700 RPM                         | HC-C2YK-1BF<br>F7666A-4Q   | 72"                   | 835-20                  | <b>660</b>           |
| <b>MOONEY</b><br>M20TN ACCLAIM                               | SA02482CH<br>MidWest Modifications LLC | CONTINENTAL TSIO-550-G-AP<br>310 HP @ 2700 RPM                   | PHC-J3YF-1N<br>N7605-2   | 76                    | A-2295-10<br>A-2295-10P | <b>2769</b>          |

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|-----------------------------------|--|---|----------------------------------|-----------------------|--|----------------------|
| <b>MOONEY</b><br>M20TN ACCLAIM    | SA02482CH<br>MidWest Modifications LLC | CONTINENTAL TSIO-550-G-AP<br>310 HP @ 2700 RPM  | PHC-J3YF-1N<br>N7605C-2          | 76"                   | A-2295-10P<br>A-2295-10                              | <b>3146</b>          |
| <b>MOONEY</b><br>M20E, M20F       | SA09695AC<br>Alamo Aerospace           | Lycoming IO-390-A3A6<br>210 HP @ 2700 RPM   | HC-C2YR-1BFP<br>F7497            | 74" to 72.5"          | 835-54<br>835-33<br>835-20<br>A-835-54P<br>A-835-33P | <b>2922</b>          |
| <b>MOONEY</b><br>M20E, F, J       | SA09695AC<br>Alamo Aerospace           | Lycoming IO-390-A3A6<br>210 HP @ 2700 RPM   | HC-C3YR-1RF<br>F7282             | 74" to 73"            | A-2295-4P<br>A-2295-4<br>835-47P<br>835-47           | <b>2898</b>          |
| <b>MOONEY</b><br>M20S EAGLE       | SA02988AT<br>PowerLite LLC             | CONTINENTAL IO-550-G<br>280 HP @ 2500 RPM   | PHC-J3YF-1RF<br>F7693DF-2*1      | 78                    | A-2295-10P   | <b>2527</b>          |
| <b>MOONEY</b><br>M20A             | 2A3                                    | LYCOMING O-360-A1A, -A1D<br>180 HP @ 2700 RPM   | HC-92ZK-8D<br>8447-12A           | 71.6" TO 70"          | 835-6<br>835-30P                                     | <b>653</b>           |
| <b>MOONEY</b><br>M20A, B, C, D, G | 2A3                                    | LYCOMING O-360-A1A,-A1D,-A2D<br>180 HP @ 2700 RPM   | HC-C2YR-1BF<br>F7666-2           | 74" TO 72.5"          | 835-33<br>835-20                                     | <b>654</b>           |
| <b>MOONEY</b><br>M20A,B,C,D,G     | 2A3                                    | LYCOMING O-360-A1A, -A1D, -A2D<br>180 HP @ 2700 RPM   | HC-C2YK-1BF<br>F7666A-2          | 74.0" TO 72.5"        | 835-33<br>835-20<br>835-33P                          | <b>1171</b>          |
| <b>MOONEY</b><br>M20C, D, G       | STC-SA4529NM-D<br>HARTZELL PROPELLER   | LYCOMING O-360-A1A, A1D<br>180 HP @ 2700 RPM  | HC-C3YR-1RF<br>F7282             | 74.0" TO 73.0"        | 835-47P<br>835-47                                    | <b>1394</b>          |
| <b>MOONEY</b><br>M20C, D, E, F, G | STC-SA4502NM<br>PAUL E. LOEWEN         | LYCOMING IO-360-A1A, -A1B, -A1B6, -<br>A1B6D (-A1B6 OR -A1B6D, M20E & F)<br>200 HP @ 2700 RPM | HC-C2YK-1B(F)<br>F7666A-2        | 74.0" TO 72.5 "       | 835-33<br>835-20                                     | <b>76</b>            |

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|-------------------------------|--|--|------------------------------------|-----------------------|--|----------------------|
| <b>MOONEY</b><br>M20E,F       | STC-SA4529NM-D<br>HARTZELL PROPELLER         | LYCOMING IO-360-A1A<br>200 HP @ 2700 RPM                             | HC-C3YR-1RF<br>F7282               | 74.0" TO 73.0"        | 835-47P<br>835-47                                | <b>2450</b>          |
| <b>MOONEY</b><br>M20E,F       | 2A3  | LYCOMING IO-360-A1A<br>200 HP @ 2700 RPM                             | HC-C2YR-1BF<br>F7666-2<br>F7666A-2 | 74" TO 72.5"          | 835-33P<br>835-33<br>835-20                      | <b>655</b>           |
| <b>MOONEY</b><br>M20E, F      | SA02414CH-D<br>HARTZELL PROPELLER INC        | LYCOMING IO-360-A1A<br>200 HP @ 2700 RPM                             | HC-C2YR-1BFP<br>F7497*1            | 74                    | 835-54<br>835-58<br>835-58P<br>103585<br>835-54P | <b>2674</b>          |
| <b>MOONEY</b><br>M20E, F      | STC-SA4529NM-D<br>HARTZELL PROPELLER         | LYCOMING IO-360-A1A<br>200 HP @ 2700 RPM                             | HC-C3YR-1RF<br>F7282               | 74.0" TO 73.0"        | 835-47P<br>835-47                                | <b>1393</b>          |
| <b>MOONEY</b><br>M20J         | 2A3  | LYCOMING IO-360-A1B6D, -A3B6D<br>200 HP @ 2700 RPM                   | HC-C2YK-1BF<br>F7666A-3Q           | 73" NO CUT OFF        |  | <b>656</b>           |
| <b>MOONEY</b><br>M20J         | STC-SA4529NM-D<br>HARTZELL PROPELLER         | LYCOMING IO-360-A3B6(D), -A1B6D<br>200 HP @ 2700 RPM                 | HC-C3YR-1RF<br>F7282               | 74.0" TO 73.0"        | A-2295-4P<br>A-2295-4                            | <b>661</b>           |
| <b>MOONEY</b><br>M20J MISSILE | STC-SA00081SE<br>STC/MOONEY LIMITED (ROCKET) | CONTINENTAL IO-550-A<br>300 HP @ 2700 RPM                            | PHC-C3YF-2UF<br>FC7382             | 75.0" TO 73.0"        | D-3273-2P  | <b>662</b>           |
| <b>MOONEY</b><br>M20K         | 2A3  | CONTINENTAL TSIO-360-G1B, GB3,<br>GB4, LB1, MB1<br>210 HP @ 2700 RPM | BHC-J2YF-1BF<br>F8459A-11Q         | 73" NO CUT OFF        | A-2295   | <b>657</b>           |

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|--|--|--|--|-----------------------|--|----------------------|
| <b>MOONEY</b><br>M20K 231, 252             | STC-SA1505GL<br>HARTZELL PROPELLER     | CONTINENTAL TSIO-360-GB<br>210 HP @ 2700 RPM | PHC-J3YF-1RF<br>F7663<br>F7663A-2R<br>F7663A-2R*1<br>F7663A-2R*2<br>F7663AK-2R<br>F7663AK-2R*1 | 76.0" TO 74.0"        | A-2295-2<br>A-2295-1<br>A-2295-1P<br>A-2295-2P | <b>659</b>           |
| <b>MOONEY</b><br>M20L PFM                  | 2A3                                    | PORSCHE PFM-3200#3<br>217 HP @ 2343 RPM      | BHC-J2YF-1C<br>B7421   | 74" NO CUT OFF        | D-5413-P                                       | <b>658</b>           |
| <b>MOONEY</b><br>M20R OVATION              | SA02004CH<br>HARTZELL PROPELLER INC.   | CONTINENTAL IO-550-G<br>280 HP @ 2500 RPM    | PHC-J3YF-1RF<br>F7693DF-2*1  | 76" TO 75"            | A-2295-10<br>A-2295-10P                        | <b>1981</b>          |
| <b>MOONEY</b><br>M20U Ovation Ultra        | 2A3                                    | CONTINENTAL IO-550-G<br>280 HP @ 2500 RPM    | PHC-J3YF-1RF<br>F7693DF-2*1  | 76" TO 75"            | A-2295-10<br>A-2295-10P                        | <b>3598</b>          |
| <b>MOONEY</b><br>M20(R, S) OVATION & EAGLE | SA02193CH<br>Midwest Modifications LLC | CONTINENTAL IO-550-G-AP<br>310 HP @ 2700 RPM | PHC-J3YF-1RF<br>F7693DF-2*1<br>F7693DFB-2  | 76" max, 75" min      | A-2295-10P                                     | <b>2606</b>          |
| <b>MOONEY</b><br>M20(R,S) OVATION & EAGLE  | SA02482CH<br>MidWest Modifications LLC | CONTINENTAL IO-550-G-AP<br>310 HP @ 2700 RPM | PHC-J3YF-1N<br>N7605-2   | 76"                   | A-2295-10<br>A-2295-10P                        | <b>2671</b>          |
| <b>MOONEY</b><br>M20(R,S) OVATION & EAGLE  | SA02482CH<br>MidWest Modifications LLC | CONTINENTAL IO-550-G-AP<br>310 HP @ 2700 RPM | PHC-J3YF-1N<br>N7605C-2  | 76"                   | A-2295-10P<br>A-2295-10                        | <b>3147</b>          |
| <b>MOONEY</b><br>M20TN ACCLAIM             | 2A3                                    | CONTINENTAL TSIO-550-G<br>280 HP @ 2500 RPM  | PHC-J3YF-1RF<br>F7693DF-2*1  | 76 to 75              | A-2295-10P<br>A-2295-10                        | <b>2567</b>          |

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|--|--|--|-------------------------------------|-----------------------|--|----------------------|
| <b>MOONEY</b><br>M22 MUSTANG               | A6SW                                       | LYCOMING TIO-541-A1A<br>310 HP @ 2575 RPM                          | HC-C2YK-1BF<br>F8475-4              | 80" NO CUT OFF        | 835-33   | <b>663</b>           |
| <b>MOONEY</b><br>M20(A-D,G)                | SA02414CH-D<br>HARTZELL PROPELLER INC      | LYCOMING O-360-A1(A,D)<br>180 HP @ 2700 RPM                        | HC-C2YR-1BFP<br>F7497*1             | 74"-72.5"             | 835-58P<br>835-58<br>103585<br>835-54P<br>835-54 | <b>2718</b>          |
| <b>MOONEY</b><br>M20J                      | SA02414CH-D<br>HARTZELL PROPELLER INC      | LYCOMING IO-360-A(1,3)B6D, A3B6<br>200 HP @ 2700 RPM               | HC-C2YR-1BFP<br>F7497*1             | 74"                   | A-2295-5P<br>A-2295-5                            | <b>2720</b>          |
| <b>MOONEY</b><br>M20J                      | SA09695AC<br>Alamo Aerospace               | Lycoming IO-390-A3A6<br>210 HP @ 2700 RPM                          | HC-C2YR-1BFP<br>F7497               | 74" to 72.5"          | A-2295-5<br>A-2295-5P                            | <b>2923</b>          |
| <b>MOONEY</b><br>M20R,S, TN                | SA03024CH<br>Hartzell Propeller Inc        | Continental IO-550-G-PL, IO-550-N, TSIO-550-G<br>310 HP @ 2700 RPM | PHC-J3YF-1RF<br>F7498*1<br>F7498B*1 | 76" to 74"            | A-2295-10P<br>A-2295-10                          | <b>3177</b>          |
| <b>MOONEY</b><br>M20V ACCLAIM Ultra        | 2A3  | CONTINENTAL TSIO-550-G<br>280 HP @ 2500 RPM                        | PHC-J3YF-1RF<br>F7498               | 76 to 74              | A-2295-10<br>A-2295-10P                          | <b>3597</b>          |
| <b>MORANE SAULNIER</b><br>see AEROSPATIALE |  | HP @ RPM   |                                     |                       |  | <b>664</b>           |
| <b>MORAVAN</b><br>242L ZLIN                | A76EU                                      | LYCOMING AEIO-360-A1B6<br>200 HP @ 2700 RPM                        | HC-C3YR-4BF<br>FC6890               | 70" TO 69"            | D-5205-P   | <b>1307</b>          |
| <b>MORAVAN</b><br>Z-42 ZLIN                | Unknown                                    | LYCOMING AIO-320<br>160 HP @ 2700 RPM                              | HC-C2YL-1B<br>F7663A-4              | 72"                   |  | <b>665</b>           |
| <b>MUDRY</b><br>CAP 21                     | UNKNOWN                                    | LYCOMING AEIO-360-A1B<br>200 HP @ 2700 RPM                         | HC-C2YK-4BF<br>FC7666A-2            | 74                    | C-2513-5P<br>C-2513-5                            | <b>2587</b>          |

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| <u>Model/Trade Name:</u>                              | <u>Aircraft T.C./STC No/ Modifier:</u> | <u>Engine/ Power:</u>                                 | <u>Propeller/Blade Model(s):</u>  | <u>Prop Diameter:</u> | <u>Spinner:</u> | <u>IDS Ref. No.:</u> |
|---|--|---|-----------------------------------|-----------------------|-----------------|----------------------|
| <b>MULTITECH (TEMCO)</b><br>D16 TWIN NAVION           | 2A1                                    | LYCOMING O-320-A1A<br>150 HP @ 2700 RPM               | HC-82XL-2, HC-A2XL-2              | 74.2" TO 72.5"        | 835-30          | <b>2205</b>          |
| <b>MULTITECH (TEMCO)</b><br>D16 TWIN NAVION           | 2A1                                    | LYCOMING O-290-D2A<br>140 HP @ 2750 RPM               | HC-82XL-2, HC-A2XL-2              | 74.2" TO 72.5"        | 835-30          | <b>2206</b>          |
| <b>MULTITECH (TEMCO)</b><br>D16 TWIN NAVION           | 2A1                                    | LYCOMING O-290-D2A<br>140 HP @ 2750 RPM               | HC-A2MVL-2<br>MV7636N-2           | 74.2" TO 72.5"        | 835-30          | <b>671</b>           |
| <b>MULTITECH (TEMCO)</b><br>D16 TWIN NAVION           | 2A1                                    | LYCOMING O-320-A1A<br>150 HP @ 2700 RPM               | HC-A2MVL-2<br>MV7636N-2           | 74.2" TO 72.5"        | 835-30          | <b>670</b>           |
| <b>MULTITECH (TEMCO)</b><br>D16A, D16 TWIN NAVION     | 2A1                                    | LYCOMING O-340-A1A<br>170 HP @ 2700 RPM               | HC-82VL-2, HC-A2VL-2<br>V8433N-12 | 72.2" TO 70"          | 835-30          | <b>2207</b>          |
| <b>MULTITECH (TEMCO)</b><br>D16A, D16 TWIN NAVION     | 2A1                                    | LYCOMING O-340-A1A<br>170 HP @ 2700 RPM               | HC-A2MVL-2<br>MV8433N-12          | 72.2" TO 70"          | 835-30          | <b>672</b>           |
| <b>MURPHY AIRCRAFT MFG.</b><br>YUKON                  | Experimental                           | LYCOMING IO-390-X<br>210 HP @ 2700 RPM                | HC-C2YR-1BFP<br>F8477-4           | 80                    | C-3568-P        | <b>2714</b>          |
| <b>MURPHY AIRCRAFT MFG. LTD</b><br>SR2500 SUPER REBEL | Experimental                           | LYCOMING IO-540-D4A5<br>260 HP @ 2700 RPM             | HC-C3YR-1RF<br>F8468A-2R          | 84" TO 76"            | C-3575-P        | <b>1608</b>          |
| <b>MURPHY AIRCRAFT MFG. LTD</b><br>SR2500 SUPER REBEL | Experimental                           | LYCOMING O-540-A4A5<br>250 HP @ 2575 RPM              | HC-C3YR-1RF<br>F8468A-2R          | 84" TO 76"            | C-3575-P        | <b>1626</b>          |
| <b>MURPHY AIRCRAFT MFG. LTD.</b><br>SR2500            | Experimental                           | LYCOMING (I)O-360-(A,B,C) SERIES<br>200 HP @ 2700 RPM | HC-C2YR-1BF<br>F8477-4            | 80"                   | A-2298-2P       | <b>1538</b>          |
| <b>MURPHY AIRCRAFT MFG. LTD.</b><br>SR2500            | Experimental                           | LYCOMING O-540-A4A5<br>250 HP @ 2575 RPM              | HC-C2YR-1BF<br>F8477              | 84"                   | A-2298-2P       | <b>1308</b>          |
| <b>MUSTANG AERONAUTICS</b><br>MUSTANG II              | Experimental                           | LYCOMING IO-320<br>160 HP @ 2700 RPM                  | HC-C2YL-1BF<br>F7663A-4           | 72" TO 70"            | A-2297-P        | <b>2473</b>          |

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|--|--|--|------------------------------------|-----------------------|-----------------|----------------------|
| <b>MUSTANG AERONAUTICS</b><br>MUSTANG II | Experimental                           | LYCOMING IO-320-B1A<br>160 HP @ 2700 RPM     | HC-F2YL-1F<br>F7663A-4<br>F7663D-4 | 72"                   | C-4565          | 1634                 |
| <b>MUSTANG AERONAUTICS</b><br>MUSTANG II | Experimental<br>MUSTANG AERONAUTICS    | LYCOMING IO-360 SERIES<br>200 HP @ 2700 RPM  | HC-C2YK-1BF<br>F7666A-2            | 74"                   | A-2297-P        | 1635                 |
| <b>MXR</b><br>MX-R / MX-S                | EXPERIMENTAL                           | LYCOMING AEIO-540<br>300 HP @ 2700 RPM       | HC-C3YR-1A<br>7690E                | 78" No cut-off        | D-7409          | 2872                 |
| <b>NANCHANG</b><br>N-5                   | Unknown                                | LYCOMING IO-720-D1B<br>400 HP @ 2650 RPM     | HC-C3YR-1RF<br>F8475R              | 86"                   | A-2295-1        | 673                  |
| <b>NARDI</b><br>FN-333 LANE-SIAI RIVIERA | 7A5                                    | CONTINENTAL IO-470-P<br>250 HP @ 2600 RPM    | not procurable                     | 78.6" TO 76"          | 835-11S         | 674                  |
| <b>NARDI</b><br>FN-333 LANE-SIAI RIVIERA | 7A5                                    | CONTINENTAL IO-470-P<br>250 HP @ 2600 RPM    | HC-A2X20-5L, HC-82X20-5L           | 84" TO 81"            | 835-17          | 2208                 |
| <b>NARDI</b><br>FN-333 LANE-SIAI RIVIERA | 7A5                                    | CONTINENTAL IO-470-P<br>250 HP @ 2600 RPM    | HC-A2MV20-5L<br>LMV8433N           | 84" TO 81"            | 835-17          | 675                  |
| <b>NAVION</b><br>NAVION                  | A782                                   | CONTINENTAL E-185-3<br>185 HP @ 2300 RPM     | not procurable                     | 84"                   |                 | 676                  |
| <b>NAVION</b><br>NAVION                  | A782                                   | CONTINENTAL E-185-3, -9<br>205 HP @ 2600 RPM | not procurable                     | 84" TO 82.4"          |                 | 681                  |
| <b>NAVION</b><br>NAVION                  | A782                                   | CONTINENTAL E-185-3, -9<br>205 HP @ 2600 RPM | not procurable                     | 84" TO 82.4"          |                 | 679                  |
| <b>NAVION</b><br>NAVION                  | A782                                   | CONTINENTAL E-185-3, -9<br>185 HP @ 2300 RPM | HC-D2X20-7, HC-D2X20-8<br>8433     | 84" TO 82.4"          |                 | 2299                 |



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|--------------------------|--|--|---|-----------------------|-----------------|----------------------|
| NAVION<br>NAVION         | A782                                   | CONTINENTAL E-185-3, -9<br>185 HP @ 2300 RPM | HC-D2V20-7, HC-D2V20-8<br>V8433<br>V8433N | 84" TO 82.4"          |                 | 2300                 |
| NAVION<br>NAVION         | A782                                   | CONTINENTAL E-185-3, -9<br>185 HP @ 2300 RPM | HC-D2MV20-(7,8)<br>MV8433N                | 84" TO 82.4"          |                 | 1560                 |
| NAVION<br>NAVION         | STC-SA1-635<br>HARTZELL PROPELLER      | CONTINENTAL E-185<br>205 HP @ 2600 RPM       | HC-82X20-4A1, HC-A2X20-4A1<br>8433        | 84" TO 82.5"          | 837-6           | 2215                 |
| NAVION<br>NAVION         | STC-SA1-635<br>HARTZELL PROPELLER      | CONTINENTAL E-185-3, -9<br>205 HP @ 2600 RPM | HC-82X20-4A1, HC-A2X20-4A1<br>8433        | 84" TO 82.5"          | 837-6           | 2216                 |
| NAVION<br>NAVION         | STC-SA1-635<br>HARTZELL PROPELLER      | CONTINENTAL E-185<br>205 HP @ 2600 RPM       | HC-A2MV20-4A1<br>MV8433N                  | 84" TO 82.5"          | 837-6           | 687                  |
| NAVION<br>NAVION         | STC-SA1-635<br>HARTZELL PROPELLER      | CONTINENTAL E-185-3, -9<br>205 HP @ 2600 RPM | HC-A2MV20-4A1<br>MV8433N                  | 84" TO 82.5"          | 837-6           | 688                  |
| NAVION<br>NAVION         | STC-SA1-635<br>HARTZELL PROPELLER      | CONTINENTAL E-225-4<br>224 HP @ 2600 RPM     | HC-82X20-4A1, HC-A2X20-4A1<br>8433        | 84" TO 82.5"          | 837-6           | 2217                 |
| NAVION<br>NAVION         | STC-SA1-635<br>HARTZELL PROPELLER      | CONTINENTAL E-225-4<br>225 HP @ 2650 RPM     | HC-A2X20-4A1<br>8433                      | 84" TO 82.5"          | 837-6           | 2213                 |
| NAVION<br>NAVION         | STC-SA1-635<br>HARTZELL PROPELLER      | CONTINENTAL E-225-4<br>225 HP @ 2650 RPM     | HC-A2V20-4A1<br>V8433                     | 84" TO 82.5"          | 837-6           | 2214                 |
| NAVION<br>NAVION         | STC-SA1-635<br>HARTZELL PROPELLER      | CONTINENTAL E-225-4<br>225 HP @ 2650 RPM     | HC-A2MV20-4A1<br>MV8433N                  | 84" TO 82.5"          | 837-6           | 686                  |
| NAVION<br>NAVION         | STC-SA1-635<br>HARTZELL PROPELLER      | CONTINENTAL E-225-4<br>224 HP @ 2600 RPM     | HC-A2MV20-4A1<br>MV8433N                  | 84" TO 82.5"          | 837-6           | 689                  |

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|----------------------------|--|--|--|-----------------------|-----------------|----------------------|
| NAVION<br>NAVION           | STC-SA4-118                            |  | HC-12X20-7, HC-D2X20-7, HC-12X20-7C                    | 84.0"                 |                 | 2218                 |
|                            | ROBERT DOUTHIT                         | HP @ RPM                                     | 8433   |                       |                 |                      |
| NAVION<br>NAVION           | STC-SA4-118                            |  | HC-12V20-7, HC-D2V20-7, HC12V20-7C                     | 84.0"                 |                 | 2219                 |
|                            | ROBERT DOUTHIT                         | HP @ RPM                                     | V8433<br>V8433N  |                       |                 |                      |
| NAVION<br>NAVION           | STC-SA4-118                            |  | HC-D2MV20-7  | 84.0"                 |                 | 691                  |
|                            | ROBERT DOUTHIT                         | HP @ RPM                                     | MV8433N  |                       |                 |                      |
| NAVION<br>NAVION, NAVION A | A782                                   | CONTINENTAL E-185-3, -9<br>205 HP @ 2600 RPM | HC-12X20-1<br>8428                                     | 84" TO 82.4"          |                 | 678                  |
| NAVION<br>NAVION, NAVION A | A782                                   | CONTINENTAL E-185-3, -9<br>205 HP @ 2600 RPM | HC-12X20-5<br>8428                                     | 84" TO 82.4"          |                 | 680                  |
| NAVION<br>NAVION, NAVION A | A782                                   | CONTINENTAL E-185-3, -9<br>205 HP @ 2600 RPM | HC-12X20-7,-7B,-7C,-8 series<br>8428                   | 84" TO 82.4"          |                 | 683                  |
| NAVION<br>NAVION, NAVION A | A782                                   | CONTINENTAL E-225-4<br>224 HP @ 2600 RPM     | HC-12X20-7, HC-D2X20-7, HC-12X20-7B<br>8433            | 84" TO 82.4"          |                 | 2209                 |
| NAVION<br>NAVION, NAVION A | A782                                   | CONTINENTAL E-225-4<br>224 HP @ 2600 RPM     | HC-12V20-7, HC-D2V20-7, HC-12V20-7B<br>V8433<br>V8433N | 84" TO 82.4"          |                 | 2210                 |
| NAVION<br>NAVION, NAVION A | A782                                   | CONTINENTAL E-225-4<br>224 HP @ 2600 RPM     | HC-D2MV20-7<br>MV8433N                                 | 84" TO 82.4"          |                 | 677                  |
| NAVION<br>NAVION A         | A782                                   | CONTINENTAL E-185-3, -9<br>205 HP @ 2600 RPM | not procurable   | 84" TO 82.4"          |                 | 1569                 |

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|--|--|--|---|-----------------------|-----------------|----------------------|
| NAVION<br>NAVION A                       | A782                                   | CONTINENTAL E-185-3, -9<br>205 HP @ 2600 RPM | not procurable                            | 84" TO 82.4"          |                 | 1568                 |
| NAVION<br>NAVION A                       | A782                                   | CONTINENTAL E-185-3, -9<br>205 HP @ 2600 RPM | HC-D2X20-7, HC-D2X20-8<br>8433            | 84" TO 82.4"          |                 | 2211                 |
| NAVION<br>NAVION A                       | A782                                   | CONTINENTAL E-185-3, -9<br>205 HP @ 2600 RPM | HC-D2V20-7, HC-D2V20-8<br>V8433<br>V8433N | 84" TO 82.4"          |                 | 2212                 |
| NAVION<br>NAVION A                       | A782                                   | CONTINENTAL E-185-3, -9<br>205 HP @ 2600 RPM | HC-D2MV20-(7,8)<br>MV8433N                | 84" TO 82.4"          |                 | 682                  |
| NAVION<br>NAVION B                       | A782                                   | LYCOMING GO-435-C2<br>260 HP @ 2182 RPM      | HC-D2MV20-8<br>MV9333N                    | 93" TO 91.2"          | D-164           | 684                  |
| NAVION<br>NAVION B                       | A782                                   | LYCOMING GO-435-C2<br>260 HP @ 2182 RPM      | HC-D3MV20-8D<br>MV8433N                   | 84.6" TO 84.0"        |                 | 685                  |
| NAVION<br>B                              | STC-SA752WE<br>DELUCA OF CALIFORNIA    | LYCOMING GO-480-B1D<br>270 HP @ 2182 RPM     | HC-83X20-2C1<br>MV9333N-3                 | 90"                   | 835-10S         | 690                  |
| NAVY<br>N3N-3                            | STC-SA4-1313<br>WEST COAST PROP        | PRATT & WHITNEY R985<br>450 HP @ 2300 RPM    | HA-B3Z30-1<br>10160-6<br>10160N-6         | 95.5"                 | 836-16R         | 692                  |
| NEICO<br>see LANCAIR                     |  | HP @ RPM                                     |   |                       |                 | 693                  |
| NEIVA<br>L-42 REGENTE                    | NA                                     | CONTINENTAL IO-360-D<br>210 HP @ 2800 RPM    | BHC-C2YF-1BF<br>F7663                     | 80"                   | 835-23          | 312                  |
| NEW GLASAIR/NEW GLASTAR<br>SPORTSMAN 2+2 | Experimental                           | LYCOMING IO-360-A1F6<br>180 HP @ 2700 RPM    | HC-C2YR-1BF<br>F8477-4<br>F8477-4*3       | 80"                   |                 | 1984                 |

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|---|--|---|--|-----------------------|---|----------------------|
| <b>NEW GLASAIR/NEW GLASTAR</b><br>GS-1 GLASTAR  | Experimental                               | LYCOMING IO-360-B1B<br>180 HP @ 2700 RPM        | HC-F2YR-1F<br>F8477-4  | 80"                   | C-3568-P<br>836-60<br>C-3568<br>836-60P | <b>1960</b>          |
| <b>NEW GLASAIR/NEW GLASTAR</b><br>GS-1 GLASTAR  | Experimental                               | LYCOMING IO-360-B1B<br>180 HP @ 2700 RPM        | HC-C2YR-1BF<br>F8477-4   | 80                    | 836-60P<br>C-3568-P<br>C-3568<br>836-60 | <b>2480</b>          |
| <b>NOMAD</b><br>see AEROSPACE TECHNOLOGIES      |  | HP @ RPM  |  |                       |   | <b>694</b>           |
| <b>NORD</b><br>262 FRAKES MOHAWK (FRAKES)       | STC-SA2369SW<br>FRAKES                     | PRATT & WHITNEY PT6A-45A<br>1120 HP @ 1700 RPM  | HC-B5MP-3(A)<br>M10282A+6<br>M10282AB+6<br>M10282AN+6<br>M10282ANB+6 | 111.3" TO 111.0"      | D-3434-8P                               | <b>695</b>           |
| <b>NORMAN AEROPLANE</b><br>NAC 6 FIELDMASTER    | Unknown                                    | PRATT & WHITNEY PT6A-34AG<br>750 HP @ 2200 RPM  | HC-B3TN-3<br>T10282+4<br>T10282N+4                                   | 106.5"                | C-3065                                  | <b>698</b>           |
| <b>NORMAN AEROPLANE</b><br>NAC 6-65 FIELDMASTER | Unknown<br>AERO NOR TEC                    | PRATT & WHITNEY PT6A-65AG<br>1230 HP @ 1700 RPM | HC-B5MP-3C<br>M10876A<br>M10876AN<br>M10876ANS                       | 111.0" TO 110.7"      | D-3434-8P<br>D-3434-8                   | <b>699</b>           |
| <b>NUVENTURE</b><br>VENTURE                     | Experimental                               | CONTINENTAL IO-550-N6B<br>310 HP @ 2700 RPM     | BHC-C2YF-1BF<br>F7694D-6T  | 70"                   | A-2295-P                                | <b>1831</b>          |
| <b>OSPREY AIRCRAFT</b><br>GP4                   | Experimental                               | LYCOMING IO-360-A1A<br>200 HP @ 2700 RPM        | HC-M2YR-1BF<br>F7666A-2  | 74"                   | C-3568-P<br>C-3568                      | <b>1201</b>          |

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|--|--|--|----------------------------------|-----------------------|--------------------------|----------------------|
| <b>OSPREY AIRCRAFT</b><br>GP4                              | Experimental                           | LYCOMING IO-360-A1A<br>200 HP @ 2700 RPM           | HC-M2YR-1BFPX<br>F7497X          | 74"-72"               | C-3568-P<br>C-3568       | <b>3571</b>          |
| <b>PACIFIC AEROSPACE</b><br>FU24(A)-950/-954               | 3/21E/1 (New Zealand)<br>SUPER AIR LTD | PRATT & WHITNEY PT6A-11AG<br>550 HP @ 2200 RPM     | HC-B3TN-3D<br>T10282N            | 102"                  | C-3065-P<br>C-3065       | <b>1897</b>          |
| <b>PACIFIC AEROSPACE</b><br>750XL P-750 XSTOL              | A50CE                                  | Pratt & Whitney PT6A-34<br>750 HP @ 2006 RPM       | HC-E4N-3P<br>D9900               | 100" Minimum          | D-630-3<br>D-630-3P      | <b>2934</b>          |
| <b>PACIFIC AEROSPACE</b><br>CT4A, CT4B                     | Unknown                                | CONTINENTAL IO-360-D, -H, -HB<br>210 HP @ 2800 RPM | BHC-C2YF-1BF<br>F7663            | 76"                   | 835-23<br>835-44         | <b>701</b>           |
| <b>PACIFIC AEROSPACE</b><br>CT4E                           | Unknown                                | LYCOMING AEIO-540-L1B5<br>300 HP @ 2700 RPM        | HC-C3YR-4BF<br>FC7663-2R*1       | 76"                   | D-5205                   | <b>700</b>           |
| <b>PACIFIC AEROSPACE (FLETCHER)</b><br>FU-24 CRESCO 08-600 | A-11 (NZ)                              | PRATT & WHITNEY PT6A-34 Ag<br>750 HP @ 2200 RPM    | HC-B3TN-3D<br>T10282N            | 102.0"                | C-3065                   | <b>707</b>           |
| <b>PACIFIC AEROSPACE (FLETCHER)</b><br>FU-24, FU-24A       | 4A12                                   | CONTINENTAL O-470-M, -N<br>240 HP @ 2610 RPM       | BHC-92ZF-1D1<br>8847<br>8847N    | 88" NO CUT OFF        | 835-13<br>837-3<br>837-4 | <b>703</b>           |
| <b>PACIFIC AEROSPACE (FLETCHER)</b><br>FU-24, FU-24A       | 4A12                                   | CONTINENTAL O-470-E<br>225 HP @ 2600 RPM           | HC-A2MVF-1A<br>MV8833N           | 88" TO 86"            | 835-13                   | <b>702</b>           |
| <b>PACIFIC AEROSPACE (FLETCHER)</b><br>FU-24-950           | Unknown                                | LYCOMING IO-720-A1A<br>400 HP @ 2650 RPM           | HC-C3YR-1RF<br>F8475R            | 86" TO 80"            | 835-36                   | <b>705</b>           |
| <b>PACIFIC AEROSPACE (FLETCHER)</b><br>FU-24-950, -954     | Unknown                                | LYCOMING IO-720-A1A, A1B<br>400 HP @ 2650 RPM      | HC-C3YR-1RF<br>F8483<br>F8483-2Q | 86" TO 80"            | 835-36                   | <b>706</b>           |

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|--|--|---|---|-----------------------|-----------------------|----------------------|
| <b>PACIFIC AEROSPACE (FLETCHER)</b><br>FU-24-954, FU-24A-954 | A9PC                                   | LYCOMING IO-720-A1A, -A1B<br>400 HP @ 2650 RPM            | HC-C3YR-1RF<br>F8475<br>F8475R                    | 86" TO 84"            |                       | 704                  |
| <b>PACIFIC AEROSPACE LTD.</b><br>750XL P-750 XSTOL           | A50CE                                  | PRATT & WHITNEY PT6A-34<br>750 HP @ 2006 RPM              | HC-B3TN-3D<br>T10282NS+4                          | 106" minimum          | C-3065-1P<br>C-3065-1 | 1743                 |
| <b>PAKISTAN AERONAUTICAL</b><br>MUSHSHAK see AMF PAKISTON    |  | HP @ RPM  |   |                       |                       | 708                  |
| <b>PERFORMANCE AIRCRAFT</b><br>FORMULA GT                    | Experimental                           | LYCOMING IO-540 SERIES<br>300 HP @ 2700 RPM               | HC-C2YK-1BF<br>F8475J-4                           | 78" TO 80"            |                       | 1765                 |
| <b>PIAGGIO</b><br>P-180 (left side) AVANTI                   | A59EU                                  | PRATT & WHITNEY PT6A-66 CTR-ROTATING<br>850 HP @ 1800 RPM | HC-E5N-3A<br>HE8492                               | 86.5                  | D-5527-1P             | 3244                 |
| <b>PIAGGIO</b><br>P-180 (Right Side) AVANTI                  | A59EU                                  | PRATT & WHITNEY PT6A-66<br>850 HP @ 1800 RPM              | HC-E5N-3AL<br>LE8492                              | 86.5"                 | D-5527-1LP            | 3243                 |
| <b>PIAGGIO</b><br>P-136-L1 ROYAL GULL                        | A813                                   | LYCOMING GO-480-B, -B1B, -B1D<br>270 HP @ 2182 RPM        | HC-83X20-2L, HC-A3X20-2L, HC-83X20-2CL            | 84.6" TO 84"          | 835-11S               | 2220                 |
| <b>PIAGGIO</b><br>P-136-L1 ROYAL GULL                        | A813                                   | LYCOMING GO-480-B, -B1B, -B1D<br>270 HP @ 2182 RPM        | HC-83V20-2L, HC-A3V20-2L, HC-83V20-2CL<br>LV8433N | 84.6" TO 84"          | 835-11S               | 2221                 |
| <b>PIAGGIO</b><br>P-136-L1 ROYAL GULL                        | A813                                   | LYCOMING GO-480-B, -B1B, -B1D<br>270 HP @ 2182 RPM        | HC-A3MV20-2L<br>LMV8433N                          | 84.6" TO 84"          | 835-11S               | 712                  |
| <b>PIAGGIO</b><br>P-136-L1 ROYAL GULL                        | Unknown                                | LYCOMING GO-480-G1D6<br>HP @ RPM                          | HC-A3X20-2L                                       |                       |                       | 2390                 |
| <b>PIAGGIO</b><br>P-136-L1 ROYAL GULL                        | Unknown                                | LYCOMING GO-480-G1D6<br>HP @ RPM                          | HC-A3V20-2L<br>LV8433N                            |                       |                       | 2391                 |

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| <b>PIAGGIO</b><br>P-136-L2 ROYAL GULL | A-813                                  | LYCOMING GSO-480-A1A6<br><br>340 HP @ 2182 RPM                    | HC-83X20-2CL, HC-83X20-2L, HC-A3X20-2L               | 88" TO 87"            | 835-11S         | <b>2222</b>          |
| <b>PIAGGIO</b><br>P-136-L2 ROYAL GULL | A-813                                  | LYCOMING GSO-480-A1A6<br><br>340 HP @ 2182 RPM                    | HC-A3V20-2CL, HC-A3V20-2L<br>LV9333N<br>LV9333N-5    | 88" TO 87"            | 835-11S         | <b>2318</b>          |
| <b>PIAGGIO</b><br>P-136-L2 ROYAL GULL | A-813                                  | LYCOMING GSO-480-A1A6<br><br>340 HP @ 2182 RPM                    | HC-A3MV20-2L<br>LMV9333N-5                           | 88" TO 87"            | 835-11S         | <b>713</b>           |
| <b>PIAGGIO</b><br>P-136-L2 ROYAL GULL | SA5944NM                               | LYCOMING GSO-480-B2C6<br><br>HP @ RPM                             | HC-A3VF-5AL<br>LV9333N-5                             |                       |                 | <b>2392</b>          |
| <b>PIAGGIO</b><br>P-136-L2 ROYAL GULL | Unknown                                | LYCOMING GSO-480-B2C6<br><br>340 HP @ 2182 RPM                    | HC-83XF-3AL  | 88" TO 87"            | 835-39          | <b>2304</b>          |
| <b>PIAGGIO</b><br>P-136-L2 ROYAL GULL | Unknown                                | LYCOMING GSO-480-B2C6<br><br>340 HP @ 2182 RPM                    | HC-A3MVF-5AL<br>LMV9333N-5                           | 88" TO 87"            | 835-39          | <b>1582</b>          |
| <b>PIAGGIO</b><br>P-149D              | German<br><br>HOFFMANN                 | LYCOMING GO-480-G1A6,-G1D6, IGO-480-A1B6<br><br>295 HP @ 2182 RPM | HC-83V20-1F, HC-A3V20-1F<br><br>V9333C-3<br>V9333N-3 | 90.625"               | 837-17          | <b>2223</b>          |
| <b>PIAGGIO</b><br>P-149D              | German<br><br>HOFFMANN                 | LYCOMING GO-480-G1A6,-G1D6, IGO-480-A1B6<br><br>295 HP @ 2182 RPM | HC-A3MV20-1F<br><br>MV9333N-3                        | 90.625"               | 837-17          | <b>714</b>           |
| <b>PIAGGIO</b><br>P-149D              | Unknown<br>HOFFMANN                    | LYCOMING GO-480-B1A6<br><br>270 HP @ 2182 RPM                     | HC-83X20-1D, HC-A3X20-1D<br>8433                     |                       | 837-17          | <b>2295</b>          |
| <b>PIAGGIO</b><br>P-149D              | Unknown<br>HOFFMANN                    | LYCOMING GO-480-B1A6<br><br>270 HP @ 2182 RPM                     | HC-83V20-1D, HC-A3V20-1D<br>V8433<br>V8433N          |                       | 837-17          | <b>2296</b>          |

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|--|--|--|--|-----------------------|---|----------------------|
| <b>PIAGGIO</b><br>P-149D                   | Unknown<br>HOFFMANN                        | LYCOMING GO-480-B1A6<br>270 HP @ 2182 RPM                    | HC-A3MV20-1D<br>MV8433N                      |                       | 837-17                                      | 1054                 |
| <b>PIAGGIO</b><br>P.166 DP1 ROYAL GULL     | EASA A.384                                 | PRATT&WHITNEY PT6A-121<br>615 HP @ 1900 RPM                  | HC-B3TN-3DL<br>LT10282-9.5R<br>LT10282N-9.5R | 93.0" - 91.0"         | D-6929                                      | 1644                 |
| <b>PIAGGIO</b><br>P-166 ROYAL GULL         | 7A4  | LYCOMING GSO-480-B1C6<br>340 HP @ 2182 RPM                   | HC-A3X20-2CL, HC-83X20-2CL                   | 93.6" TO 92"          | 835-11S                                     | 2224                 |
| <b>PIAGGIO</b><br>P-166 ROYAL GULL         | 7A4  | LYCOMING GSO-480-B1C6<br>340 HP @ 2182 RPM                   | HC-83V20-2CL<br>LV9333N                      | 93.6" TO 92"          | 835-11S                                     | 2319                 |
| <b>PIAGGIO</b><br>P-166 ROYAL GULL         | 7A4  | LYCOMING GSO-480-B1C6<br>340 HP @ 2182 RPM                   | HC-A3MV20-2L<br>LMV9333N                     | 93.6" TO 92"          | 835-11S                                     | 715                  |
| <b>PIAGGIO</b><br>P-166 ROYAL GULL         | Unknown                                    | LYCOMING GSO-480<br>340 HP @ 2182 RPM                        | HC-83VF-5AL, HC-A3VF-5AL                     |                       |   | 2225                 |
| <b>PIAGGIO</b><br>P-166 ROYAL GULL         | Unknown                                    | LYCOMING GSO-480<br>340 HP @ 2182 RPM                        | HC-A3MV-5AL<br>LMV9333N-5                    |                       |   | 717                  |
| <b>PIAGGIO</b><br>P-166B, C ROYAL GULL     | 7A4  | LYCOMING IGSO-540-A1C<br>380 HP @ 2182 RPM                   | HC-B3Z30-2BL<br>L10151-8<br>L10151N-8        | 93.5" TO 92"          | 836-32SPRL                                  | 716                  |
| <b>PIAGGIO</b><br>P.166 DL3 ROYAL GULL     | 7A4, EASA A.384                            | LYCOMING LTP-101-600, -600A-1, -600A-1A<br>599 HP @ 1950 RPM | HC-B3TN-3DL<br>LT10282-9.5R<br>LT10282N-9.5R | 93.0" TO 91.0"        | D-4033-L                                    | 718                  |
| <b>PIAGGIO</b><br>P-180 (left side) AVANTI | A59EU                                      | PRATT & WHITNEY PT6A-66 CTR-ROTATING<br>850 HP @ 2000 RPM    | HC-E5N-3<br>HE8218                           | 85" TO 84.5"          | D-5527-1P<br>D-5527<br>D-5527-P<br>D-5527-1 | 719                  |



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|---|--|---|---|-----------------------|---|----------------------|
| <b>PIAGGIO</b><br>P-180 (right side) AVANTI   | A59EU                                  | PRATT & WHITNEY PT6A-66<br>850 HP @ 2000 RPM              | HC-E5N-3L<br>LE8218                               | 85" TO 84.5"          | D-5527-1LP<br>D-5527L<br>D-5527-LP<br>D-5527-1L | <b>720</b>           |
| <b>PIAGGIO</b><br>P-180 (left side) AVANTI  | A59EU                                  | PRATT & WHITNEY PT6A-66 CTR-ROTATING<br>850 HP @ 2000 RPM | HC-E5N-3A<br>HE8218<br>HE8218*1                   | 85" TO 84.5"          | D-5527-1P<br>D-5527-1                           | <b>1189</b>          |
| <b>PIAGGIO</b><br>P-180 (right side) AVANTI   | A59EU                                  | PRATT & WHITNEY PT6A-66<br>850 HP @ 2000 RPM              | HC-E5N-3AL<br>LE8218                              | 85" TO 84.5"          | D-5527-1LP<br>D-5527-1L                         | <b>1190</b>          |
| <b>PILATUS</b><br>PC-12, PC-12/45, PC-12/47, PC-12/47E up to and including S/N 1575 | SA03466CH<br>Hartzell Propeller Inc.   | PRATT & WHITNEY PT6A-67B, PT6A-67P<br>1200 HP @ 1700 RPM  | HC-E5A-3A<br>NC10245B<br>NC10245B*1<br>NC10245B*4 | 105"                  | 105820P<br>105820                               | <b>3392</b>          |
| <b>PILATUS</b><br>PC-12/47E   | A78EU                                  | PRATT & WHITNEY PT6A-67P<br>1200 HP @ 1700 RPM            | HC-E5A-3A<br>NC10245B*1                           | 105"                  | 105820P<br>105820                               | <b>3391</b>          |
| <b>PILATUS</b><br>PC-12/47E   | A78EU                                  | PRATT & WHITNEY PT6E-67XP<br>1200 HP @ 1700 RPM           | HC-E5A-31A<br>NC10245B*5                          | 105"                  | 105820P<br>105820                               | <b>3666</b>          |
| <b>PILATUS</b><br>PC-6/350; PC-6/350-H1, -H2 PORTER                                 | 7A15                                   | LYCOMING IGO-540-A1A<br>350 HP @ 2182 RPM                 | HC-B3W30-2B<br>W9349N+.5                          | 93.5" NO CUT OFF      | 836-32SPR                                       | <b>3236</b>          |
| <b>PILATUS</b><br>PC-3  | Unknown                                | LYCOMING GO-435-C2A<br>260 HP @ 2182 RPM                  | HC-83X20-2A, HC-A3X20-2, HC-A3X20-2A<br>8433      | 84.6"                 | 835-10S   | <b>2226</b>          |

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|---|--|--|--|-----------------------|-----------------|----------------------|
| <b>PILATUS</b><br>PC-3                              | Unknown                                | LYCOMING GO-435-C2A<br><br>260 HP @ 2182 RPM   | HC-83V20-2A, HC-A3V20-2, HC-A3V20-2A<br><br>V8433<br>V8433N  | 84.6"                 | 835-10S         | 2227                 |
| <b>PILATUS</b><br>PC-3                              | Unknown                                | LYCOMING GO-435-C2A<br><br>260 HP @ 2182 RPM   | HC-A3MV20-2<br><br>MV8433N                                   | 84.6"                 | 835-10S         | 721                  |
| <b>PILATUS</b><br>PC-4                              | Unknown                                | LYCOMING GO-435-C2A<br><br>HP @ RPM            | HC-A3X20-2<br><br>8433                                       |                       |                 | 2393                 |
| <b>PILATUS</b><br>PC-4                              | Unknown                                | LYCOMING GO-435-C2A<br><br>HP @ RPM            | HC-A3V20-2<br><br>V8433<br>V8433N                            |                       |                 | 2394                 |
| <b>PILATUS</b><br>PC-6; PC-6-H1, -H2 PORTER         | 7A15                                   | LYCOMING GSO-480-B1A6<br><br>340 HP @ 2182 RPM | HC-83X20-1, HC-83X20-1B, HC-A3X20-1B<br><br>9333C            | 93.6" TO 88"          | 836-15          | 2228                 |
| <b>PILATUS</b><br>PC-6; PC-6-H1, -H2 PORTER         | 7A15                                   | LYCOMING GSO-480-B1A6<br><br>340 HP @ 2182 RPM | HC-83X20-1D, HC-A3X20-1D<br><br>9333C                        | 93.6" TO 88"          | 836-15          | 2229                 |
| <b>PILATUS</b><br>PC-6; PC-6-H1, -H2 PORTER         | 7A15                                   | LYCOMING GSO-480-B1A6<br><br>340 HP @ 2182 RPM | HC-83V20-1D, HC-A3V20-1D<br><br>V9333C<br>V9333N             | 93.6" TO 88"          | 836-15          | 2231                 |
| <b>PILATUS</b><br>PC-6; PC-6-H1, -H2 PORTER         | 7A15                                   | LYCOMING GSO-480-B1A6<br><br>340 HP @ 2182 RPM | HC-83V20-1, HC-83V20-1B, HC-A3V20-1B<br><br>V9333C<br>V9333N | 93.6" TO 88"          | 836-15          | 2230                 |
| <b>PILATUS</b><br>PC-6; PC-6-H1, -H2 PORTER         | 7A15                                   | LYCOMING GSO-480-B1A6<br><br>340 HP @ 2182 RPM | HC-A3MV20-1B, 1D<br><br>MV9333N                              | 93.6" TO 88"          | 836-15          | 722                  |
| <b>PILATUS</b><br>PC-6/350; PC-6/350-H1, -H2 PORTER | 7A15                                   | LYCOMING IGO-540-A1A<br><br>350 HP @ 2182 RPM  | HC-B3Z30-2B<br><br>9349N+1/2                                 | 93.5" NO CUT OFF      | 836-32SPR       | 723                  |

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|---|--|--|---|-----------------------|--------------------|----------------------|
| <b>PILATUS</b><br>PC-6/A-H2 TURBO PORTER                  | STC-SA273EA<br>STYLES AVIATION         | PRATT & WHITNEY PT6A<br>HP @ RPM                                 | HC-B3TN-3B<br>T10173N   | 101.5"                | C-3065<br>C-3065-P | 728                  |
| <b>PILATUS</b><br>PC-6/B-H2, PC-6/B1-H2 TURBO PORTER      | 7A15                                   | PRATT & WHITNEY PT6A-6A, -20<br>550 HP @ 2200 RPM                | HC-B3TN-3C<br>T10173C   | 101.5" TO 99"         | C-3065<br>C-3065-P | 724                  |
| <b>PILATUS</b><br>PC-6/B2-H2 TURBO PORTER                 | 7A15                                   | PRATT & WHITNEY PT6A-27<br>550 HP @ 2200 RPM                     | HC-B3TN-3D<br>T10173C<br>T10173CK<br>T10173CN<br>T10173CNK<br>T10178C<br>T10178CK<br>T10178CN | 101.5" TO 99"         | C-3065<br>C-3065-P | 725                  |
| <b>PILATUS</b><br>PC-6/B2-H4 TURBO PORTER                 | 7A15                                   | PRATT & WHITNEY PT6A-27<br>550 HP @ 2000 RPM                     | HC-B3TN-3D<br>T10178CNR<br>T10178CNRK<br>T10178CR   | 101.5" TO 99"         | C-3065-P<br>C-3065 | 1839                 |
| <b>PILATUS</b><br>PC-6/B,B1-H2 TURBO PORTER               | STC-SA614EA<br>STYLES AVIATION         | PRATT & WHITNEY PT6A-27<br>680 HP @ 2200 RPM                     | HC-B3TN-3D<br>T10178C   | 101.5"                | C-3065<br>C-3065-P | 731                  |
| <b>PILATUS</b><br>PC-6/B1-H2, /B2-H2, /B2-H4 TURBO PORTER | STC-SA377CH<br>HARTZELL PROPELLER      | PRATT & WHITNEY PT6A-20, -27, B2-H2 & B2-H4<br>550 HP @ 2200 RPM | HC-D4N-3P<br>D9511F<br>D9511F*2<br>D9511FK*3  | 96.0" TO 95.0"        | D-630-P            | 1161                 |
| <b>PILATUS</b><br>PC-6/B1-H2 TURBO PORTER                 | STC-SA545EA<br>STYLES AVIATION         | HP @ RPM   | HC-B3TN-3D<br>T10178C   | 101.5"                | C-3065<br>C-3065-P | 730                  |

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|--|--|--|--|-----------------------|--|----------------------|
| <b>PILATUS</b><br>PC-6/C-H2 TURBO PORTER   | 7A15                                   | HONEYWELL TPE331-25D<br>575 HP @ 2000 RPM                    | HC-B3TN-5C<br>T10178C<br>T10178CN                          | 101.5" TO 99"         | C-3043-1P                                | 726                  |
| <b>PILATUS</b><br>PC-6/C1-H2 TURBO PORTER  | 7A15                                   | HONEYWELL TPE331-1-100<br>575 HP @ 2000 RPM                  | HC-B3TN-5C<br>T10178C<br>T10178CN<br>T10178CNR<br>T10178CR | 101.5" TO 99"         | C-3043-1P                                | 727                  |
| <b>PILATUS</b><br>PC-6/A,C-H2 TURBO PORTER | STC-SA368EA<br>STYLES AVIATION         | HONEYWELL TPE331-25D, -25DA, -250B, -71<br>575 HP @ 2000 RPM | HC-B3TN-5C<br>T10178C<br>T10178CN                          | 101.5"                | C-3043-1                                 | 729                  |
| <b>PILATUS</b><br>PC-7 TURBO TRAINER       | A50EU                                  | PRATT & WHITNEY PT6A-25A<br>550 HP @ 2200 RPM                | HC-B3TN-2(F)<br>T10173C-8<br>T10173CK-8<br>T10173CN-8      | 93.5" TO 92 3/8"      | C-3065<br>C-3065-P<br>D-5203-P           | 732                  |
| <b>PILATUS</b><br>PC-7 TURBO TRAINER       | SA8323SW<br>SIERRA IND.                | PRATT & WHITNEY PT6A-25C<br>750 HP @ 2200 RPM                | HC-B3TN-2<br>T10178N-8R*2                                  | 93.5" TO 91.0"        | C-3065-P                                 | 733                  |
| <b>PILATUS</b><br>PC-7 MKII TURBO TRAINER  | Unknown                                | PRATT & WHITNEY PT6A-25C<br>700 HP @ 2040 RPM                | HC-D4N-2D<br>D9512A<br>D9512AK                             | 96.0" TO 95.0"        | D-630-1                                  | 1194                 |
| <b>PILATUS</b><br>PC-7 MKII TURBO TRAINER  | Unknown                                | PRATT & WHITNEY PT6A-25C<br>700 HP @ 2040 RPM                | HC-D4N-2E<br>D9512A<br>D9512AK                             | 96.0" TO 95.0"        | D-630-1<br>D-630-1P<br>107562P<br>107562 | 1448                 |
| <b>PILATUS</b><br>PC-9                     | Unknown                                | PRATT & WHITNEY PT6A-62<br>950 HP @ 2000 RPM                 | HC-D4N-2A<br>D9512A<br>D9512AK                             | 96" TO 95"            | D-630-1P                                 | 734                  |

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|---|--|---|--|-----------------------|--|----------------------|
| <b>PILATUS</b><br>PC-9  | Unknown                                    | PRATT & WHITNEY PT6A-62<br>950 HP @ 2000 RPM                        | HC-D4N-2AA<br>D9512AEK                   | 96" TO 95"            | D-630-1P   | <b>1451</b>          |
| <b>PILATUS</b><br>PC-12, PC-12/45, PC-12/47                           | A78EU                                      | PRATT & WHITNEY PT6A-67B<br>1200 HP @ 1700 RPM                      | HC-E4A-3D<br>E10477<br>E10477K           | 105.0" TO 104.0"      | D-5500-1P<br>D-5500-1F<br>D-5500-1                                       | <b>735</b>           |
| <b>PILATUS</b><br>PC-12/(45,47)                                       | SA02266LA<br>Finnoff                       | PRATT & WHITNEY PT6A-67P<br>1200 HP @ 1700 RPM                      | HC-E4A-3D<br>E10477SK                    | 105.0" TO 104.0"      | D-5500-1<br>D-5500-1P  | <b>3538</b>          |
| <b>PILATUS</b><br>PC-12/47E   | A78EU                                      | PRATT & WHITNEY PT6A-67P<br>1200 HP @ 1700 RPM                      | HC-E4A-3D<br>E10477SK                    | 105.0" TO 104.0"      | D-5500-1<br>D-5500-1P<br>D-5500-1F                                       | <b>2667</b>          |
| <b>PILATUS</b><br>PC-21   | Unknown                                    | PRATT & WHITNEY PT6A-68B<br>1600 HP @ 2000 RPM                      | HC-E5A-2<br>E9193B<br>E9193K<br>E9193K*2 | 94                    | E-7480   | <b>2452</b>          |
| <b>PINE AIR</b><br>see KWAD   |  | HP @ RPM  |  |                       |  | <b>736</b>           |
| <b>Piper</b><br>PA-12, PA-12S, PA-14 Super Cruiser,<br>Family Cruiser | SA03328CH<br>Svenn's Aviation              | Lycoming O-360-A1(A,D,P) O-360-<br>C1(A,C,E,G)<br>180 HP @ 2700 RPM | HC-C2YR-1N<br>NG8301-1                   | 82"                   | 106574F2<br>106574F1<br>106574   | <b>3795</b>          |
| <b>PIPER</b><br>PA-24 COMANCHE  | SA00631CH<br>Hartzell Propeller Inc.       | Lycoming O-360-A1(A,D)<br>180 HP @ 2700 RPM                         | HC-C2YR-1BFP<br>F7497*1                  | 74"-72.5"             | 835-58<br>835-58P<br>835-54P<br>835-54<br>103585<br>103585F2<br>103585F1 | <b>3248</b>          |

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| PIPER<br>PA-28-236 Dakota           | SA03321CH<br>Professional Pilots Inc.      | LYCOMING O-540-J3A5D<br>235 HP @ 2400 RPM            | HC-F2YR-1FP<br>F8068*1             | 80.0" TO 78.0"        | C-3568-P<br>C-3568  | 3271                 |
| PIPER<br>PA-31T, T1 CHEYENNE        | SA00863SE<br>Blackhawk Modifications, Inc. | Pratt & Whitney PT6A-135, -135A<br>620 HP @ 1900 RPM | HC-B3TN-3B<br>T10178B-8R           | 93.5                  |   | 2833                 |
| PIPER<br>PA-36-285, PA-36-300 Brave | SA1291CE<br>Clinton R. Anderson            | Lycoming IO-720-A1B<br>400 HP @ 2650 RPM             | HC-C3YR-1RF<br>F8475R              | 86" to 80"            | C-3552-1  | 3216                 |
| PIPER<br>PA-36-300 Brave            | STC SVA 529<br>Tapp's Aviation Pty Ltd.    | Lycoming IO-540-K1G5<br>300 HP @ 2700 RPM            | HC-C2YR-1BF<br>F8475T+2            | 86" no cut off        | 835-23P<br>835-23   | 3252                 |
| PIPER<br>PA-46-500TP MERIDIAN       | SA04045CH<br>HARTZELL                      | PRATT&WHITNEY PT6A-42A<br>500 HP @ 2000 RPM          | 5D3-N338A1<br>78D01B               | 82.5"                 | 105951P<br>105951   | 3438                 |
| PIPER<br>PA-46-500TP M500           | SA04045CH<br>Hartzell Propeller Inc        | PRATT & WHITNEY PT6A-42A<br>500 HP @ 2000 RPM        | 5D3-N338A1<br>78D01B*2             | 82.5                  | 105951P<br>105951   | 3436                 |
| PIPER<br>PA-46-600TP M600           | A25SO                                      | PRATT & WHITNEY PT6A-42A<br>600 HP @ 2000 RPM        | 5D3-N338A1<br>78D01B*2             | 82.5                  | 105951P<br>105951<br>106917P<br>106917<br>105949P<br>105949 | 3450                 |
| PIPER<br>PA46-600TP M600            | A25SO                                      | PRATT & WHITNEY PT6A-42<br>600 HP @ 2000 RPM         | HC-E4N-3Q<br>E8501K-3.5*1          | 82.5" TO 81.5"        | D-630-5P<br>D-630-5   | 3353                 |
| PIPER<br>PA-14 FAMILY CRUISER       | STC-SA196SW<br>JB SIMPSON                  | LYCOMING O-235-C1<br>115 HP @ 2800 RPM               | HC-82VL-6F, HC-A2VL-6F<br>V7636D-4 | 72.2"                 | 835-30<br>835-6P  | 2232                 |

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| <b>PIPER</b><br>PA-14 FAMILY CRUISER      | STC-SA196SW<br>JB SIMPSON              | LYCOMING O-235-C1<br>115 HP @ 2800 RPM        | HC-A2MVL-6F<br>MV7636N-4                                | 72.2"                 | 835-30<br>835-6P  | <b>738</b>           |
| <b>PIPER</b><br>PA-12, PA-18 SUPER CUB    | ST01919CH<br>PROFESSIONAL PILOTS, INC  | LYCOMING O-320-B2B<br>160 HP @ 2700 RPM       | HC-C2YL-1BF<br>F8468A-4                                 | 80" - 74"             | A-4203-P  | <b>2482</b>          |
| <b>PIPER</b><br>PA-12, PA-18 SUPER CUB    | ST01919CH<br>PROFESSIONAL PILOTS       | LYCOMING O-360-A1A<br>180 HP @ 2700 RPM       | HC-C2YR-1BF<br>F8477-4                                  | 80" TO 78"            | C-3568-P  | <b>2038</b>          |
| <b>PIPER</b><br>PA-12, PA-18 SUPER CUB    | ST01919CH<br>PROFESSIONAL PILOTS       | LYCOMING O-360-A( )<br>180 HP @ 2700 RPM      | HC-C2YR-1N<br>NG8301                                    | 83"                   | C-3568-P<br>D-4798P<br>D-4798<br>C-3568<br>A-4203-P<br>A-4203<br>106574F2<br>106574F1<br>106574 | <b>3485</b>          |
| <b>PIPER</b><br>PA-18A-150 SUPER CUB      | STC-SA4-254<br>ELLEN BELLOTI           | LYCOMING O-320-A2A, -A2B<br>150 HP @ 2700 RPM | HC-82VL-6F, HC-A2VL-6F<br>V7636D-4                      | 72.2"                 | 835-30<br>835-6P  | <b>2235</b>          |
| <b>PIPER</b><br>PA-18A-150 SUPER CUB      | STC-SA4-254<br>ELLEN BELLOTI           | LYCOMING O-320-A2A, -A2B<br>150 HP @ 2700 RPM | HC-A2MVL-6F<br>MV7636N-4                                | 72.2"                 | 835-30<br>835-6P  | <b>742</b>           |
| <b>PIPER</b><br>PA-18(A)(S)-150 SUPER CUB | STC-SA284AL<br>BACHNERS A/C            | LYCOMING O-320<br>150 HP @ 2700 RPM           | HC-C2YL-1B<br>F7663-4                                   | 72"                   |   | <b>740</b>           |
| <b>PIPER</b><br>PA-18(A)(S)-150 SUPER CUB | STC-SA284AL<br>BACHNERS A/C            | LYCOMING O-320-A2A, -A2A<br>150 HP @ 2700 RPM | HC-A2XL-1 HC-A2XL-2, HC-A2XL-6<br>7636-4<br>7636D-4     | 72.2"                 |   | <b>2233</b>          |
| <b>PIPER</b><br>PA-18(A)(S)-150 SUPER CUB | STC-SA284AL<br>BACHNERS A/C            | LYCOMING O-320-A2A, -A2A<br>150 HP @ 2700 RPM | HC-A2VL-1, HC-A2VL-2, HC-A2VL-6<br>V7636D-4<br>V7636N-4 | 72.2"                 |   | <b>2234</b>          |

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|--|--|---|--|-----------------------|-------------------|----------------------|
| <b>PIPER</b><br>PA-18(A)(S)-150 SUPER CUB      | STC-SA284AL<br>BACHNERS A/C            | LYCOMING O-320-A2A, -A2A<br>150 HP @ 2700 RPM   | HC-A2MVL-1,-6F<br>MV7636N-4                  | 72.2"                 |                   | 739                  |
| <b>PIPER</b><br>PA-18(A)(S)-150 SUPER CUB      | STC-SA4-1143<br>WESTERN COMMANDER      | LYCOMING O-320-A3B<br>150 HP @ 2700 RPM         | HC-A2MVL-6F<br>MV7636N-2                     | 74.2"                 | 835-30<br>835-6P  | 741                  |
| <b>PIPER</b><br>PA-22-150, PA-22S-150 TRIPACER | 1A6                                    | LYCOMING O-320-A1A, -A1B<br>150 HP @ 2700 RPM   | HC-A2MVL-6F<br>MV7636N-4                     | 72.2" TO 70"          | 835-30<br>835-6   | 743                  |
| <b>PIPER</b><br>PA-23 APACHE                   | 1A10                                   | LYCOMING O-320-A(1,3)(A,B)<br>150 HP @ 2700 RPM | HC-82XL-2, HC-A2XL-2<br>7636D                | 76.2" TO 74.5"        | 835-30            | 2236                 |
| <b>PIPER</b><br>PA-23 APACHE                   | 1A10                                   | LYCOMING O-320-A(1,3)(A,B)<br>150 HP @ 2700 RPM | HC-82XL-2, HC-A2XL-2<br>7636-4<br>7636D-4    | 72.2" TO 70"          | 835-30            | 2237                 |
| <b>PIPER</b><br>PA-23 APACHE                   | 1A10                                   | LYCOMING O-320-A(1,3)(A,B)<br>150 HP @ 2700 RPM | HC-82VL-2, HC-A2VL-2<br>V7636D-4<br>V7636N-4 | 72.2" TO 70"          | 835-30            | 2238                 |
| <b>PIPER</b><br>PA-23 APACHE                   | 1A10                                   | LYCOMING O-320-A(1,3)(A,B)<br>150 HP @ 2700 RPM | HC-A2VL-2<br>V7636<br>V7636N                 | 76.2" TO 74.5"        | 835-30            | 2320                 |
| <b>PIPER</b><br>PA-23 APACHE                   | 1A10                                   | LYCOMING O-320-A(1,3)(A,B)<br>150 HP @ 2700 RPM | HC-A2MVL-2<br>MV7636N                        | 76.2" TO 74.5"        | 835-30            | 744                  |
| <b>PIPER</b><br>PA-23 APACHE                   | 1A10                                   | LYCOMING O-320-A(1,3)(A,B)<br>150 HP @ 2700 RPM | HC-A2MVL-2<br>MV7636N-4                      | 72.2" TO 70"          | 835-30            | 745                  |
| <b>PIPER</b><br>PA-23 APACHE                   | STC-SA00721CH<br>HARTZELL PROPELLER    | LYCOMING O-320<br>160 HP @ 2700 RPM             | HC-C2YL-2CUF<br>FC7663-4*2                   | 72" TO 71"            | 836-29<br>836-29P | 1202                 |



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|------------------------------|--|---|--|-----------------------|-----------------|----------------------|
| PIPER<br>PA-23 APACHE        | STC-SA1-6<br>HARTZELL PROPELLER        | LYCOMING O-320-A1A, -A1B, -A3A, -A3B<br>150 HP @ 2700 RPM | HC-82XL-2, HC-A2XL-2<br>7636-4<br>7636D-4                | 72.2" TO 70"          | 835-30          | 2252                 |
| PIPER<br>PA-23 APACHE        | STC-SA1-6<br>HARTZELL PROPELLER        | LYCOMING O-320-A1A, -A1B, -A3A, -A3B<br>150 HP @ 2700 RPM | HC-82VL-2, HC-A2VL-2<br>V7636D-4<br>V7636N-4             | 72.2" TO 70"          | 835-30          | 2253                 |
| PIPER<br>PA-23 APACHE        | STC-SA1-6<br>HARTZELL PROPELLER        | LYCOMING O-320-A1A, -A1B, -A3A, -A3B<br>150 HP @ 2700 RPM | HC-A2MVL-2<br>MV7636N-4                                  | 72.2" TO 70"          | 835-30          | 755                  |
| PIPER<br>PA-23 SERIES APACHE | STC-SA2-1088<br>TW SMITH INC           | LYCOMING O-320-B3B<br>160 HP @ 2700 RPM                   | HC-82XL-2, HC-A2XL-2, HC-82XL-2B<br>7636-4<br>7636D-4    | 72.2" TO 70"          | 835-30          | 2254                 |
| PIPER<br>PA-23 SERIES APACHE | STC-SA2-1088<br>TW SMITH INC           | LYCOMING O-320-B3B<br>160 HP @ 2700 RPM                   | HC-82VL-2, HC-A2VL-2, HC-82VL-2B<br>V7636D-4<br>V7636N-4 | 72.2" TO 70"          | 835-30          | 2255                 |
| PIPER<br>PA-23 SERIES APACHE | STC-SA2-1088<br>TW SMITH INC           | LYCOMING O-320-B3B<br>160 HP @ 2700 RPM                   | HC-A2MVL-2<br>MV7636N-4                                  | 72.2" TO 70"          | 835-30          | 756                  |
| PIPER<br>PA-23 APACHE        | STC-SA4-783<br>McKENZIE FLYING SERVICE | LYCOMING O-340-A1A<br>160 HP @ 2700 RPM                   | HC-82XL-2, HC-A2XL-2, HC-82XL-2C<br>7636D<br>8433-12     | 72.2", 76.2"          | 835-30          | 2256                 |
| PIPER<br>PA-23 APACHE        | STC-SA4-783<br>McKENZIE FLYING SERVICE | LYCOMING O-340-A1A<br>160 HP @ 2700 RPM                   | HC-A2VL-2, HC-82VL-2C<br>V7636<br>V7636N<br>V8433N-12    | 72.2", 76.2"          | 835-30          | 2322                 |
| PIPER<br>PA-23 APACHE        | STC-SA4-783<br>McKENZIE FLYING SERVICE | LYCOMING O-340-A1A<br>160 HP @ 2700 RPM                   | HC-A2MVL-2<br>MV7636N<br>MV8433N-12                      | 72.2", 76.2"          | 835-30          | 757                  |

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| PIPER<br>PA-23 APACHE     | STC-SA3-728/SA29CE<br>JACKSON M. REED  | LYCOMING O-360-A1D<br>180 HP @ 2700 RPM             | HC-92ZK-2B<br>8447-12A<br>8447N-12A          | 71.6"                 | 835-30          | 762                  |
| PIPER<br>PA-23 APACHE     | STC-SA3-728/SA29CE<br>Jackson M. Reed  | LYCOMING O-360-A1D<br>180 HP @ 2700 RPM             | HC-C2YK-2RBF<br>F7666-4                      | 72"                   |                 | 761                  |
| PIPER<br>PA-23 APACHE     | STC-SA285CE<br>KWAD CO.                | LYCOMING IO-360-B1B<br>200 HP @ 2700 RPM            | HC-C2YK-2RBF<br>F7666A-2                     | 74"                   | 835-21          | 760                  |
| PIPER<br>PA-23 APACHE     | STC-SA1306SW<br>JW MILLER AVIATION     | LYCOMING IO-360-C1C<br>200 HP @ 2700 RPM            | HC-C2YK-2CF<br>FC7666A-4*1                   | 72"                   | 836-29          | 758                  |
| PIPER<br>PA-23-160 APACHE | 1A10                                   | LYCOMING O-320-(B,C)(1,3)(A,B)<br>160 HP @ 2700 RPM | HC-82XL-2, HC-A2XL-2<br>7636D                | 76.2" TO 74.5"        | 835-30          | 2339                 |
| PIPER<br>PA-23-160 APACHE | 1A10                                   | LYCOMING O-320-(B,C)(1,3)(A,B)<br>160 HP @ 2700 RPM | HC-82XL-2, HC-A2XL-2<br>7636-4<br>7636D-4    | 72.2" TO 70"          | 835-30          | 2240                 |
| PIPER<br>PA-23-160 APACHE | 1A10                                   | LYCOMING O-320-(B,C)(1,3)(A,B)<br>160 HP @ 2700 RPM | HC-82VL-2, HC-A2VL-2<br>V7636D-4<br>V7636N-4 | 72.2" TO 70"          | 835-30          | 2241                 |
| PIPER<br>PA-23-160 APACHE | 1A10                                   | LYCOMING O-320-(B,C)(1,3)(A,B)<br>160 HP @ 2700 RPM | HC-A2VL-2<br>V7636<br>V7636N                 | 76.2" TO 74.5"        | 835-30          | 2321                 |
| PIPER<br>PA-23-160 APACHE | 1A10                                   | LYCOMING O-320-(B,C)(1,3)(A,B)<br>160 HP @ 2700 RPM | HC-A2MVL-2<br>MV7636N                        | 76.2" TO 74.5"        | 835-30          | 746                  |
| PIPER<br>PA-23-160 APACHE | 1A10                                   | LYCOMING O-320-(B,C)(1,3)(A,B)<br>160 HP @ 2700 RPM | HC-A2MVL-2<br>MV7636N-4                      | 72.2" TO 70"          | 835-30          | 747                  |

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|----------------------------------|--|---|--|-----------------------|-------------------|----------------------|
| PIPER<br>PA-23, PA-23-160 APACHE | SA899SW<br>APACHE MODIFICATION<br>AIRCRAFT     | LYCOMING O-360-A1D<br>180 HP @ 2700 RPM               | HC-C2YK-2RB(F)<br>F7666A-2   | 74"                   | 835-21P<br>835-21 | 2666                 |
| PIPER<br>PA-23, PA-23-160 APACHE | STC-SA1-5<br>HARTZELL PROPELLER                | LYCOMING O-320-A(1,3)(A,B)-150hp<br>150 HP @ 2700 RPM | HC-A2XL-2, HC-82XL-2, HCA2SL-2C,<br>HC-82XL-2C<br>7636-4<br>7636D-4      | 72.2" TO 70"          | 835-30            | 2248                 |
| PIPER<br>PA-23, PA-23-160 APACHE | STC-SA1-5<br>HARTZELL PROPELLER                | LYCOMING O-320-A(1,3)(A,B)-150hp<br>150 HP @ 2700 RPM | HC-A2VL-2, HC-82VL-2, HC-A2VL-<br>2C, HC-82VL-2C<br>V7636D-4<br>V7636N-4 | 72.2" TO 70"          | 835-30            | 2249                 |
| PIPER<br>PA-23, PA-23-160 APACHE | STC-SA1-5<br>HARTZELL PROPELLER                | LYCOMING O-320-A(1,3)(A,B)-150hp<br>150 HP @ 2700 RPM | HC-A2MVL-2<br>MV7636N-4  | 72.2" TO 70"          | 835-30            | 753                  |
| PIPER<br>PA-23, PA-23-160 APACHE | STC-SA1-5<br>HARTZELL PROPELLER                | LYCOMING O-320-(B,C)(1,3)(A,B)<br>160 HP @ 2700 RPM   | HC-A2XL-2, HC-82XL-2<br>7636-4<br>7636D-4                                | 72.2" TO 70"          | 835-30            | 2250                 |
| PIPER<br>PA-23, PA-23-160 APACHE | STC-SA1-5<br>HARTZELL PROPELLER                | LYCOMING O-320-(B,C)(1,3)(A,B)<br>160 HP @ 2700 RPM   | HC-A2VL-2, HC-82VL-2<br>V7636D-4<br>V7636N-4                             | 72.2" TO 70"          | 835-30            | 2251                 |
| PIPER<br>PA-23, PA-23-160 APACHE | STC-SA1-5<br>HARTZELL PROPELLER                | LYCOMING O-320-(B,C)(1,3)(A,B)<br>160 HP @ 2700 RPM   | HC-A2MVL-2<br>MV7636N-4  | 72.2" TO 70"          | 835-30            | 754                  |
| PIPER<br>PA-23-160 APACHE        | STC-SA395WE<br>MET-CO-AIR                      | LYCOMING O-360-A1A<br>180 HP @ 2700 RPM               | HC-C2YK-2RBF<br>F7666A-2   | 74"                   | 836-29P<br>836-29 | 763                  |
| PIPER<br>PA-23, PA-23-160 APACHE | STC-SA899SW<br>APACHE MODIFICATION<br>AIRCRAFT | LYCOMING O-360-A1D<br>180 HP @ 2700 RPM               | HC-C2YK-2CUF<br>FC7666A-2*2  | 74" TO 72"            | 836-29<br>836-29P | 1492                 |
| PIPER<br>PA-23-160 APACHE        | STC-SA1306SW<br>JW MILLER AV.                  | LYCOMING IO-360-C1C<br>200 HP @ 2700 RPM              | HC-C2YK-2CF<br>FC7666A-4*1   | 72"                   | 836-29            | 759                  |

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|--------------------------------------|--|--|--|-----------------------|-----------------|----------------------|
| PIPER<br>PA-23-235 APACHE            | 1A10                                   | LYCOMING O-540-B1A5<br>235 HP @ 2575 RPM               | HC-82XK-2, HC-A2XK-2<br>8433-10                | 74.2" TO 73"          |                 | 2242                 |
| PIPER<br>PA-23-235 APACHE            | 1A10                                   | LYCOMING O-540-B1A5<br>235 HP @ 2575 RPM               | HC-82VK-2, HC-A2VK-2<br>V8433-10<br>V8433N-10  | 74.2" TO 73"          |                 | 2243                 |
| PIPER<br>PA-23-235 APACHE            | 1A10                                   | LYCOMING O-540-B1A5<br>235 HP @ 2575 RPM               | HC-A2MVK-2<br>MV8433N-10                       | 74.2" TO 73"          |                 | 748                  |
| PIPER<br>PA-23-235, 250 AZTEC        | STC-SA495CE<br>ROBERT WILLIAMS         | LYCOMING O-540-A1B5, -A1D5, -A3D5<br>250 HP @ 2575 RPM | HC-83XK-2B, HC-A3XK-2B<br>7636-4<br>7636D-4    | 72.2" TO 70"          | C-2513-2        | 2263                 |
| PIPER<br>PA-23-235, 250 AZTEC        | STC-SA495CE<br>ROBERT WILLIAMS         | LYCOMING O-540-A1B5, -A1D5, -A3D5<br>250 HP @ 2575 RPM | HC-83VK-2B, HC-A3VK-2B<br>V7636D-4<br>V7636N-4 | 72.2" TO 70"          | C-2513-2        | 2264                 |
| PIPER<br>PA-23-235, 250 AZTEC        | STC-SA495CE<br>ROBERT WILLIAMS         | LYCOMING O-540-A1B5, -A1D5, -A3D5<br>250 HP @ 2575 RPM | HC-A3MVK-2B<br>MV7636N-4                       | 72.2" TO 70"          | C-2513-2        | 771                  |
| PIPER<br>PA-23-235, 250 AZTEC        | STC-SA495CE<br>ROBERT WILLIAMS         | LYCOMING O-540-B1A5<br>235 HP @ 2575 RPM               | HC-83XK-2B, HC-A3XK-2B<br>7636-4<br>7636D-4    | 72.2" TO 70"          | C-2513-2        | 2261                 |
| PIPER<br>PA-23-235, 250 AZTEC        | STC-SA495CE<br>ROBERT WILLIAMS         | LYCOMING O-540-B1A5<br>235 HP @ 2575 RPM               | HC-83VK-2B, HC-A3VK-2B<br>V7636D-4<br>V7636N-4 | 72.2" TO 70"          | C-2513-2        | 2262                 |
| PIPER<br>PA-23-235, 250 AZTEC        | STC-SA495CE<br>ROBERT WILLIAMS         | LYCOMING O-540-B1A5<br>235 HP @ 2575 RPM               | HC-A3MVK-2B<br>MV7636N-4                       | 72.2" TO 70"          | C-2513-2        | 770                  |
| PIPER<br>PA-23-250, PA-E23-250 AZTEC | 1A10                                   | LYCOMING IO-540-C4B5<br>250 HP @ 2575 RPM              | HC-E2YR-2RBSF<br>F8465-7R<br>F8465B-7R         | 77.0" TO 76.0"        |                 | 751                  |

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|--------------------------------------|--|---|---|-----------------------|-----------------|----------------------|
| PIPER<br>PA-23-250, PA-E23-250 AZTEC | 1A10                                   | LYCOMING TIO-540-C1A<br>250 HP @ 2575 RPM                         | HC-E2YR-2RBSF<br>F8465-7R<br>F8465B-7R<br>F8465B-7R*1 | 77" TO 76"            |                 | 752                  |
| PIPER<br>PA-23-250; SN<27-2000 AZTEC | 1A10                                   | LYCOMING IO-540-C(1,4)B5, O-540-A(1,3)(B,D)5<br>250 HP @ 2575 RPM | HC-82XK-2, HC-A2XK-2<br>8433-10                       | 74.2" TO 73"          |                 | 2244                 |
| PIPER<br>PA-23-250; SN<27-2505 AZTEC | 1A10                                   | LYCOMING IO-540-C(1,4)B5, O-540-A(1,3)(B,D)5<br>250 HP @ 2575 RPM | HC-82XK-2C1, HC-A2XK-2<br>8433-10                     | 74.2" TO 73"          |                 | 2246                 |
| PIPER<br>PA-23-250; SN<27-2000 AZTEC | 1A10                                   | LYCOMING IO-540-C(1,4)B5, O-540-A(1,3)(B,D)5<br>250 HP @ 2575 RPM | HC-82VK-2, HC-A2VK-2<br>V8433-10<br>V8433NB-10        | 74.2" TO 73"          |                 | 2245                 |
| PIPER<br>PA-23-250; SN<27-2505 AZTEC | 1A10                                   | LYCOMING IO-540-C(1,4)B5, O-540-A(1,3)(B,D)5<br>250 HP @ 2575 RPM | HC-82VK-2C1, HC-A2VK-2<br>V8433-10                    | 74.2" TO 73"          |                 | 2247                 |
| PIPER<br>PA-23-250; SN<27-2000 AZTEC | 1A10                                   | LYCOMING IO-540-C(1,4)B5, O-540-A(1,3)(B,D)5<br>250 HP @ 2575 RPM | HC-A2MVK-2<br>MV8433NB-10                             | 74.2" TO 73"          |                 | 749                  |
| PIPER<br>PA-23-250; SN<27-2505 AZTEC | 1A10                                   | LYCOMING IO-540-C(1,4)B5, O-540-A(1,3)(B,D)5<br>250 HP @ 2575 RPM | HC-A2MVK-2<br>MV8433N-10                              | 74.2" TO 73"          |                 | 750                  |
| PIPER<br>PA-(E)23-250 AZTEC          | STC-SA164CE<br>KWAD CO.                | LYCOMING O-540-A1B5, -A3D5, -A1D5<br>250 HP @ 2575 RPM            | HC-83XK-2B, HC-A3XK-2B<br>7636-4<br>7636D-4           | 72.6"                 | C-2513-2        | 2257                 |
| PIPER<br>PA-(E)23-250 AZTEC          | STC-SA164CE<br>KWAD CO.                | LYCOMING O-540-A1B5, -A3D5, -A1D5<br>250 HP @ 2575 RPM            | HC-83VK-2B, HC-A3VK-2B<br>V7636D-4<br>V7636N-4        | 72.6"                 | C-2513-2        | 2258                 |

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|--|--|--|--|-----------------------|-----------------|----------------------|
| PIPER<br>PA-23-250 AZTEC                 | STC-SA164CE<br>KWAD CO.                | LYCOMING O-540-A1B5, -A3D5, A1D5<br>250 HP @ 2575 RPM  | HC-A3XK-2B<br>7636-4<br>7636D-4                | 72"                   | C-2513-2        | 2395                 |
| PIPER<br>PA-E23-250 AZTEC                | STC-SA164CE<br>KWAD CO.                | LYCOMING O-540-A1B5, A3D5, A1D5<br>250 HP @ 2575 RPM   | HC-A3XK-2B<br>7636D-4                          |                       | C-2513-2        | 2399                 |
| PIPER<br>PA-23-250 AZTEC                 | STC-SA164CE<br>KWAD CO.                | LYCOMING O-540-A1B5, -A3D5, -A1D5<br>250 HP @ 2575 RPM | HC-A3VK-2B<br>V7636D-4<br>V7636N-4             | 72"                   | C-2513-2        | 2396                 |
| PIPER<br>PA-E23-250 AZTEC                | STC-SA164CE<br>KWAD CO.                | LYCOMING O-540-A1B5, -A3D5, -A1D5<br>250 HP @ 2575 RPM | HC-A3VK-2B<br>V7636D-4                         |                       | C-2513-2        | 2400                 |
| PIPER<br>PA-(E)23-250 AZTEC              | STC-SA164CE<br>KWAD CO.                | LYCOMING O-540-A1B5, -A3D5, -A1D5<br>250 HP @ 2575 RPM | HC-A3MVK-2B<br>MV7636N-4                       | 72.6"                 | C-2513-2        | 765                  |
| PIPER<br>PA-23-250 AZTEC                 | STC-SA179CE<br>KWAD CO.                | LYCOMING IO-540-A1A5<br>290 HP @ 2575 RPM              | HC-A3MVK-2C<br>MV8433N-10                      | 74.6" TO 72"          | C-2513-2        | 768                  |
| PIPER<br>PA-23-250 AZTEC                 | STC-SA441NW<br>AAR OF OKLAHOMA         | LYCOMING TIO-540-C1A<br>250 HP @ 2575 RPM              | HC-E3YR-2ATF<br>FC7663-2R                      | 76" TO 75"            |                 | 773                  |
| PIPER<br>PA-23-250 (CERTAIN SER #) AZTEC | STC-SA1063CE<br>AEROSTOL CO.           | LYCOMING TIO-540-C1A<br>250 HP @ 2575 RPM              | HC-E3YR-2ATF<br>FC7663-2R                      | 76" TO 75"            | D-3273          | 772                  |
| PIPER<br>PA-23-250 AZTEC                 | STC-SA179CE<br>KWAD CO.                | LYCOMING IO-540-G1A5<br>290 HP @ 2575 RPM              | HC-83XK-2B, HC-A3XK-2B<br>7636-4<br>7636D-4    | 72.6" TO 70.25"       | C-2513-2        | 2259                 |
| PIPER<br>PA-23-250 AZTEC                 | STC-SA179CE<br>KWAD CO.                | LYCOMING IO-540-G1A5<br>290 HP @ 2575 RPM              | HC-83VK-2B, HC-A3VK-2B<br>V7636D-4<br>V7636N-4 | 72.6" TO 70.25"       | C-2513-2        | 2260                 |
| PIPER<br>PA-23-250 AZTEC                 | STC-SA179CE<br>KWAD CO.                | LYCOMING IO-540-G1A5<br>290 HP @ 2575 RPM              | HC-A3MVK-2B<br>MV7636N-4                       | 72.6" TO 70.25"       | C-2513-2        | 767                  |

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|--|--|---|--|-----------------------|--|----------------------|
| PIPER<br>PA-23-250 (CERTAIN SER #) AZTEC | STC-SA1063CE<br>AEROSTOL CO.             | LYCOMING IO-540-J4A5, -C4B5<br>250 HP @ 2575 RPM                  | HC-E3YR-2ATF<br>FC7663-2R                  | 76" TO 75"            | D-3273   | 764                  |
| PIPER<br>PA-23-250 AZTEC                 | STC-SA441NW<br>WESTERN SKYWAYS           | LYCOMING IO-540-J4A5, -C4B5<br>250 HP @ 2575 RPM                  | HC-E3YR-2ATF<br>FC7663-2R                  | 76" TO 75"            |  | 769                  |
| PIPER<br>PA-23-250 AZTEC                 | SA02874CH-D<br>HARTZELL PROPELLER        | Lycoming IO-540-C4B5, TIO-540-C1A<br>250 HP @ 2575 RPM            | HC-E2YR-2BTF<br>FC7693F+1<br>FC7693FB+1    | 77"                   | 103409F1<br>103409   | 2864                 |
| PIPER<br>PA-24 COMANCHE                  | 1A15                                     | LYCOMING O-360-A1A, -A1D<br>180 HP @ 2700 RPM                     | HC-92ZK-8D<br>8447A-12A                    | 72.25" TO 70.5"       | 835-30<br>835-6  | 774                  |
| PIPER<br>PA-24 COMANCHE                  | STC-SA00631CH<br>HARTZELL PROPELLER INC. | LYCOMING O-360-A1A, -A1D<br>180 HP @ 2700 RPM                     | HC-C2YR-1BF<br>F7666A-4<br>F7666A-4*1      | 72.0" NO CUT OFF      | 103585F2<br>103585F1<br>103585<br>835-58P<br>835-58<br>835-54P<br>835-54 | 1315                 |
| PIPER<br>PA-24 SERIES COMANCHE           | STC-SE3552(3553)NM<br>JOHNSTON AIRCRAFT  | LYCOMING O-540-B1B5<br>235 HP @ 2575 RPM                          | HC-A2XK-1<br>8433-7                        | 76"                   | 835-30   | 2397                 |
| PIPER<br>PA-24 SERIES COMANCHE           | STC-SE3552 (3553)NM<br>JOHNSTON AIRCRAFT | LYCOMING O-540-B1B5<br>235 HP @ 2575 RPM                          | HC-A2VK-1<br>V8433-7<br>V8433N-7           | 76"                   | 835-30   | 2398                 |
| PIPER<br>PA-24-250 COMANCHE              | 1A15                                     | LYCOMING O-540-A1A,-A1(A,B,C,D)5;IO-540-C1B5<br>250 HP @ 2575 RPM | HC-82XK-1, HC-A2XK-1, HC-82XK-1D<br>8433-7 | 77 7/16" TO 76"       | 835-30<br>835-6  | 2265                 |

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|---------------------------------------|---|---|---|-----------------------|---|----------------------|
| PIPER<br>PA-24-250 COMANCHE           | 1A15  | LYCOMING O-540-A1A,-A1(A,B,C,D)5;IO-540-C1B5<br>250 HP @ 2575 RPM | HC-82VK-1, HC-A2VK-1, HC-82VK-1D<br>V8433-7<br>V8433N-7 | 77 7/16" TO 76"       | 835-30<br>835-6                           | 2266                 |
| PIPER<br>PA-24-250 COMANCHE           | 1A15  | LYCOMING O-540-A1A,-A1(A,B,C,D)5;IO-540-C1B5<br>250 HP @ 2575 RPM | HC-A2MVK-1<br>MV8433N-7                                 | 77 7/16" TO 76"       | 835-30<br>835-6                           | 775                  |
| PIPER<br>PA-24-250 COMANCHE           | STC-SA3550NM<br>JOHNSTON AIRCRAFT SERVICE       | LYCOMING O-540-A4(A,B,C,D)5, IO-540-C4B5<br>250 HP @ 2575 RPM     | HC-C2YK-1BF<br>F8477D-5R                                | 79"                   | A-3519                                    | 776                  |
| PIPER<br>PA-24-250 COMANCHE           | STC-00423LA<br>JOHNSTON AIRCRAFT SERVICE        | LYCOMING O-540-A4(A,B,C,D)5, IO-540-C4B5<br>250 HP @ 2575 RPM     | HC-C3YR-1RF<br>F7590                                    | 77"                   | C-3535-1P<br>835-52P<br>835-52            | 1406                 |
| PIPER<br>PA-24-250 COMANCHE           | STC-SA3451WE<br>AIRCRAFT TECHNICAL SERVICE INC. | LYCOMING IO-540-C1B5<br>250 HP @ 2575 RPM                         | HC-A3MVK-4<br>MV7636N                                   |                       |   | 1938                 |
| PIPER<br>PA-24-260 COMANCHE           | 1A15  | LYCOMING O-540-E4A5; IO-540-D4A5<br>260 HP @ 2700 RPM             | HC-C2YK-1B(F)<br>F8467-7R                               | 77" TO 75"            |   | 778                  |
| PIPER<br>PA-24-260 COMANCHE           | 1A15  | LYCOMING IO-540-N1A5<br>260 HP @ 2700 RPM                         | HC-E2YR-1BF<br>F8467-7R                                 | 77" TO 75"            |   | 777                  |
| PIPER<br>PA-24-260 COMANCHE           | 1A15  | LYCOMING IO-540-R1A5 (turbo)<br>260 HP @ 2700 RPM                 | HC-E2YR-1BF<br>F8467-7R                                 | 77" TO 75"            |   | 779                  |
| PIPER<br>PA-24-260 COMANCHE 260, 260B | STC-SA288CH<br>HARTZELL PROPELLER               | LYCOMING IO-540-D4A5, -E4A5<br>260 HP @ 2700 RPM                  | HC-C3YR-1RF<br>F7590<br>F7590*1                         | 77.0" TO 76.0"        | 835-52P<br>103629F2<br>103629F1<br>103629 | 1162                 |
| PIPER<br>PA-24-260 COMANCHE 260C      | STC-SA288CH<br>HARTZELL PROPELLER               | LYCOMING IO-540-D4A5, -N1A5, -R1A5<br>260 HP @ 2700 RPM           | HC-E3YR-1RF<br>F7590                                    | 77" to 76"            | C-4582-P                                  | 1810                 |



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|-----------------------------|--|---|--|-----------------------|-----------------|----------------------|
| PIPER<br>PA-24-260 COMANCHE | SA3551NM<br>JOHNSTON AIRCRAFT SERVICE    | LYCOMING O-540-E4A5, IO-540-D4A5<br>260 HP @ 2700 RPM | HC-C2YK-1BF<br>F8477D-5R                       | 79"                   | A-3519          | 780                  |
| PIPER<br>PA-24-400 COMANCHE | 1A15                                     | LYCOMING IO-720-A1A<br>400 HP @ 2650 RPM              | HC-A3VK-4<br>V8433-7<br>V8433N-7               | 77 5/8" TO 75 5/8"    |                 | 2267                 |
| PIPER<br>PA-24-400 COMANCHE | 1A15                                     | LYCOMING IO-720-A1A<br>400 HP @ 2650 RPM              | HC-A3MVK-4<br>MV8433N-7                        | 77 5/8" TO 75 5/8"    |                 | 782                  |
| PIPER<br>PA-24S COMANCHE    | STC-SA511WE<br>JOHNSTON AIRCRAFT SERVICE | LYCOMING O-540-B1B5<br>235 HP @ 2575 RPM              | HC-82XK-1, HC-A2XK-1<br>8433-7                 | 76.6"                 | 835-30          | 2268                 |
| PIPER<br>PA-24S COMANCHE    | STC-SA511WE<br>JOHNSTON AIRCRAFT SERVICE | LYCOMING O-540-B1B5<br>235 HP @ 2575 RPM              | HC-82VK-1, HC-A2VK-1<br>V8433-7<br>V8433N-7    | 76.6"                 | 835-30          | 2269                 |
| PIPER<br>PA-24S COMANCHE    | STC-SA511WE<br>JOHNSTON AIRCRAFT SERVICE | LYCOMING O-540-B1B5<br>235 HP @ 2575 RPM              | HC-A2MVK-1<br>MV8433N-7                        | 76.6"                 | 835-30          | 783                  |
| PIPER<br>PA-25 PAWNEE       | STC-SA2-1197<br>E. HORTON, JR.           | LYCOMING O-360-A1A<br>180 HP @ 2700 RPM               | HC-92ZK-8D<br>8447A-12A<br>8447AN-12A          | 71.6"                 | 835-30          | 785                  |
| PIPER<br>PA-25-260 PAWNEE   | 2A8, 2A10                                | LYCOMING O-540-G1A5<br>260 HP @ 2700 RPM              | HC-C2YK-1BF<br>F8477<br>F8477-1                | 84" TO 83"            |                 | 784                  |
| PIPER<br>PA-28 CHEROKEE     | STC-SA222SW<br>HUTCHINSON A/C            | LYCOMING O-320-A2B<br>150 HP @ 2700 RPM               | HC-82VL-6F, HC-A2VL-6F<br>V7636D-4<br>V7636N-4 | 72.2"                 | 835-30          | 2271                 |
| PIPER<br>PA-28 CHEROKEE     | STC-SA222SW<br>HUTCHINSON A/C            | LYCOMING O-320-A2B<br>150 HP @ 2700 RPM               | HC-A2MVL-6F<br>MV7636N-4                       | 72.2"                 | 835-30          | 788                  |

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|---|---|--|-------------------------------------|-----------------------|-----------------------|----------------------|
| <b>PIPER</b><br>PA-28-140 CHEROKEE            | STC-SA2052SE<br>PROPELLERS INC.             | LYCOMING O-320-E2A<br>150 HP @ 2700 RPM        | HC-82VL-6F, HC-A2VL-6F<br>V8433N-12 | 72.2"                 |                       | 2270                 |
| <b>PIPER</b><br>PA-28-140 CHEROKEE            | STC-SA2052SE<br>PROPELLERS INC.             | LYCOMING O-320-E2A<br>150 HP @ 2700 RPM        | HC-A2MVL-6F<br>MV8433N-12           | 72.2"                 |                       | 786                  |
| <b>PIPER</b><br>PA-28-140, 150, 160 CHEROKEE  | STC-SA793CE<br>ROBERT WILLIAMS (AVCON)      | LYCOMING O-360-A1A<br>180 HP @ 2700 RPM        | HC-C2YK-1BF<br>F7666A-2             | 74"                   |                       | 791                  |
| <b>PIPER</b><br>PA-28-180 CHEROKEE            | SA2213WE<br>Pacific Propeller International | LYCOMING O-360-A1A<br>180 HP @ 2700 RPM        | HC-C2YK-1BF<br>F7666A               | 76"                   | 835-33P<br>835-33     | 790                  |
| <b>PIPER</b><br>PA-28-201T TURBO DAKOTA       | 2A13  | CONTINENTAL TSIO-360-FB<br>200 HP @ 2575 RPM   | BHC-C2YF-1( )F<br>F8459A-8R         | 76.0" TO 75.0"        | C-3568                | 795                  |
| <b>PIPER</b><br>PA-28-235 CHEROKEE PATHFINDER | 2A13  | LYCOMING O-540-B4B5<br>235 HP @ 2575 RPM       | HC-C2YK-1( )F<br>F8468A-4           | 80.0" NO CUT OFF      |                       | 800                  |
| <b>PIPER</b><br>PA-28-235 CHARGER/PATHFINDER  | SA01190LA<br>HARTZELL PROPELLER             | LYCOMING O-540-B2B5, B4B5<br>235 HP @ 2575 RPM | HC-C3YR-1RF<br>F7693F               | 78" TO 77"            | C-3535-1<br>C-3535-1P | 1697                 |
| <b>PIPER</b><br>PA-28-236 DAKOTA              | 2A13  | LYCOMING O-540-J3A5D<br>235 HP @ 2400 RPM      | HC-F2YR-1F<br>F8468A-4R             | 80.0" TO 78.0"        | C-3568<br>C-3568-P    | 801                  |
| <b>PIPER</b><br>PA-28-236 DAKOTA              | SA01191LA<br>HARTZELL PROPELLER             | LYCOMING O-540-J3A5D<br>235 HP @ 2400 RPM      | HC-F3YR-1ARF<br>F7693F              | 78" TO 76"            | C-3570<br>C-3570-P    | 1713                 |
| <b>PIPER</b><br>PA-28-180 CHEROKEE            | SA556SW<br>HUTCHINSON ACFT SVC              | LYCOMING O-360-A1A<br>180 HP @ 2700 RPM        | HC-C2YK-1BF<br>F7666A-2R            | 76"                   | 835-33P<br>835-33     | 2722                 |
| <b>PIPER</b><br>PA-28R-180 ARROW              | 2A13  | LYCOMING IO-360-B1E<br>180 HP @ 2700 RPM       | HC-C2YK-1( )(F)<br>F7666A           | 76.0" TO 74.5"        |                       | 789                  |

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|--|--|--|----------------------------------|-----------------------|--|----------------------|
| PIPER<br>PA-28R-180 ARROW                                  | STC-SA4528NM<br>HARTZELL PROPELLER     | LYCOMING IO-360-B1E<br>180 HP @ 2700 RPM         | HC-C3YR-1RF<br>F7282             | 74.0" TO 73.0"        | 835-47<br>835-52P<br>835-47P<br>103629F2<br>103629F1<br>103629 | 1395                 |
| PIPER<br>PA-28R-200 ARROW II                               | 2A13                                   | LYCOMING IO-360-C1C<br>200 HP @ 2700 RPM         | HC-C2YK-1( )(F)<br>F7666A-2      | 74.0" TO 72.5"        |  | 792                  |
| PIPER<br>PA-28R-200,-201, PA-28RT-201<br>ARROW II, III, IV | STC-SA4528NM<br>HARTZELL PROPELLER     | LYCOMING IO-360-C1C(6)<br>200 HP @ 2700 RPM      | HC-C3YR-1RF<br>F7282<br>F7282*1  | 74.0" TO 73.0"        | 835-52P<br>835-47P<br>835-47<br>103629F2<br>103629F1<br>103629 | 793                  |
| PIPER<br>PA-28R-201T TURBO ARROW III                       | 2A13                                   | CONTINENTAL TSIO-360-F, -FB<br>200 HP @ 2575 RPM | BHC-C2YF-1BF<br>F8459A-8R        | 76.0" TO 75.0"        | C-3568   | 797                  |
| PIPER<br>PA-28R-201 ARROW III                              | 2A13                                   | LYCOMING IO-360-C1C6<br>200 HP @ 2700 RPM        | HC-C2YK-1BF<br>F7666A-2R         | 74" TO 72"            |  | 794                  |
| PIPER<br>PA-28R(T)-201T TURBO ARROW III<br>(IV)            | SA01024CH<br>HARTZELL PROPELLER        | CONTINENTAL TSIO-360-F,FB<br>200 HP @ 2575 RPM   | PHC-C3YF-1RF<br>F7663-4T         | 74.0" TO 72.0"        | C-3570<br>C-3570-P   | 1507                 |
| PIPER<br>PA-28R-180 ARROW                                  | SA02555CH<br>PROFESSIONAL PILOT        | LYCOMING IO-360-B1E<br>180 HP @ 2700 RPM         | HC-C2YR-1BFP<br>F7497*1          | 74" to 72.5"          | 835-33P<br>835-33<br>103585<br>103585F1<br>835-54P<br>835-54   | 2751                 |

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|--|--|---|--|-----------------------|--|----------------------|
| PIPER<br>PA-28R-200 ARROW                          | SA02555CH<br>PROFESSIONAL PILOTS           | LYCOMING IO-360-C1C(6)<br>200 HP @ 2700 RPM   | HC-C2YR-1BFP<br>F7497*1                    | 74" to 72"            | 103585F1<br>103585<br>835-33P<br>835-33<br>835-54P<br>835-54 | 2776                 |
| PIPER<br>PA-28RT-201T TURBO ARROW IV               | 2A13                                       | CONTINENTAL TSIO-360-FB<br>200 HP @ 2575 RPM  | BHC-C2YF-1( )F<br>F8459A-8R                | 76.0" TO 75.0"        | C-3568<br>C-2298-2   | 798                  |
| PIPER<br>PA-28RT-201T TURBO ARROW IV               | 2A13                                       | CONTINENTAL TSIO-360-FB<br>200 HP @ 2575 RPM  | PHC-C3YF-1( )F<br>F7663-2R                 | 76.0" TO 72.0"        | C-3570   | 799                  |
| PIPER<br>PA-28RT-201 ARROW IV                      | 2A13                                       | LYCOMING IO-360-C1C6<br>200 HP @ 2700 RPM     | HC-C2YK-1( )F<br>F7666A-2R                 | 74.0" TO 72.0"        |  | 796                  |
| PIPER<br>PA-30 TWIN COMANCHE                       | A1EA                                       | LYCOMING IO-320-B1A<br>160 HP @ 2700 RPM      | HC-E2YL-2,-2A,-2B(S)(F),-2C,-2D<br>F7663-4 | 72" TO 70"            |  | 802                  |
| PIPER<br>PA-30 C/R (left side) TWIN COMANCHE       | A1EA                                       | LYCOMING IO-320-B1A<br>160 HP @ 2700 RPM      | HC-E2YL-2(B, BS)(F)<br>F7663-4             | 72"                   |  | 803                  |
| PIPER<br>PA-30 C/R (right side) TWIN<br>COMANCHE   | A1EA                                       | LYCOMING LIO-320-B1A<br>160 HP @ 2700 RPM     | HC-E2YL-2(BL, BLS)(F)<br>FJ7663-4          | 72"                   |  | 1773                 |
| PIPER<br>PA-30 TWIN COMANCHE                       | STC-SA214CH<br>KNOTS 2 U INC.              | LYCOMING IO-320-B1A<br>160 HP @ 2700 RPM      | HC-E2YL-2BSF<br>F7663D-4                   | 72"-70"               | D-5749-P   | 1211                 |
| PIPER<br>PA-30, PA39 (LEFT SIDE) TWIN<br>COMANCHE  | STC-SA557GL<br>HARTZELL PROPELLER          | LYCOMING IO-320-(B,C)1A<br>160 HP @ 2700 RPM  | HC-E2YL-2BSF<br>F7663-6Q                   | 70"                   | D-5749<br>D-5749-P   | 805                  |
| PIPER<br>PA-30, PA39 (RIGHT SIDE) TWIN<br>COMANCHE | STC-SA557GL<br>HARTZELL PROPELLER          | LYCOMING LIO-320-(B,C)1A<br>160 HP @ 2700 RPM | HC-E2YL-2BLSF<br>FJ7663-6Q                 | 70"                   | D-5749-L<br>D-5749-LP  | 2538                 |

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|---|--|--|--|-----------------------|-----------------|----------------------|
| PIPER<br>PA-30 TWIN COMANCHE              | STC-SA1151SW<br>J.W. MILLER            | LYCOMING IO-360-C1C, -C1F<br>200 HP @ 2700 RPM           | HC-C2YK-2CUF<br>FC7666A-4*1  | 72" TO 70"            | 836-29          | 804                  |
| PIPER<br>PA-31 NAVAJO                     | A20SO                                  | LYCOMING TIO-540-A1A, A1B, A2A, A2B<br>310 HP @ 2575 RPM | HC-E2YR-2BTF<br>FC8475-4<br>FC8475B-4                                  | 80" TO 78"            |                 | 807                  |
| PIPER<br>PA-31 NAVAJO                     | A20SO                                  | LYCOMING TIO-540-A2C<br>310 HP @ 2575 RPM                | HC-E3YR-2(A)(T)F<br>FC8468-6R<br>FC8468B-6R*1                          | 80" TO 78"            |                 | 1570                 |
| PIPER<br>PA-31-T2 CHEYENNE IIXL           | A8EA                                   | PRATT & WHITNEY PT6A-135<br>620 HP @ 1900 RPM            | HC-B3TN-3B<br>T10178B-8R*1<br>T10178NB-8R*1                            | 93.5" TO 93"          |                 | 821                  |
| PIPER<br>PA-31-T1 CHEYENNE I/IA           | STC-SA1787NM<br>AERO AIR               | PRATT & WHITNEY PT6A-11<br>500 HP @ 2200 RPM             | HC-B3TN-3B<br>T10178-10Q<br>T10178N-10Q                                | 91.5"                 |                 | 822                  |
| PIPER<br>PA-31-T2 CHEYENNE IIXL           | STC-SA4743NM<br>AERO AIR               | PRATT & WHITNEY PT6A-135<br>620 HP @ 1900 RPM            | HC-B3TN-3B<br>T10178-10Q<br>T10178B-10Q<br>T10178N-10Q<br>T10178NB-10Q | 91"                   |                 | 825                  |
| PIPER<br>PA-31-300 NAVAJO                 | A20SO                                  | LYCOMING IO-540-M1A5<br>300 HP @ 2700 RPM                | HC-E2YR-2B(T)<br>FC8475A-4   | 80" TO 78"            |                 | 806                  |
| PIPER<br>PA-31-310 NAVAJO                 | A20SO                                  | LYCOMING TIO-540-A2A, -A2B<br>310 HP @ 2575 RPM          | HC-E3YR-2(A)(T)(F)<br>FC8468-6R<br>FC8468B-6R*1                        | 80" TO 78"            |                 | 808                  |
| PIPER<br>PA-31-325 (left side) NAVAJO C/R | A20SO                                  | LYCOMING TIO-540-F2BD<br>325 HP @ 2575 RPM               | HC-E3YR-2A(T)F<br>FC8468-6R<br>FC8468B-6R*1                            | 80" TO 78"            |                 | 810                  |

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|---|---|---|--|-----------------------|-----------------------|----------------------|
| <b>PIPER</b><br>PA-31-325 (right side) NAVAJO C/R                       | A20SO                                   | LYCOMING LTIO-540-F2BD (right)<br>325 HP @ 2575 RPM | HC-E3YR-2AL(T)F<br>FJC8468-6R<br>FJC8468B-6R | 80" TO 78"            |                       | 811                  |
| <b>PIPER</b><br>PA-31-325, -350 (left side) NAVAJO CHIEFTAIN (PANTHER)  | STC-SA970S0/1151SO<br>COLEMILL          | LYCOMING TIO-540-J2BD<br>350 HP @ 2575 RPM          | HC-C4YR-2<br>FC7663D-6Q<br>FC7663DB-6Q       | 73.75"                | D-4511-P<br>D-4511    | 1116                 |
| <b>PIPER</b><br>PA-31-325, -350 (right side) NAVAJO CHIEFTAIN (PANTHER) | STC-SA970S0/1151SO<br>COLEMILL          | LYCOMING LTIO-540-J2BD<br>350 HP @ 2575 RPM         | HC-C4YR-2L<br>FJC7663D-6Q                    | 73.75"                | D-4511-LP<br>D-4511-L | 817                  |
| <b>PIPER</b><br>PA-31-350 (left side) NAVAJO CHIEFTAIN, T-1020          | A20SO                                   | LYCOMING TIO-540-J2B, -J2BD<br>350 HP @ 2575 RPM    | HC-E3YR-2A(T)(F)<br>FC8468-6R                | 80.0" TO 78.0"        |                       | 814                  |
| <b>PIPER</b><br>PA-31-350 (right side) NAVAJO CHIEFTAIN, T-1020         | A20SO                                   | LYCOMING LTIO-540-J2B, -J2BD<br>350 HP @ 2575 RPM   | HC-E3YR-2AL(T)(F)<br>FJC8468-6R              | 80.0" TO 78.0"        |                       | 815                  |
| <b>PIPER</b><br>PA-31-350 (left side) NAVAJO                            | STC-SA3642NM<br>CAPE SMITH AIR          | LYCOMING TIO-540-J2BD<br>350 HP @ 2575 RPM          | HC-E3YR-2ATF<br>FC8468B-8Q                   | 78"                   |                       | 818                  |
| <b>PIPER</b><br>PA-31-350 (right side) NAVAJO                           | STC-SA3642NM<br>CAPE SMITH AIR          | LYCOMING LTIO-540-J2BD<br>350 HP @ 2575 RPM         | HC-E3YR-2ALTF<br>FJC8468B-8Q                 | 78"                   |                       | 1951                 |
| <b>PIPER</b><br>PA-31P PRESSURIZED NAVAJO                               | A8EA                                    | LYCOMING TIGO-541-E<br>425 HP @ 2133 RPM            | HC-C3YN-2L(A)UF<br>FJC9684-3R<br>FJC9684B-3R | 93" NO CUT OFF        |                       | 819                  |
| <b>PIPER</b><br>PA-31P COMANCHERO 500                                   | STC SA4268SW<br>SCHAFFER AIRCRAFT CORP. | PRATT & WHITNEY PT6A-135<br>620 HP @ 1900 RPM       | HC-B3TN-3B<br>T10173ANB-6Q                   | 95.5"                 | D-4258                | 823                  |

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|---|--|---|---|-----------------------|-----------------------|----------------------|
| <b>PIPER</b><br>PA-31P-350 (left side) MOJAVE     | A8EA   | LYCOMING TIO-540-V2AD (left)<br>350 HP @ 2600 RPM   | HC-I3YR-2UF<br>FC7854<br>FC7854K  | 80" NO CUT OFF        | D-4841                | <b>813</b>           |
| <b>PIPER</b><br>PA-31P-350 (right side) MOJAVE    | A8EA   | LYCOMING LTIO-540-V2AD (right)<br>350 HP @ 2600 RPM | HC-I3YR-2LUF<br>FJC7854<br>FJC7854K   | 80" NO CUT OFF        | D-4841                | <b>816</b>           |
| <b>PIPER</b><br>PA-31T, PA-31T1, PA-31T3 CHEYENNE | A8EA   | PRATT & WHITNEY PT6A-28, -11<br>620 HP @ 2200 RPM   | HC-B3TN-3B<br>T10173-8<br>T10173B-8<br>T10173K-8<br>T10173N-8<br>T10173NB-8<br>T10173NK-8 | 93.5" TO 93.0"        | D-4258                | <b>820</b>           |
| <b>PIPER</b><br>PA-31T                            | STC-SA4335SW<br>STANDARD AERO INC.             | PRATT & WHITNEY PT6A-135(A)<br>750 HP @ 1900 RPM    | HC-B3TN-3C<br>T10178B-8R*1<br>T10178NB-8R*1<br>T10178NK-8R                                | 93.5"                 | D-4258                | <b>824</b>           |
| <b>PIPER</b><br>PA-31T, PA-31T1, PA-31T2 CHEYENNE | STC-SA00863SE<br>Blackhawk Modifications, Inc. | PRATT & WHITNEY PT6A-135(A)<br>620 HP @ 1900 RPM    | HC-E4N-3N<br>D8990S<br>D8990SB  | 90.0" to 89.0"        | D-5710-4P<br>D-5710-4 | <b>1784</b>          |
| <b>PIPER</b><br>PA-31T, PA-31T1 CHEYENNE          | STC-SA01248SE<br>Blackhawk Modifications, Inc. | PRATT & WHITNEY PT6A-11, -28<br>620 HP @ 2200 RPM   | HC-E4N-3N<br>D8990S<br>D8990SB  | 90.0" to 89.0"        | D-5710-4P<br>D-5710-4 | <b>2836</b>          |
| <b>PIPER</b><br>PA-32-260 CHEROKEE SIX 260        | A3SO   | LYCOMING O-540-E4B5<br>260 HP @ 2700 RPM            | HC-C2YK-1( )F<br>F8477-2  | 82" TO 80.5"          |                       | <b>827</b>           |

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| <b>PIPER</b><br>PA-32-260 CHEROKEE SIX 260                                     | STC-SA1105CH<br>HARTZELL PROPELLER        | LYCOMING O-540-E4B5<br>260 HP @ 2700 RPM                                | HC-C3YR-1RF<br>F7693F<br>F7693F*1             | 78" TO 77"            | C-3535-1P<br>C-3535-1                      | <b>1593</b>          |
| <b>PIPER</b><br>PA-32-300, PA-32S-300 CHEROKEE SIX 300                         | A3SO                                      | LYCOMING IO-540-K1A5, -K1G5 (-K1A5 ONLY, -32S-300)<br>300 HP @ 2700 RPM | HC-C2YK-1BF<br>F8475R                         | 84.0" TO 82.3"        |  | <b>1318</b>          |
| <b>PIPER</b><br>PA-32-300, PA-32S-300 CHEROKEE SIX 300                         | A3SO                                      | LYCOMING IO-540-K1A5, -K1G5 (-K1A5 ONLY, -32S-300)<br>300 HP @ 2700 RPM | HC-C2YK-1BF<br>F8475D-4                       | 80.0" TO 78.5"        |  | <b>829</b>           |
| <b>PIPER</b><br>PA-32-300, PA-32S-300 CHEROKEE SIX 300                         | A3SO                                      | LYCOMING IO-540-K1A5, -K1G5<br>300 HP @ 2700 RPM                        | HC-C2YK-1( )F<br>F8475R                       | 84" TO 82.3"          |  | <b>828</b>           |
| <b>PIPER</b><br>PA-32R-301, PA-32-301FT SARATOGA II HP, PIPER 6X               | STC SA02256CH<br>PROFESSIONAL PILOTS INC. | LYCOMING IO-540-K1G5(D)<br>300 HP @ 2700 RPM                            | HC-I3YR-1RF<br>F7693F                         | 78                    | C-3575-2P<br>C-3575-1P                     | <b>2620</b>          |
| <b>PIPER</b><br>PA-32-301 SARATOGA   | A3SO                                      | LYCOMING IO-540-K1G5<br>300 HP @ 2700 RPM                               | HC-C3YR-1( )F<br>F7663R                       | 78" TO 76"            | 835-47                                     | <b>834</b>           |
| <b>PIPER</b><br>PA-32-301 SARATOGA   | A3SO                                      | LYCOMING IO-540-K1G5<br>300 HP @ 2700 RPM                               | HC-C2YR-1( )F<br>F8475D-4                     | 80.0" TO 78.5"        |  | <b>833</b>           |
| <b>PIPER</b><br>PA-32-301T TURBO SARATOGA                                      | A3SO                                      | LYCOMING TIO-540-S1AD<br>300 HP @ 2700 RPM                              | HC-E2YR-1( )F<br>F8477-4                      | 80" TO 78.5"          | A-2298-2                                   | <b>838</b>           |
| <b>PIPER</b><br>PA-32(R,S,RT)-300/PA-32(-,R)-301 CHEROKEE SIX, LANCE, SARATOGA | STC SA02256CH<br>PROFESSIONAL PILOTS, INC | LYCOMING IO-540-K1A5(D), -K1G5(D)<br>300 HP @ 2700 RPM                  | HC-C3YR-1RF<br>F7693F<br>F7693F*1<br>F7693F*2 | 78"                   | 835-47<br>C-3535-1<br>C-3535-1P<br>835-47P | <b>2451</b>          |
| <b>PIPER</b><br>PA-32-301XTC 6XT   | A3SO                                      | LYCOMING TIO-540-AH1A<br>300 HP @ 2500 RPM                              | HC-I3YR-1RF<br>F7663DR                        | 78.0"                 | C-3575-1P                                  | <b>1976</b>          |



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|--|--|--|------------------------------------|-----------------------|--|----------------------|
| <b>PIPER</b><br>PA-32-301T TURBO SARATOGA                  | A3SO                                   | LYCOMING TIO-540-S1AD<br>300 HP @ 2700 RPM                                     | HC-E3YR-1( R)F<br>F7673DR          | 78.0" TO 76.0"        | C-3575-1<br>C-3575                             | <b>839</b>           |
| <b>PIPER</b><br>PA-32R-301T TURBO SARATOGA SP              | A3SO                                   | LYCOMING TIO-540-S1AD<br>300 HP @ 2700 RPM                                     | HC-E3YR-1( )F<br>F7673DR           | 78.0" TO 76.0"        | C-3575<br>C-3575-P                             | <b>840</b>           |
| <b>PIPER</b><br>PA-32-301FT 6X                             | A3SO                                   | LYCOMING IO-540-K1G5<br>300 HP @ 2700 RPM                                      | HC-I3YR-1RF<br>F7663DR             | 78.0" TO 77.0"        | C-3575-1P                                      | <b>1975</b>          |
| <b>PIPER</b><br>PA-32R-300, PA-32RT-300 LANCE,<br>LANCE II | A3SO                                   | LYCOMING IO-540-K1A5D, -K1G5D (-<br>K1A5D ONLY, -32R-300)<br>300 HP @ 2700 RPM | HC-C2YK-1BF<br>F8475D-4            | 80.0" TO 78.5"        |  | <b>830</b>           |
| <b>PIPER</b><br>PA-32RT-300T TURBO LANCE II                | A3SO                                   | LYCOMING TIO-540-S1AD<br>300 HP @ 2700 RPM                                     | HC-E2YR-1( )F<br>F8477-4           | 80" TO 78.5"          | A-2298-2                                       | <b>831</b>           |
| <b>PIPER</b><br>PA-32R-301 SARATOGA SP                     | A3SO                                   | LYCOMING IO-540-K1G5D<br>300 HP @ 2700 RPM                                     | HC-C3YR-1( )F<br>F7663R            | 78" TO 76"            | 835-47   | <b>835</b>           |
| <b>PIPER</b><br>PA-32R-301 SARATOGA II HP                  | A3SO                                   | LYCOMING IO-540-K1G5<br>300 HP @ 2700 RPM                                      | HC-I3YR-1RF<br>F7663DR<br>F7663DRB | 78.0" TO 77.0"        | C-3575-2P<br>C-3575-2<br>C-3575-1P             | <b>837</b>           |
| <b>PIPER</b><br>PA-32R-301 SARATOGA SP                     | A3SO                                   | LYCOMING IO-540-K1G5D<br>300 HP @ 2700 RPM                                     | HC-C2YR-1( )<br>F8475D-4           | 80.0" TO 78.5"        | A-2298-2                                       | <b>836</b>           |
| <b>PIPER</b><br>PA-32R-301T TURBO SARATOGA SP              | A3SO                                   | LYCOMING TIO-540-S1AD<br>300 HP @ 2700 RPM                                     | HC-E2YR-1( )F<br>F8477-4           | 80" TO 78.5"          | A-2298-2                                       | <b>841</b>           |
| <b>PIPER</b><br>PA-32R-301T SARATOGA II TC                 | A3SO                                   | LYCOMING TIO-540-AH1A<br>300 HP @ 2500 RPM                                     | HC-I3YR-1RF<br>F7663DR<br>F7663DRB | 78.0"                 | C-3575-2P<br>C-3575-2<br>C-3575-1P<br>C-3575-1 | <b>1248</b>          |

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|---|--|--|--|-----------------------|---|----------------------|
| <b>PIPER</b><br>PA-32-300, -32R(T)-300 LANCE, LANCE II                                    | STC-SA1791GL<br><br>HARTZELL PROPELLER | LYCOMING IO-540-K1A4, -K1G5 (PA-32R-300, IO-540-K1A5D, -K1G5D; PA-32RT-300, IO-540-K1G5D)<br><br>300 HP @ 2700 RPM | HC-C3YR-1RF<br><br>F7663R<br>F7663R*1  | 78" TO 76"            | 835-47P<br>835-47<br>103629F2<br>103629F1<br>103629 | 1164                 |
| <b>PIPER</b><br>PA-32-300, -32R(T)-300 LANCE, LANCE II                                    | STC-SA1791GL<br><br>HARTZELL PROPELLER | LYCOMING IO-540-K1A5, -K1G5 (PA-32R-300, IO-540-K1A5D, -K1G5D; PA-32RT-300, IO-540-K1G5D)<br><br>300 HP @ 2700 RPM | HC-C3YR-1( )F<br><br>F7663R  | 78" TO 76"            | A-2295-1<br>A-2295-1P                               | 2581                 |
| <b>PIPER</b><br>PA-32RT-300T TURBO LANCE II   | SA3181NM<br>HARTZELL PROPELLER         | LYCOMING TIO-540-S1AD<br><br>300 HP @ 2700 RPM   | HC-E3YR-1RF<br>F7673DR   | 78.0" TO 76.0"        | C-3575-P  | 2516                 |
| <b>PIPER</b><br>PA-32RT-300T, PA-32-301T, PA-32R-301T TURBO LANCE II, TURBO SARATOGA (SP) | SA04274CH<br>HARTZELL PROPELLER        | LYCOMING TIO-540-S1AD<br><br>300 HP @ 2700 RPM   | HC-E3YR-1RF<br>F7693F+2  | 80"-78"               | C-3575-P  | 3532                 |
| <b>PIPER</b><br>PA-32S-300 CHEROKEE SIX   | STC-SA932EA<br>PK FLOAT DIVISION       | LYCOMING IO-540-K1A5<br><br>300 HP @ 2700 RPM  | HC-C2YR-1BF<br>F8475+2   | 86"                   |   | 832                  |
| <b>PIPER</b><br>PA-34-200T (right side) SENECA II   | A7SO                                   | CONTINENTAL LTSIO-360-E, -EB<br><br>215 HP @ 2575 RPM  | BHC-C2YF-2( )L( )U)F ("U" for -E engine only)<br>FJC8459-8R<br>FJC8459B-8R<br>FJC8459B-8R*1  | 76.0" TO 75.0"        | C-2285-2L   | 845                  |
| <b>PIPER</b><br>PA-34-200T (left side) SENECA II  | A7SO                                   | CONTINENTAL TSIO-360-E, -EB<br><br>215 HP @ 2575 RPM   | BHC-C2YF-2( )UF (BHC-C2YF-2( )F, - E Engine only)<br>FC8459-8R<br>FC8459B-8R<br>FC8459B-8R*3 | 76.0" TO 75.0"        | C-2285-2  | 844                  |
| <b>PIPER</b><br>PA-34-200 (left side) SENECA  | A7SO                                   | LYCOMING IO-360-C1E6<br><br>200 HP @ 2700 RPM  | HC-C2YK-2( )E(U)(F), -2CGUF<br>FC7666A<br>FC7666AB   | 76.0" TO 74.0"        |   | 1917                 |

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|--|--|--|---|-----------------------|-----------------------|----------------------|
| <b>PIPER</b><br>PA-34-200 (left side) SENECA       | A7SO                                   | LYCOMING IO-360-C1E6<br>200 HP @ 2700 RPM        | HC-C2YK-2( )E(U)(F)<br>FC7666A<br>FC7666AB    | 76.0" TO 74.0"        |                       | <b>842</b>           |
| <b>PIPER</b><br>PA-34-200 (right side) SENECA      | A7SO                                   | LYCOMING LIO-360-C1E6<br>200 HP @ 2700 RPM       | HC-C2YK-2CLGUF<br>FJC7666A<br>FJC7666AB       | 76.0" TO 74.0"        |                       | <b>1916</b>          |
| <b>PIPER</b><br>PA-34-200 (right side) SENECA      | A7SO                                   | LYCOMING LIO-360-C1E6<br>200 HP @ 2700 RPM       | HC-C2YK-2( )LE(U)(F)<br>FJC7666A<br>FJC7666AB | 76.0" TO 74.0"        |                       | <b>843</b>           |
| <b>PIPER</b><br>PA-34-200T (left side) SENECA II   | STC-SA1118SO<br>HARTZELL PROPELLER     | CONTINENTAL TSIO-360-E, -EB<br>200 HP @ 2575 RPM | PHC-C3YF-2KUF<br>FC7663-2R<br>FC7663-2R*2     | 76.0" TO 75.0"        | C-4558-3<br>C-4558-3P | <b>1172</b>          |
| <b>PIPER</b><br>PA-34-200T (right side) SENECA II  | STC-SA1118SO<br>HARTZELL PROPELLER     | CONTINENTAL LTSIO-360-E(B)<br>200 HP @ 2575 RPM  | PHC-C3YF-2LKUF<br>FJC7663-2R<br>FJC7663-2R*1  | 76.0" TO 75.0"        | C-4558-3P<br>C-4558-3 | <b>849</b>           |
| <b>PIPER</b><br>PA-34-220T (left side) SENECA III  | STC-SA649GL<br>HARTZELL PROPELLER      | CONTINENTAL TSIO-360-KB<br>220 HP @ 2800 RPM     | PHC-C3YF-2KUF<br>FC7453<br>FC7453*1           | 76.0" TO 75.0"        | C-4558-3P<br>C-4558-3 | <b>850</b>           |
| <b>PIPER</b><br>PA-34-220T (right side) SENECA III | STC-SA649GL<br>HARTZELL PROPELLER      | CONTINENTAL LTSIO-360-KB<br>220 HP @ 2800 RPM    | PHC-C3YF-2LKUF<br>FJC7453<br>FJC7453*1        | 76.0" TO 75.0"        | C-4558-3P<br>C-4558-3 | <b>1198</b>          |
| <b>PIPER</b><br>PA-34-220T (left side) SENECA III  | A7SO                                   | CONTINENTAL TSIO-360-KB<br>220 HP @ 2800 RPM     | BHC-C2YF-2CKUF<br>FC8459-8R<br>FC8459B-8R*1   | 76.0" TO 75.0"        |                       | <b>846</b>           |

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|--|---|--|--|-----------------------|-------------------------|----------------------|
| <b>PIPER</b><br>PA-34-220T (left side) SENECA III  | A7SO                                      | CONTINENTAL TSIO-360-KB<br>220 HP @ 2800 RPM                         | BHC-C2YF-2CKUF<br>FC8459-8R                    | 76.0" TO 75.0"        | C-2285-2P<br>C-2285-2   | <b>1322</b>          |
| <b>PIPER</b><br>PA-34-220T (right side) SENECA III | A7SO                                      | CONTINENTAL LTSIO-360-KB<br>220 HP @ 2800 RPM                        | BHC-C2YF-2CLKUF<br>FJC8459-8R                  | 76.0" TO 75.0"        | C-2285-2L<br>C-2285-2LP | <b>1323</b>          |
| <b>PIPER</b><br>PA-34-220T (right side) SENECA III | A7SO                                      | CONTINENTAL LTSIO-360-KB<br>220 HP @ 2800 RPM                        | BHC-C2YF-2CLKUF<br>FJC8459-8R<br>FJC8459B-8R*2 | 76.0" TO 75.0"        |                         | <b>847</b>           |
| <b>PIPER</b><br>PA-34-220T (left side) SENECA V    | A7SO                                      | CONTINENTAL TSIO-360-RB<br>220 HP @ 2600 RPM                         | BHC-J2YF-2CUF<br>FC8459-8R<br>FC8459B-8R*2     | 76"                   |                         | <b>1320</b>          |
| <b>PIPER</b><br>PA-34-220T (right side) SENECA V   | A7SO                                      | CONTINENTAL LTSIO-360-RB<br>220 HP @ 2600 RPM                        | BHC-J2YF-2CLUF<br>FJC8459-8R<br>FJC8459B-8R*3  | 76"                   |                         | <b>1321</b>          |
| <b>PIPER</b><br>PA-36-285 BRAVE                    | A9SO, A10SO                               | CONTINENTAL 6-285-B, -C, -BA, -CA<br>285 HP @ 2000 RPM               | HC-C2YF-1BF<br>F9587A                          | 95" TO 93"            | A-4203                  | <b>851</b>           |
| <b>PIPER</b><br>PA-36-285 BRAVE                    | A9SO, A10SO                               | CONTINENTAL 6-285-B, -C, -BA, -CA<br>285 HP @ 2000 RPM               | HC-C3YF-1RF<br>F9684-1                         | 95" TO 93"            | A-4203-1                | <b>852</b>           |
| <b>PIPER</b><br>PA-36-285 BRAVE                    | STC-SA1747CE<br>CLINTON ANDERSON          | LYCOMING IO-540-K1G5<br>300 HP @ 2700 RPM                            | HC-C3YR-1( )F<br>F8475R                        | 86"                   |                         | <b>853</b>           |
| <b>PIPER</b><br>PA-36-285, -300 BRAVE              | STC-SA3452WE<br>JOHNSTON AIRCRAFT SERVICE | LYCOMING IO-720-A1B<br>400 HP @ 2650 RPM                             | HC-C3YR-1RF<br>F8475R                          | 86" TO 84.5"          | A-2295-1                | <b>857</b>           |
| <b>PIPER</b><br>PA-36-285, -300, -375 BRAVE        | SA00014CH<br>Souther Field Aviation Inc.  | PRATT & WHITNEY PT6(A,B)-20, -20A, -20B, -6/C20<br>375 HP @ 2200 RPM | HC-B3TN-3B or HC-B3TN-3D<br>T10282N-4R         | 98-94"                | C-3065<br>C-3065-P      | <b>2750</b>          |

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|--|--|---|--|-----------------------|--------------------|----------------------|
| <b>PIPER</b><br>PA-36-300 BRAVE                      | A9SO, A10SO                            | LYCOMING IO-540-K1G5<br>300 HP @ 2700 RPM             | HC-C2YK-1( )F<br>F8475R                  | 84" TO 82.3"          |                    | <b>854</b>           |
| <b>PIPER</b><br>PA-36-300 BRAVE                      | A9SO, A10SO                            | LYCOMING IO-540-KIG5<br>300 HP @ 2700 RPM             | HC-C3YR-1( )F<br>F8468A-6                | 80" TO 78"            | 835-36P<br>835-36  | <b>855</b>           |
| <b>PIPER</b><br>PA-36-(285, 300, 375)* BRAVE         | SA4522NM<br>JOHNSTON AIRCRAFT SERVICE  | LYCOMING IO-720-A1B, -D1C, -D1CD<br>400 HP @ 2650 RPM | HC-C3YR-1RF<br>F8483                     | 86.0" TO 80.0"        | A-2295-1           | <b>858</b>           |
| <b>PIPER</b><br>PA-36-375 BRAVE                      | A9SO, A10SO                            | LYCOMING IO-720-D1C, D1CD<br>375 HP @ 2500 RPM        | HC-C3YR-1RF<br>F8475R                    | 86" TO 84"            | 835-36             | <b>856</b>           |
| <b>PIPER</b><br>PA-39 (left side) TWIN COMANCHE C/R  | A1EA                                   | LYCOMING IO-320-B1A<br>160 HP @ 2700 RPM              | HC-E2YL-2BSF<br>F7663-4                  | 72" TO 70"            |                    | <b>859</b>           |
| <b>PIPER</b><br>PA-39 (right side) TWIN COMANCHE C/R | A1EA                                   | LYCOMING LIO-320-B1A<br>160 HP @ 2700 RPM             | HC-E2YL-2BLSF<br>FJ7663-4                | 72" TO 70"            |                    | <b>860</b>           |
| <b>PIPER</b><br>PA-39 (left side) TWIN COMANCHE C/R  | STC-SA214CH<br>KNOTS 2 U INC.          | LYCOMING IO-320-B1A<br>160 HP @ 2700 RPM              | HC-E2YL-2BSF<br>F7663D-4                 | 72"-70"               | D-5749-P           | <b>1213</b>          |
| <b>PIPER</b><br>PA-39 (right side) TWIN COMANCHE C/R | STC-SA214CH<br>KNOTS 2 U INC.          | LYCOMING LIO-320-B1A<br>160 HP @ 2700 RPM             | HC-E2YL-2BLSF<br>FJ7663D-4               | 72"-70"               | D-5749-LP          | <b>1212</b>          |
| <b>PIPER</b><br>PA-40 (left side) ARAPAHO            | A1EA                                   | LYCOMING IO-320-B1A<br>160 HP @ 2700 RPM              | HC-E2YL-2BS(F)<br>F7663-4<br>F7663-4R    | 72" TO 70"            |                    | <b>861</b>           |
| <b>PIPER</b><br>PA-40 (right side) ARAPAHO           | A1EA                                   | LYCOMING LIO-320-B1A<br>160 HP @ 2700 RPM             | HC-E2YL-2BLS(F)<br>FJ7663-4<br>FJ7663-4R | 72" TO 70"            |                    | <b>862</b>           |
| <b>PIPER</b><br>PA-24-400 COMMANCHE                  | 337 FORM<br>MIKE SMITH                 | LYCOMING IO-720-A1B<br>400 HP @ 2650 RPM              | HC-C3YR-1RF<br>F8475-5Q                  | 81"                   | C-3570-P<br>C-3570 | <b>2741</b>          |

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|--|--|---|--|-----------------------|-----------------------|----------------------|
| <b>PIPER</b><br>PA-42 CHEYENNE III                     | A23SO                                  | PRATT & WHITNEY PT6A-41<br>720 HP @ 2000 RPM      | HC-B3TN-3B, -3K<br>T10173AB-6Q<br>T10173ANB-6Q | 95.5" TO 95"          | D-4258                | <b>863</b>           |
| <b>PIPER</b><br>PA-42-720, -720R CHEYENNE IIIA         | A23SO,A32SO                            | PRATT & WHITNEY PT6A-61<br>720 HP @ 2000 RPM      | HC-B3TN-3B, -3K<br>T10173AB-6Q<br>T10173ANB-6Q | 95.5" TO 95"          | D-4258                | <b>864</b>           |
| <b>PIPER</b><br>PA-42-720R CHEYENNE III                | A32SO                                  | PRATT & WHITNEY PT6A-61<br>850 HP @ 2000 RPM      | HC-B3TN-3K<br>T10173DB-6Q<br>T10173DNB-6Q      | 95"                   | D-4258                | <b>1052</b>          |
| <b>PIPER</b><br>PA-44-180 (left side) SEMINOLE         | A19SO                                  | LYCOMING O-360-E1A6D<br>180 HP @ 2700 RPM         | HC-C3YR-2EUF<br>FC7663-5R                      | 73" TO 72"            | C-4558-3              | <b>867</b>           |
| <b>PIPER</b><br>PA-44-180 (left side) SEMINOLE         | A19SO                                  | LYCOMING O-360-A1H6, -E1A6D<br>180 HP @ 2700 RPM  | HC-C2YR-2CEUF<br>FC7666A-2R                    | 74.0" TO 72.0"        | C-2285-3              | <b>865</b>           |
| <b>PIPER</b><br>PA-44-180 (right side) SEMINOLE        | A19SO                                  | LYCOMING LO-360-A1H6, -E1A6D<br>180 HP @ 2700 RPM | HC-C2YR-2CLEUF<br>FJC7666A-2R                  | 74.0" TO 72.0"        | C-2285-3L             | <b>866</b>           |
| <b>PIPER</b><br>PA-44-180 (right side) SEMINOLE        | A19SO                                  | LYCOMING LO-360-E1A6D<br>180 HP @ 2700 RPM        | HC-C3YR-2LEUF<br>FJC7663-5R                    | 73" TO 72"            | C-4558-3              | <b>868</b>           |
| <b>PIPER</b><br>PA-44-180T (left side) TURBO SEMINOLE  | A19SO                                  | LYCOMING TO-360-E1A6D<br>180 HP @ 2575 RPM        | HC-C2YR-2CEUF<br>FC7666A-2R                    | 74.0" TO 72.0"        | C-2285-3              | <b>869</b>           |
| <b>PIPER</b><br>PA-44-180T (right side) TURBO SEMINOLE | A19SO                                  | LYCOMING LTO-360-E1A6D<br>180 HP @ 2575 RPM       | HC-C2YR-2CLEUF<br>FJC7666A-2R                  | 74.0" TO 72.0"        | C-2285-3L             | <b>870</b>           |
| <b>PIPER</b><br>PA-44-180T (left side) TURBO SEMINOLE  | A19SO                                  | LYCOMING TO-360-E1A6D<br>180 HP @ 2575 RPM        | HC-C3YR-2EUF<br>FC7663-5R                      | 73" TO 72"            | C-4558-3P<br>C-4558-3 | <b>871</b>           |

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|--|--|---|---|-----------------------|--|----------------------|
| PIPER<br>PA-44-180T (right side) TURBO<br>SEMINOLE | A19SO                                  | LYCOMING LTO-360-E1A6D<br>180 HP @ 2575 RPM       | HC-C3YR-2LEUF<br>FJC7663-5R             | 73" TO 72"            | C-4558-3<br>C-4558-3P                            | 872                  |
| PIPER<br>PA-44-180 (left side) Seminole            | SA03022CH<br>Hartzell Propeller        | Lycoming O-360-A1H6, -E1A6D<br>180 HP @ 2700 RPM  | HC-C2YR-2CEUFP<br>FC7497*1              | 74-72.5"              | D-6974-1P<br>D-6974-1<br>C-2285-3P<br>C-2285-3   | 3115                 |
| PIPER<br>PA-44-180 (right side) Seminole           | SA03022CH<br>Hartzell Propeller        | Lycoming LO-360-A1H6, -E1A6D<br>180 HP @ 2700 RPM | HC-C2YR-2CLEUFP<br>FJC7497<br>FJC7497*1 | 74-72.5"              | D-6974-1P<br>D-6974-1<br>C-2285-3LP<br>C-2285-3L | 3116                 |
| PIPER<br>PA-46 JET PROP DLX (MALIBU)               | ST00541SE<br>JETPROP LLC               | PRATT&WHITNEY PT6A-34<br>560 HP @ 2200 RPM        | HC-E4N-3I<br>E8501-3.5<br>E8501B-3.5    | 82.5" TO 81.5"        | D-630-1<br>D-630-1P                              | 1397                 |
| PIPER<br>PA-46 JETPROP DLX (MALIBU)                | ST00541SE<br>JETPROP LLC               | PRATT & WHITNEY PT6A-34<br>560 HP @ 2200 RPM      | HC-E4N-3M<br>E8190K                     | 81.75"                | E-6963-P   | 1555                 |
| PIPER<br>PA-46 JET PROP DLX (MALIBU)               | STC ST00541SE<br>JET PROP LLC          | PRATT & WHITNEY PT6A-34<br>560 HP @ 2200 RPM      | HC-E4N-3N<br>D8292B-2                   | 80.5" TO 80.0"        | D-630-1<br>D-630-1P                              | 3356                 |
| PIPER<br>PA-46 JET PROP DLX (MALIBU)               | STC ST00541SE<br>JET PROP LLC          | PRATT & WHITNEY PT6A-34<br>560 HP @ 2200 RPM      | HC-E4N-3N<br>D8292B                     | 82.5" TO 81.5"        | D-630-1<br>D-630-1P                              | 1888                 |
| PIPER<br>PA-46-310P MALIBU                         | A25SO                                  | CONTINENTAL TSIO-520-BE<br>310 HP @ 2600 RPM      | BHC-C2YF-1BF<br>F8052                   | 80.0" TO 78.0"        | D-4810-P<br>D-4810                               | 873                  |
| PIPER<br>PA-46-310P MALIBU                         | STC SA01616CH<br>HARTZELL PROPELLER    | CONTINENTAL TSIO-520-BE<br>310 HP @ 2600 RPM      | PHC-G3YF-1E<br>7890K                    | 80.0"                 | C-3535-3P<br>C-3535-3                            | 1594                 |

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|---|---|---|--------------------------------------|-----------------------|---|----------------------|
| <b>PIPER</b><br>PA-46-310P MALIBU                             | STC SA01770CH<br>MALIBU POWER AND PROPELLER | CONTINENTAL TSIO-550-C1B<br>350 HP @ 2700 RPM | PHC-G3YF-1E<br>7890K                 | 80.0"                 | C-3535-3P<br>C-3535-3   | <b>1668</b>          |
| <b>PIPER</b><br>PA-46-350P MALIBU MIRAGE                      | A25SO                                       | LYCOMING TIO-540-AE2A<br>350 HP @ 2500 RPM    | HC-I2YR-1BF<br>F8074                 | 80.0" TO 79.0"        | A-2298-3P<br>A-2298-3   | <b>874</b>           |
| <b>PIPER</b><br>PA-46-350P MALIBU MIRAGE                      | A25SO                                       | LYCOMING TIO-540-AE2A<br>350 HP @ 2500 RPM    | HC-I3YR-1E<br>7890K                  | 80.0                  | D-6750-P<br>D-6750  | <b>1398</b>          |
| <b>PIPER</b><br>PA-46-350P, PA-46R-350T MALIBU MIRAGE, MATRIX | SA02677CH-D<br>Hartzell Propeller           | LYCOMING TIO-540-AE2A<br>350 HP @ 2500 RPM    | HC-I3Y1R-1N<br>N7605C+2<br>N7605CK+2 | 80"                   | D-6751-1PKIT<br>D-6750-1P<br>D-6750-1<br>D-6751-1P<br>D-6751-1KIT<br>D-6751-1 | <b>3131</b>          |
| <b>PIPER</b><br>PA-46-350P, PA-46R-350T MALIBU MIRAGE, MATRIX | SA02677CH-D<br>Hartzell Propeller           | LYCOMING TIO-540-AE2A<br>350 HP @ 2500 RPM    | HC-I3Y1R-1N<br>N7605+2<br>N7605K+2   | 80"                   | D-6751-1PKIT<br>D-6750-1P<br>D-6750-1   | <b>2784</b>          |
| <b>PIPER</b><br>PA-46-350P, PA-46R-350T MALIBU MIRAGE, MATRIX | SA02677CH-D<br>HARTZELL PROPELLER INC.      | LYCOMING TIO-540-AE2A<br>350 HP @ 2500 RPM    | HC-I3YR-1N<br>N7605+2<br>N7605K+2    | 80"                   | D-6751-1PKIT<br>D-6750-1P<br>D-6750-1   | <b>2785</b>          |
| <b>PIPER</b><br>PA-46-350P, PA-46R-350T MALIBU MIRAGE, MATRIX | SA02677CH-D<br>Hartzell Propeller Inc.      | Lycoming TIO-540-AE2A<br>350 HP @ 2500 RPM    | HC-I3YR-1N<br>N7605C+2<br>N7605CK+2  | 80"                   | D-6751-1PKIT<br>D-6750-1P<br>D-6750-1   | <b>3148</b>          |
| <b>PIPER</b><br>PA-46-350P MALIBU MIRAGE                      | SA01340CH<br>HARTZELL PROPELLER             | LYCOMING TIO-540-AE2A<br>350 HP @ 2500 RPM    | HC-I3YR-1E<br>7890K                  | 80.0                  | D-6750-P<br>D-6750  | <b>1682</b>          |
| <b>PIPER</b><br>PA-46-350P MALIBU MIRAGE                      | TBD<br>Enhanced Flight Group                | LYCOMING TIO-540-AE2A<br>350 HP @ 2500 RPM    | HC-E3YR-1E<br>7890K*1                | 80"                   | C-6446  | <b>2453</b>          |



# HARTZELL

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| <u>Model/Trade Name:</u>  | <u>Aircraft T.C./STC No/ Modifier:</u> | <u>Engine/ Power:</u>                            | <u>Propeller/Blade Model(s):</u>        | <u>Prop Diameter:</u> | <u>Spinner:</u>       | <u>IDS Ref. No.:</u> |
|---|--|--|---|-----------------------|-----------------------|----------------------|
| <b>PIPER</b><br>PA-46-500TP MERIDIAN                              | A25SO                                  | PRATT&WHITNEY PT6A-42A<br>500 HP @ 2000 RPM      | HC-E4N-3Q<br>E8501-3.5<br>E8501B-3.5    | 82.5" TO 81.5"        | D-630-5<br>D-630-5P   | <b>1649</b>          |
| <b>PIPER</b><br>PA-46-310P MAILIBU                                | LBA STC 0317/1076<br>MT PROPELLER      | CONTINENTAL TSIO-520-BE<br>310 HP @ 2600 RPM     | PHC-C3YF-1RF<br>F7663D-2Q               | 76                    | A-2295-1P             | <b>2490</b>          |
| <b>PIPER</b><br>PA-24-260 COMANCHE 260, 260B                      | STC-SA288CH<br>HARTZELL PROPELLER      | LYCOMING IO-540-D4A5, -E4A5<br>260 HP @ 2700 RPM | HC-C3YR-1RF<br>F7590                    | 77.0" TO 76.0"        | A-2295-1<br>A-2295-1P | <b>2578</b>          |
| <b>PIPER</b><br>PA-28R-200,-201, PA-28RT-201<br>ARROW II, III, IV | STC-SA4528NM<br>HARTZELL PROPELLER     | LYCOMING IO-360-C1C(6)<br>200 HP @ 2700 RPM      | HC-C3YR-1RF<br>F7282                    | 74.0" TO 73.0"        | A-2295-4P             | <b>2579</b>          |
| <b>PIPER</b><br>PA-32-260 CHEROKEE SIX 260                        | STC-SA1105CH<br>HARTZELL PROPELLER     | LYCOMING O-540-E4B5<br>260 HP @ 2700 RPM         | HC-C3YR-1RF<br>F7693F                   | 78" TO 77"            | A-2295-1<br>A-2295-1P | <b>2580</b>          |
| <b>PIPER PA-60</b><br>see AEROSTAR AIRCRAFT CORP.                 |  | HP @ RPM   |   |                       |                       | <b>1379</b>          |
| <b>PIRTEL (JOHNSON ROCKET)</b><br>JOHNSON ROCKET 185              | STC-SA4-22<br>ALBERT MISENIC           | HP @ RPM   | HC-12X20-8D<br>B8428-6                  | 78"                   |                       | <b>892</b>           |
| <b>PITTS</b><br>see AVIAT   |  | HP @ RPM   |   |                       |                       | <b>893</b>           |
| <b>POLISH AVIATION (MIELEC)</b><br>M-28 SKYTRUCK                  | A56CE                                  | PRATT & WHITNEY PT6A-65B<br>1100 HP @ 1700 RPM   | HC-B5MP-3D<br>M10876ANS<br>M10876ANSK*1 | 111.0" TO 110.7"      | D-3434-8P             | <b>1063</b>          |
| <b>POLISH AVIATION (MIELEC)</b><br>M-28B BRYZA-1R                 | Unknown<br>POLSKIE ZAKLADY LOTNICZE    | PZL - Rzeszow PZL-10S<br>960 HP @ 1700 RPM       | HC-B5MP-3D<br>M10876ANS<br>M10876ANSK*4 | 111.0" TO 110.7"      |                       | <b>1648</b>          |

| <u>Model/Trade Name:</u>                          | <u>Aircraft T.C./STC<br/>No/ Modifier:</u> | <u>Engine/ Power:</u>                      | <u>Propeller/Blade Model(s):</u>   | <u>Prop Diameter:</u> | <u>Spinner:</u> | <u>IDS Ref. No.:</u> |
|---|--|--|--|-----------------------|-----------------|----------------------|
| <b>POLISH AVIATION (MIELEC)</b><br>M-28B BRYZA-1R | Unknown<br>POLSKIE ZAKLADY LOTNICZE        | PZL - Rzeszow PZL-10S<br>960 HP @ 1700 RPM | HC-B5MP-3G<br>M10876ANSK*4   | 111.0" TO 110.7"      |                 | <b>1904</b>          |
| <b>PROCAER</b><br>F15/B PICCHIO                   | A1IN                                       | LYCOMING O-360-A1A<br>180 HP @ 2700 RPM    | HC-92ZK-8D<br>8447A-12A<br>8447AN-12A  | 71.6" TO 70"          | 835-30          | <b>894</b>           |
| <b>PROCAER</b><br>F15/B PICCHIO                   | Unknown                                    | LYCOMING O-360-A1A<br>180 HP @ 2700 RPM    | HC-C2YK-1BF<br>F7666A-4  | 72"                   | 835-20          | <b>895</b>           |
| <b>PROCAER</b><br>F15/E PICCHIO                   | A28EU                                      | CONTINENTAL IO-520-F<br>300 HP @ 2850 RPM  | HC-C2YF-1BF<br>F8475-6   | 78" TO 77"            | 835-23          | <b>897</b>           |
| <b>PROP JETS INC.</b><br>200A,B,C ROCKWELL,MEYERS | 3A18                                       | CONTINENTAL IO-470-D<br>260 HP @ 2625 RPM  | HC-82XF-1A, HC-A2XF-1A, HC-82XF-1DB1<br>8433-4                                       | 80.2" TO 78"          | 835-13<br>835-3 | <b>2274</b>          |
| <b>PROP JETS INC.</b><br>200A,B,C ROCKWELL,MEYERS | 3A18                                       | CONTINENTAL IO-470-D<br>260 HP @ 2625 RPM  | HC-82VF-1A, HC-A2VF-1A, HC-82VF-1DB1<br>V8433-4<br>V8433-4R<br>V8433N-4<br>V8433N-4R | 80.2" TO 78"          | 835-13<br>835-3 | <b>2275</b>          |
| <b>PROP JETS INC.</b><br>200A,B,C ROCKWELL,MEYERS | 3A18                                       | CONTINENTAL IO-470-D<br>260 HP @ 2625 RPM  | HC-A2MVF-1A<br>MV8433N-4   | 80.2" TO 78"          | 835-13<br>835-3 | <b>899</b>           |
| <b>PROP JETS INC.</b><br>200C ROCKWELL,MEYERS     | 3A18                                       | CONTINENTAL IO-470-D<br>260 HP @ 2625 RPM  | HC-C2YF-1A<br>F8468-4  | 80" NO CUT OFF        | 835-23          | <b>900</b>           |
| <b>PROP JETS INC.</b><br>200 ROCKWELL,MEYERS      | 3A18                                       | CONTINENTAL O-470-M<br>240 HP @ 2600 RPM   | HC-82XF-1A, HC-A2XF-1A, HC-82XF-1DB1   | 84" TO 82.5"          | 835-13<br>835-3 | <b>2272</b>          |

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|---|--|---|---|-----------------------|-----------------------|----------------------|
| <b>PROP JETS INC.</b><br>200 ROCKWELL,MEYERS    | 3A18                                   | CONTINENTAL O-470-M<br>240 HP @ 2600 RPM                        | HC-82VF-1A, HC-A2VF-1A, HC-82VF-1DB1<br>V8433NS<br>V8433S | 84" TO 82.5"          | 835-13<br>835-3       | <b>2273</b>          |
| <b>PROP JETS INC.</b><br>200 ROCKWELL,MEYERS    | 3A18                                   | CONTINENTAL O-470-M<br>240 HP @ 2600 RPM                        | HC-A2MVF-1A<br>MV8433NS                                   | 84" TO 82.5"          | 835-13<br>835-3       | <b>898</b>           |
| <b>PROP JETS INC.</b><br>400 INTERCEPTOR        | 3A18                                   | HONEYWELL TPE331-1-101J<br>400 HP @ 2000 RPM                    | HC-B3TN-5C<br>T10178-15<br>T10178N-15                     | 86.0"                 | D-3434                | <b>902</b>           |
| <b>PRUE</b><br>PRUE II MOTORGLIDER              | Experimental                           | LYCOMING O-320 series<br>150 HP @ 2700 RPM                      | HC-E2YL-2BSF<br>F7663-4                                   | 72" TO 70"            |                       | <b>1410</b>          |
| <b>PZL 130 TC II</b><br>PZL-130TC11 ORLIK ORLIK | Unknown                                | PRATT & WHITNEY PT6A-25C<br>750 HP @ 2000 RPM                   | HC-D4N-2DA<br>D9512AF                                     | 96.0" TO 95.0"        | D-630-9P<br>D-630-1P  | <b>1744</b>          |
| <b>PZL MIELEC</b><br>M18,M18A,M18B Dromader     | Field Approval<br>Turbine Conversions  | Pratt&Whitney,Canada PT6A-45 & -65 series<br>1220 HP @ 1700 RPM | HC-B5MP-3F<br>M11276N                                     | 115.2 inches          | E-7256-P              | <b>3274</b>          |
| <b>PZL MIELEC</b><br>PZL-106BT TURBO KRUK       | Unknown                                | PRATT & WHITNEY PT6A-34AG<br>750 HP @ 2200 RPM                  | HC-B3TN-3D<br>T10282N+4                                   | 106.5"                | D-3434-12P            | <b>1425</b>          |
| <b>PZL MIELEC</b><br>PZL-130TE ORLIK            | Unknown                                | PRATT & WHITNEY PT6A-25A<br>550 HP @ 2200 RPM                   | HC-B3TN-3B<br>T10173K-11R*1<br>T10173NK-11R*1             | 90.5"                 | C-3065                | <b>903</b>           |
| <b>PZL MIELEC</b><br>M18 DROMADER               | STC SA00946SE<br>AG AIR SYSTEMS        | HONEYWELL TPE-331-10<br>900 HP @ 1591 RPM                       | HC-B4TN-5NL<br>LT10890N                                   | 109.5                 | D-3434-7P<br>D-3434-7 | <b>1969</b>          |

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|--|--|--|-------------------------------------|---------------------------------|--|----------------------|
| <b>PZL MIELEC</b><br>M18 DROMADER                                | SA09039SC<br>DELTA TURBINES              | HONEYWELL TPE331-10UA<br>940 HP @ 2000 RPM                         | HC-B3TN-5U<br>T10290N               | 102" max. refer to STC for min. | C-3043-3P<br>C-3043-2P<br>D-3434-12<br>D-3434-1<br>D-3434-1P<br>C-3043-2<br>C-3043-3<br>D-3434-12P | <b>1311</b>          |
| <b>PZL MIELEC</b><br>M18 DROMEDER                                | STC SA9039SC<br>DELTA TURBINES           | HONEYWELL TPE-331-11,-12<br>1100 HP @ 1591 RPM                     | HC-B5MP-5BL<br>LM11692N             | 118.7" to 118.2 "               | E-6955-P   | <b>1440</b>          |
| <b>PZL MIELEC</b><br>M18, M18A, M18B DROMADER                    | STC-SA1014GL<br>TURBINE CONVERSIONS, LTD | PRATT & WHITNEY PT6A-45A, -65B, R,<br>AG, AR<br>1220 HP @ 1700 RPM | HC-B5MP-3C<br>M10876ANS<br>M10876AS | 111.2"                          | D-3434-8P<br>D-3434-8  | <b>904</b>           |
| <b>PZL MIELEC</b><br>M18 DROMEDER                                | SA01361SE<br>AG AIR SYSTEMS              | HONEYWELL TPE-331-11,-12<br>1100 HP @ 1591 RPM                     | HC-B5MP-5BL<br>LM11692N             | 118.7" to 118.2 "               | E-6955-P   | <b>1715</b>          |
| <b>PZL MIELEC</b><br>M20 (Piper PA-34-220T) (left side)<br>MEWA  | Unknown                                  | CONTINENTAL TSIO-360-KB<br>220 HP @ 2800 RPM                       | BHC-C2YF-2CKUF<br>FC8459-8R         | 76.0" TO 75.0"                  | C-2285-2P<br>C-2285-2  | <b>1312</b>          |
| <b>PZL MIELEC</b><br>M20 (Piper PA-34-220T) (right side)<br>MEWA | Unknown                                  | CONTINENTAL LTSIO-360-KB<br>220 HP @ 2800 RPM                      | BHC-C2YF-2CLKUF<br>FJC8459-8R       | 76.0" TO 75.0"                  | C-2285-2L<br>C-2285-2LP  | <b>1313</b>          |
| <b>PZL MIELEC</b><br>M26 ISKIERKA                                | Unknown                                  | LYCOMING AEIO-540-L1B5D<br>300 HP @ 2700 RPM                       | HC-C3YR-4BF<br>FC8468-10R*1         | 78" to 76"                      | D-5205<br>D-5205-P   | <b>1250</b>          |
| <b>PZL WARSZAWA-OKECIE</b><br>PZL-104M WILGA 2000                | A55EU                                    | LYCOMING IO-540-K1(B,D)5, K1J5D<br>300 HP @ 2700 RPM               | HC-C3YR-1RF<br>F8468A-6R            | 80" TO 76"                      | 835-36P  | <b>1314</b>          |
| <b>PZL WARSZAWA-OKECIE</b><br>PZL-104M WILGA 2000                | A55EU                                    | LYCOMING IO-540-K1(B,D)5, K1J5D<br>300 HP @ 2700 RPM               | HC-C3YR-1RF<br>F8068                | 82.0" Max                       | C-3535-1P  | <b>1806</b>          |

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|--|--|--|-------------------------------------|-----------------------|---|----------------------|
| <b>PZL WARSZAWA-OKECIE</b><br>PZL-104MA WILGA 2000         | A55EU  | LYCOMING IO-540-K1B5, IO-540-K1D5<br>290 HP @ 2575 RPM | HC-E3YR-1RF<br>F8068+2              | 84" - 80"             | C-3535-1P   | <b>2462</b>          |
| <b>Quest Aircraft, LLC</b><br>Kodiak                       | SA02991CH<br>Wipaire                                   | Pratt & Whitney PT6A-35<br>750 HP @ 2190 RPM           | HC-B3TN-3D(Y)<br>T10282NS           | 102.0" to 100.0"      | C-3065-1P<br>C-3065-1   | <b>3060</b>          |
| <b>QUEST AIRCRAFT, LLC</b><br>100 KODIAK                   | A00007SE   | PRATT & WHITNEY PT6A-34<br>750 HP @ 2200 RPM           | HC-E4N-3PY<br>D9511FSB              | 96"                   | D-630-10<br>D-630-10P<br>D-630-8P<br>D-630-8<br>D-630-6<br>D-630-6P | <b>2634</b>          |
| <b>QUEST AIRCRAFT, LLC</b><br>100 KODIAK                   | A00007SE   | PRATT & WHITNEY PT6A-34<br>750 HP @ 2200 RPM           | HC-E4N-3P<br>D9511FSB               | 96"                   | D-630-10P<br>D-630-10<br>D-630-8<br>D-630-8P<br>D-630-6<br>D-630-6P | <b>2607</b>          |
| <b>RAVIN AIRCRAFT</b><br>RAVIN                             | Experimental   | LYCOMING IO-540-D4A5, E4A5<br>260 HP @ 2700 RPM        | HC-C3YR-1RF<br>F7590*1              | 77.0" TO 76.0"        | A-2295-1P   | <b>2488</b>          |
| <b>RAYTHEON</b><br>J35, K35, M35, N35, P35, G33<br>BONANZA | SA02363CH<br>CHECK NEY ENTERPRISES                     | TCM IO-470-C, -N<br>260 HP @ 2625 RPM                  | PHC-L3YF-1RF<br>F8468A-6R           | 80                    | A-2295-1<br>A-2295-1P   | <b>2739</b>          |
| <b>RAYTHEON</b><br>J35, K35, M35, N35, P35, G33<br>BONANZA | SA02363CH<br>CHUCK NEY ENTERPRISE                      | TCM IO-470-N-MOD<br>260 HP @ 2625 RPM                  | PHC-L3YF-1RF<br>F8068               | 82"                   | A-2295-1P   | <b>2756</b>          |
| <b>RAYTHEON AIRCRAFT CO.</b><br>see BEECH                  |  | HP @ RPM   |                                     |                       |   | <b>1494</b>          |
| <b>RAYTHEON AIRCRAFT CO.</b><br>D18C, S TWIN BEECH         | STC-SA2204WE<br>CAMERON & STAHL(dba<br>AEROSPACE PROD) | HONEYWELL TPE331-25B<br>575 HP @ 2000 RPM              | HC-B3TN-5C<br>T10178-6<br>T10178N-6 | 95.5"                 | C-3043-2  | <b>152</b>           |

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|--|--|---|-------------------------------------|-----------------------|-----------------|----------------------|
| RAYTHEON AIRCRAFT CO.<br>D18C, S TWIN BEECH      | STC-SA2204WE<br>CAMERON & STAHL(dba<br>AEROSPACE PROD) | HONEYWELL TPE331-25B<br>575 HP @ 2000 RPM | HC-B3TN-5C<br>T10176-8<br>T10176N-8 | 93.5"                 | C-3043-2        | 154                  |
| RAYTHEON AIRCRAFT CO.<br>E18S-9700 TWIN BEECH    | STC-SA2204WE<br>CAMERON & STAHL(dba<br>AEROSPACE PROD) | HONEYWELL TPE331-25B<br>575 HP @ 2000 RPM | HC-B3TN-5C                          | 95.5"                 |                 | 157                  |
| RAYTHEON AIRCRAFT CO.<br>E18S-9700 TWIN BEECH    | STC-SA2204WE<br>CAMERON & STAHL(dba<br>AEROSPACE PROD) | HONEYWELL TPE331-25B<br>575 HP @ 2000 RPM | HC-B3TN-5C<br>T10176-8<br>T10176N-8 | 93.5"                 | C-3043-2        | 156                  |
| RAYTHEON AIRCRAFT CO.<br>TURBO 18 TWIN BEECH     | STC-SA2204WE<br>CAMERON & STAHL(dba<br>AEROSPACE PROD) | HONEYWELL TPE331-25B<br>575 HP @ 2000 RPM | HC-B3TN-5C<br>T10178-6<br>T10178N-6 | 95.5"                 | C-3043-2        | 153                  |
| RAYTHEON AIRCRAFT CO.<br>TURBO 18 TWIN BEECH     | STC-SA2204WE<br>CAMERON & STAHL(dba<br>AEROSPACE PROD) | HONEYWELL TPE331-25B<br>575 HP @ 2000 RPM | HC-B3TN-5C<br>T10176-8<br>T10176N-8 | 93.5"                 | C-3043-2        | 151                  |
| RAYTHEON AIRCRAFT CO.<br>C45G, H TWIN BEECH      | STC-SA2204WE<br>CAMERON & STAHL(dba<br>AEROSPACE PROD) | HONEYWELL TPE331-25B<br>575 HP @ 2000 RPM | HC-B3TN-5C<br>T10178-6<br>T10178N-6 | 95.5"                 | C-3043-2        | 150                  |
| RAYTHEON AIRCRAFT CO.<br>TC45G, H, J, TWIN BEECH | STC-SA2204WE<br>CAMERON & STAHL(dba<br>AEROSPACE PROD) | HONEYWELL TPE331-25B<br>575 HP @ 2000 RPM | HC-B3TN-5C<br>T10178-6<br>T10178N-6 | 95.5"                 | C-3043-2        | 155                  |
| RAYTHEON AIRCRAFT CO.<br>C45G, H TWIN BEECH      | STC-SA2204WE<br>CAMERON & STAHL(dba<br>AEROSPACE PROD) | HONEYWELL TPE331-25B<br>575 HP @ 2000 RPM | HC-B3TN-5C<br>T10176-8<br>T10176N-8 | 93.5"                 | C-3043-2        | 149                  |
| RAYTHEON AIRCRAFT CO.<br>TC45G, H, J, TWIN BEECH | STC-SA2204WE<br>CAMERON & STAHL(dba<br>AEROSPACE PROD) | HONEYWELL TPE331-25B<br>575 HP @ 2000 RPM | HC-B3TN-5C<br>T10176-8<br>T10176N-8 | 93.5"                 | C-3043-2        | 158                  |

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|---|--|---|---------------------------------------|-----------------------|----------------------|----------------------|
| REBEL<br>300                                    | Experimental                           | LYCOMING AEIO-540, IO-540-D4A5<br>260 HP @ 2700 RPM       | HC-C3YR-1A<br>7690C                   | 78" NO CUT OFF        | D-6936-P<br>C-3570-P | 1330                 |
| <b>Republic</b><br>RC-3 Seabee                  | SA1293NW<br>Randy Michael Komko        | Lycoming IO-540-K1B5<br>300 HP @ 2700 RPM                 | HC-E3YR-7LF<br>FLC8468-4R             | 82                    |                      | 3767                 |
| <b>REPUBLIC (STOL AMPHIBIAN)</b><br>RC-3 SEABEE | A769                                   | FRANKLIN 6A8-215-B8F<br>215 HP @ 2500 RPM                 | HC-12X20-2<br>L8427                   | 84" TO 82"            |                      | 906                  |
| <b>REPUBLIC (STOL AMPHIBIAN)</b><br>RC-3 SEABEE | A769                                   | FRANKLIN 6A8-215-B8F<br>215 HP @ 2500 RPM                 | not procurable                        | 84" NO CUT OFF        |                      | 907                  |
| <b>REPUBLIC (STOL AMPHIBIAN)</b><br>RC-3 SEABEE | A769                                   | FRANKLIN 6A8-215-B8F<br>215 HP @ 2500 RPM                 | HC-12X20-3,-3A,-3C,-3E<br>L8427       | 84" TO 82"            |                      | 908                  |
| <b>REPUBLIC (STOL AMPHIBIAN)</b><br>RC-3 SEABEE | A769                                   | FRANKLIN 6A8-215-B8F, -B9F<br>215 HP @ 2500 RPM           | HC-12X20-3, HC-D2X20-3                | 84" NO CUT OFF        |                      | 2276                 |
| <b>REPUBLIC (STOL AMPHIBIAN)</b><br>RC-3 SEABEE | A769                                   | FRANKLIN 6A8-215-B8F, -B9F<br>215 HP @ 2500 RPM           | HC-12X20-3, HC-D2X20-3<br>LV8433N     | 84" NO CUT OFF        |                      | 2277                 |
| <b>REPUBLIC (STOL AMPHIBIAN)</b><br>RC-3 SEABEE | A769                                   | FRANKLIN 6A8-215-B8F, -B9F<br>215 HP @ 2500 RPM           | HC-D2MV20-3<br>LMV8433N               | 84" NO CUT OFF        |                      | 909                  |
| <b>REPUBLIC (STOL AMPHIBIAN)</b><br>RC-3 SEABEE | STC-SA3-88<br>JOHN E AYER              | FRANKLIN 6A8-215-B8F<br>215 HP @ 2500 RPM                 | not procurable                        | 82.6" TO 82"          |                      | 917                  |
| <b>REPUBLIC (STOL AMPHIBIAN)</b><br>RC-3 SEABEE | STC-SA3-88<br>JOHN E AYER              | FRANKLIN 6A8-215-B8F (s/charged)<br>280 HP @ 2500 RPM     | HC-13V20-6L, HC-D3V20-6L<br>LV8433N-2 |                       |                      | 2303                 |
| <b>REPUBLIC (STOL AMPHIBIAN)</b><br>RC-3 SEABEE | STC-SA3-88<br>JOHN E AYER              | FRANKLIN 6A8-215-B8F (non-s/charged)<br>215 HP @ 2500 RPM | HC-D3V20-6L<br>LV8433N-2              |                       |                      | 2326                 |
| <b>REPUBLIC (STOL AMPHIBIAN)</b><br>RC-3 SEABEE | STC-SA3-88<br>JOHN E AYER              | FRANKLIN 6A8-215-B8F (s/charged)<br>280 HP @ 2500 RPM     | HC-D3MV20-6L<br>LMV8433N-2            |                       |                      | 1571                 |

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| REPUBLIC (STOL AMPHIBIAN)<br>RC-3 SEABEE | STC-SA3-88<br>JOHN E AYER              | FRANKLIN 6A8-215-B8F (non-s/charged)<br>215 HP @ 2500 RPM      | HC-D3MV20-6L<br>LMV8433N-2          |                       |                  | 918                  |
| REPUBLIC (STOL AMPHIBIAN)<br>RC-3 SEABEE | STC-SA282NW<br>STC BEE INC.            | LYCOMING GO-435<br>HP @ 1925 RPM                               | HC-83V20-3L, HC-A3V20-3L<br>LV8433N | 84.6" TO 84"          |                  | 2279                 |
| REPUBLIC (STOL AMPHIBIAN)<br>RC-3 SEABEE | STC-SA282NW<br>STC BEE INC.            | LYCOMING GO-435<br>HP @ 1925 RPM                               | HC-A3MV20-3L<br>LMV8433N            | 84.6" TO 84"          |                  | 916                  |
| REPUBLIC (STOL AMPHIBIAN)<br>RC-3 SEABEE | STC-SA615NW<br>SIM-U-FLIGHT            | LYCOMING GO-435-C2B<br>260 HP @ 2182 RPM                       | HC-A3MV20-3L<br>LMV9333N-5          | 88.6"                 |                  | 910                  |
| REPUBLIC (STOL AMPHIBIAN)<br>RC-3 SEABEE | STC-SA282NW<br>STC BEE INC.            | LYCOMING GO-480-B, B1B, B1C, B1D,<br>B1A6<br>340 HP @ 2182 RPM | HC-83V20-3L, HC-A3V20-3L<br>LV8433N | 84.6" TO 84"          |                  | 2278                 |
| REPUBLIC (STOL AMPHIBIAN)<br>RC-3 SEABEE | SA614NW<br>SIMUFLIGHT                  | LYCOMING GO-480-B1B<br>270 HP @ 2182 RPM                       | HC-A2MV20-3L<br>LMV9333N-4          | 89"                   |                  | 1689                 |
| REPUBLIC (STOL AMPHIBIAN)<br>RC-3 SEABEE | STC-SA282NW<br>STC BEE INC.            | LYCOMING GO-480-B, B1B, B1C, B1D,<br>B1A6<br>270 HP @ 2182 RPM | HC-A3MV20-3L<br>LMV8433N            | 84.6" TO 84"          |                  | 914                  |
| REPUBLIC (STOL AMPHIBIAN)<br>RC-3 SEABEE | STC-SA5734NM<br>DONALD KYTE            | LYCOMING GSO-480-B1C6<br>340 HP @ 2182 RPM                     | HC-A3MV20-3L<br>LMV9333N-6Q         | 87.625"               |                  | 919                  |
| REPUBLIC (STOL AMPHIBIAN)<br>RC-3 SEABEE | Field Approval<br>Henry Ruzakowski     | LYCOMING GSO-480-B1C6<br>340 HP @ 2182 RPM                     | HC-A3MVF-3L<br>LMV9333N-6Q          | 87.625                |                  | 1690                 |
| REPUBLIC (STOL AMPHIBIAN)<br>RC-3 SEABEE | STC-SA282NW<br>STC BEE INC             | LYCOMING GO-480-C1D6<br>340 HP @ 2182 RPM                      | HC-A3V20-3L<br>LV9333N-4            | 89.6" TO 89"          |                  | 2325                 |
| REPUBLIC (STOL AMPHIBIAN)<br>RC-3 SEABEE | STC-SA282NW<br>STC BEE INC.            | LYCOMING GO-480-C2C6, C2D6, G2D6,<br>G2F6<br>295 HP @ 2182 RPM | HC-A3VF-5AL<br>LV9333N-4            | 89.6" TO 89"          | 836-26<br>836-25 | 2324                 |



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| REPUBLIC (STOL AMPHIBIAN)<br>RC-3 SEABEE | STC-SA282NW<br>STC BEE INC             | LYCOMING GO-480-C1D6<br>340 HP @ 2182 RPM                       | HC-A3MV20-3L<br>LMV9333N-4               | 89.6" TO 89"          |                  | 915                  |
| REPUBLIC (STOL AMPHIBIAN)<br>RC-3 SEABEE | STC-SA282NW<br>STC BEE INC.            | LYCOMING GO-480-C2C6, C2D6, G2D6,<br>G2F6<br>295 HP @ 2182 RPM  | HC-A3MV5-5AL<br>LMV9333N-4               | 89.6" TO 89"          | 836-26<br>836-25 | 912                  |
| REPUBLIC (STOL AMPHIBIAN)<br>RC-3 SEABEE | STC-SA282NW<br>STC BEE INC.            | LYCOMING GO-480-F1A6<br>275 HP @ 2182 RPM                       | HC-A3VF-3L                               | 84.6" TO 84"          |                  | 2305                 |
| REPUBLIC (STOL AMPHIBIAN)<br>RC-3 SEABEE | STC-SA282NW<br>STC BEE INC.            | LYCOMING GO-480-F1A6<br>275 HP @ 2182 RPM                       | HC-A3MV5-3L<br>LMV8433N                  | 84.6" TO 84"          |                  | 1621                 |
| REPUBLIC (STOL AMPHIBIAN)<br>RC-3 SEABEE | STC-SA282NW<br>STC BEE INC.            | LYCOMING GO-480-F2A, -F2A6, -F4A6<br>275 HP @ 2182 RPM          | HC-A3MV5-5AL<br>LMV9333N-6               | 87.6" TO 87"          | 836-26<br>836-25 | 913                  |
| REPUBLIC (STOL AMPHIBIAN)<br>RC-3 SEABEE | STC-SA615NW<br>SIM-U-FLIGHT            | LYCOMING GO, GSO, IGO, IGSO, 480<br>SERIES<br>340 HP @ 2182 RPM | HC-A3V20-3L<br>LV9333N-4<br>LV9333N-5    | 89.6"                 |                  | 2323                 |
| REPUBLIC (STOL AMPHIBIAN)<br>RC-3 SEABEE | STC-SA615NW<br>SIM-U-FLIGHT            | LYCOMING GO, GSO, IGO, IGSO, 480<br>SERIES<br>340 HP @ 2182 RPM | HC-A3MV20-3L<br>LMV9333N-4<br>LMV9333N-5 | 89.6"                 |                  | 911                  |
| REPUBLIC (STOL AMPHIBIAN)<br>RC-3 SEABEE | STC-SA282NW<br>STC Bee INC.            | LYCOMING GO-480-G2D6<br>295 HP @ 2182 RPM                       | HC-83VF-3L, HC-A3VF-3L<br>LV9333N-4      | 89" NO CUT-OFF        |                  | 2328                 |
| REPUBLIC (STOL AMPHIBIAN)<br>RC-3 SEABEE | STC-SA3865SW<br>A. STEVEN HENSLEY      | LYCOMING GO-480-G2D6<br>295 HP @ 2182 RPM                       | HC-83VF-3L, HC-A3VF-3L<br>LV9333N-5      | 89.0" TO 88.0"        |                  | 2297                 |
| REPUBLIC (STOL AMPHIBIAN)<br>RC-3 SEABEE | STC-SA282NW<br>STC Bee INC.            | LYCOMING GO-480-G2D6<br>295 HP @ 2182 RPM                       | HC-A3MV5-3L<br>LMV9333N-4                | 89" NO CUT-OFF        |                  | 1712                 |
| REPUBLIC (STOL AMPHIBIAN)<br>RC-3 SEABEE | STC-SA3865SW<br>A. STEVEN HENSLEY      | LYCOMING GO-480-G2D6<br>295 HP @ 2182 RPM                       | HC-A3MV5-3L<br>LMV9333N-5                | 89.0" TO 88.0"        |                  | 1400                 |

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| <b>REPUBLIC (STOL AMPHIBIAN)</b><br>RC-3 SEABEE | STC-SA5652NM<br>T.A.C. INC.            | LYCOMING IO-540-K1B5<br>300 HP @ 2700 RPM   | HC-E3YR-7LF<br>FLC8468-4R                | 82"                   |                 | 920                  |
| <b>REPUBLIC (STOL AMPIBIAN)</b><br>RC-3 SEABEE  | STC-SA615NW<br>SIM-U-FLIGHT            | LYCOMING (I)G(S)O-480 SERIES<br>HP @ RPM    | HC-A3V20-3L<br>LV9333N-4                 |                       |                 | 2403                 |
| <b>REPUBLIC (STOL AMPIBIAN)</b><br>RC-3 SEABEE  | STC-SA615NW<br>SIM-U-FLIGHT            | LYCOMING (I)G(S)O-480 SERIES<br>HP @ RPM    | HC-A3V20-3L<br>LV9333N-5                 |                       |                 | 2404                 |
| <b>REPUBLIC (STOL AMPIBIAN)</b><br>RC-3 SEABEE  | STC-SA615NW<br>SIM-U-FLIGHT            | LYCOMING IGSO-540-A1B6<br>340 HP @ 2182 RPM | HC-A3V20-3L<br>LV9333N-4<br>LV9333N-5    | 89.6"                 |                 | 2405                 |
| <b>REPUBLIC (STOL AMPIBIAN)</b><br>RC-3 SEABEE  | FIELD APPROVAL                         | CONTINENTAL IO-470-P<br>HP @ RPM            | HC-A2X20-5L                              |                       |                 | 2401                 |
| <b>REPUBLIC (STOL AMPIBIAN)</b><br>RC-3 SEABEE  | FIELD APPROVAL                         | CONTINENTAL IO-470-P<br>HP @ RPM            | HC-A2V20-5L<br>LV8433N                   |                       |                 | 2402                 |
| <b>REPUBLIC (STOL AMPIBIAN)</b><br>RC-3 SEABEE  | Unknown                                | LYCOMING GO-480-G2D6<br>340 HP @ 2182 RPM   | HC-A3V20-3L                              |                       |                 | 2406                 |
| <b>REVO</b><br>see LAKE, COLONIAL               |  | HP @ RPM                                    |  |                       |                 | 921                  |
| <b>REVO (COLONIAL)</b><br>C-2 COLONIAL SKIMMER  | 1A13                                   | LYCOMING O-360-A1A<br>180 HP @ 2700 RPM     | HC-92ZK-6DL-1<br>L8447-12A<br>L8447N-12A | 72" TO 70.5"          | 835-30          | 1579                 |
| <b>REVO (COLONIAL)</b><br>C-2 COLONIAL SKIMMER  | 1A13                                   | LYCOMING O-360-A1A<br>180 HP @ 2700 RPM     | HC-92WK-8L<br>LW8447-12A<br>LW8447N-12A  | 72" TO 70.5"          | 835-30          | 446                  |
| <b>ROCKWELL</b><br>see AERO COMMANDER           |  | HP @ RPM                                    |  |                       |                 | 922                  |

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| <b>ROCKWELL</b><br>OV-10 (left side) BRONCO          | UNKNOWN<br>MARSH AVIATION              | HONEYWELL T76-G-418M<br>840 HP @ 2000 RPM   | HC-B4MN-5B<br>M9990N                   | 100" TO 99"           | 100635<br>D-4846-1    | <b>2012</b>          |
| <b>ROCKWELL</b><br>OV-10 (right side) BRONCO         | Unknown<br>MARSH AVIATION              | HONEYWELL T76-G-419M<br>840 HP @ 2000 RPM   | HC-B4MN-5BL<br>LM9990N                 | 100" to 99"           | 100635<br>D-4846-1    | <b>2013</b>          |
| <b>S.N.A. INC.</b><br>SEAWIND                        | Experimental<br>A.C.E.AVIATION, INC.   | LYCOMING TIO-540-J2BD<br>350 HP @ 2575 RPM  | HC-E3YR-1RF<br>F8468A-10Q              | 76"                   | C-3535-1P<br>C-3535-1 | <b>1527</b>          |
| <b>S.N.A. INC.</b><br>SEAWIND                        | Experimental                           | LYCOMING IO-540-K1G5<br>300 HP @ 2700 RPM   | HC-E3YR-1RF<br>F8468A-10Q              | 76" TO 78"            | C-3535-1<br>C-3535-1P | <b>1200</b>          |
| <b>S.N.A. INC.</b><br>SEAWIND                        | Experimental                           | LYCOMING IO-540-K1G5<br>300 HP @ 2700 RPM   | HC-E3YR-1RF<br>F8468-10R               | 76"                   | C-3535-1P<br>C-3535-1 | <b>1346</b>          |
| <b>S.N.A. INC.</b><br>SEAWIND                        | Experimental                           | LYCOMING IO-540-K1G5<br>300 HP @ 2700 RPM   | HC-E3YR-1RF<br>F8468A-12Q              | 74"                   | C-3535-1P<br>C-3535-1 | <b>1347</b>          |
| <b>SAAB</b><br>91D SAFIR                             | Unknown                                | LYCOMING O-360-A1A<br>180 HP @ 2700 RPM   | HC-92ZK-8D<br>8447A-12A                | 72                    | 835-30P<br>835-30     | <b>1987</b>          |
| <b>SAAB-SCANIA AB</b><br>MFI-15 SAFARI/SUPPORTER     | Unknown                                | LYCOMING IO-360-A1B6<br>200 HP @ 2700 RPM   | HC-C2YK-4BF<br>FC7666A-2               | 74"                   |                       | <b>923</b>           |
| <b>SAUNDERS</b><br>see DEHAVILLAND                   |  | HP @ RPM  |  |                       |                       | <b>926</b>           |
| <b>SCHWEIZER</b><br>G-164A, G-164B, G-164C Turbo Cat | SA2444SW<br><br>TURBINE CONVERSIONS    | PRATT & WHITNEY PT6A-15AG, -20A, -28, -34, -34AG, -36, -41, -41G, -135, -135AG<br>750 HP @ 2200 RPM | HC-B3TN-3D<br><br>T10282N<br>T10282N+4 | 106.5" to 100"        | C-3065-P              | <b>3071</b>          |

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| <b>SCHWEIZER (GRUMMAN)</b><br>G-164 AG CAT          | 1A16                                   | JACOBS R755-A2M1<br>330 HP @ 2200 RPM   | HC-B3Z20-1<br>10160-8<br>10160N-8             | 93" NO CUT OFF        | 836-15R               | <b>927</b>           |
| <b>SCHWEIZER (GRUMMAN)</b><br>G-164 AG CAT          | STC-SA4127WE<br>FLOYD STILWELL         | HONEYWELL TPE331-1-101Z<br>600 HP @ 2000 RPM  | HC-B3TN-5C<br>T10282+4<br>T10282N+4           | 106.5" TO 102.0"      |                       | <b>931</b>           |
| <b>SCHWEIZER (GRUMMAN)</b><br>G-164 AG CAT          | STC-SA7966SW<br>S & R AIRCRAFT         | HONEYWELL TPE331-1-101Z<br>600 HP @ 2000 RPM  | HC-B3TN-5C<br>T10282+4<br>T10282N+4           | 106.5" TO 102.0"      |                       | <b>930</b>           |
| <b>SCHWEIZER (GRUMMAN)</b><br>G-164 AG CAT          | STC-SA7769SW<br>JOE PEACOCK            | GARRETT TPE331-25( ),-43,-47,-55,-57,-61<br>575 HP @ 2000 RPM                             | HC-B3TN-5D, -5E<br>T10282<br>T10282N          | 102" TO 96.0"         |                       | <b>933</b>           |
| <b>SCHWEIZER (GRUMMAN)</b><br>G-164 AG CAT          | STC-SA7987SW<br>AGRI-JET POWER         | HONEYWELL TPE331-6-252<br>600 HP @ 2000 RPM   | HC-B3TN-5E, -5M<br>T10282+4                   | 106.5" TO 101.0"      | C-3043-2<br>D-3434    | <b>934</b>           |
| <b>SCHWEIZER (GRUMMAN)</b><br>G-164A, G-164B AG CAT | STC-SA1377GL<br>TURBINES INC.          | PRATT & WHITNEY PT6A-(6B,15AG,20,20A,20B,6/C20,21,27,28,34,34AG,135)<br>550 HP @ 2000 RPM | HC-B3TN-3C, -3D, -3K<br>T10282+4<br>T10282N+4 | 106.5" TO 100.5"      | C-3065-P              | <b>929</b>           |
| <b>SEQUOIA AIRCRAFT</b><br>FALCO F.8.L              | Unknown                                | LYCOMING IO-320-B1A<br>160 HP @ 2700 RPM  | HC-C2YL-1BF<br>F7663A-4                       | 72.0" TO 70.0"        | A-2298-2<br>A-2298-2P | <b>1168</b>          |
| <b>SEQUOIA AIRCRAFT</b><br>FALCO F.8.L              | Unknown                                | LYCOMING IO-360-B1E<br>180 HP @ 2700 RPM  | HC-C2YK-1BF<br>F7666A-2                       | 74"                   | A-2298-2<br>A-2298-2P | <b>1167</b>          |
| <b>SEQUOIA AIRCRAFT</b><br>FALCO F.8.L              | Unknown                                | LYCOMING IO-360-B1E<br>180 HP @ 2700 RPM  | HC-C2YR-1BFP<br>F7497                         | 74"                   | A-2298-2<br>A-2298-2P | <b>3486</b>          |

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| SHERPA AIRCRAFT MFGR CO.<br>SHERPA                            | Experimental                               | LYCOMING IO-720-A1A<br>400 HP @ 2650 RPM                   | HC-C3YR-1RF<br>F8483   | 86.0" TO 80.0"        | A-4203-1              | 1340                 |
| <b>SHORT BROTHERS</b><br>SC7 SERIES 3 SKYVAN                  | A15EU                                      | HONEYWELL TPE331-2-201A<br>715 HP @ 2000 RPM               | HC-B3TN-5C, -5E, -5M<br>T10282<br>T10282B<br>T10282N<br>T10282NB         | 102.0" TO 99.0"       | D-3434-1P             | 937                  |
| <b>SHORT BROTHERS</b><br>S312 TUCANO                          | Unknown                                    | HONEYWELL TPE331-12B<br>1100 HP @ 2000 RPM                 | HC-D4N-5C<br>D9327K  | 94"                   | D-5319-P<br>D-5319    | 942                  |
| <b>SHORT BROTHERS</b><br>S312 TUCANO                          | Unknown                                    | HONEYWELL TPE331-12B<br>1100 HP @ 2000 RPM                 | HC-D4N-5E<br>D9327K  | 94"                   | D-5319-P<br>D-5319    | 1445                 |
| <b>SHORT BROTHERS</b><br>SD3-30                               | A41EU                                      | PRATT & WHITNEY PT6A-45A, -45B, -45R<br>1173 HP @ 1700 RPM | HC-B5MP-3A<br>M10282AB+6<br>M10282AB+6*1<br>M10282ANB+6<br>M10282ANB+6*1 | 111.3" TO 110.7"      | D-3434-8<br>D-3434-8P | 939                  |
| <b>SHORT BROTHERS</b><br>SD3-60-200, SD3-SHERPA-200<br>SHERPA | A41EU                                      | PRATT & WHITNEY PT6A-65(A)R<br>1403 HP @ 1675 RPM          | HC-B5MP-3C<br>M10876ANSK<br>M10876ANSK*2<br>M10876ASK                    | 111.2" TO 110.7"      | D-3434-8P             | 940                  |
| <b>SHORT BROTHERS</b><br>SD3-60                               | A41EU                                      | PRATT & WHITNEY PT6A-67R<br>1424 HP @ 1700 RPM             | HC-A6A-3<br>A10460<br>A10460E<br>A10460EK                                | 108.0" TO 107.875"    | D-5311-1<br>D-5311    | 941                  |
| <b>SIAI MARCHETTI (AERMACCHI)</b><br>F.260, F.260B            | A10EU                                      | LYCOMING O-540-E4A5<br>260 HP @ 2700 RPM                   | HC-C2YK-1B, -1BF<br>F8467-8R   | 76" TO 75"            |                       | 950                  |

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| <b>SIAI MARCHETTI (AERMACCHI)</b><br>F.260(C,D,E,F)   | A10EU                                  | LYCOMING O-540-E4A5 (C,F)IO-540-D4A5 (E)AEIO-540-D4A5 (D,E)<br>260 HP @ 2700 RPM | HC-C2YK-4F<br>FC8477-8R                   | 76" NO CUT OFF        | 835-41           | <b>952</b>           |
| <b>SIAI MARCHETTI (AERMACCHI)</b><br>F.260C, D, E, F  | A10EU                                  | LYCOMING O-540-E4A5, AEIO-540-D4A5, IO-540-D4A5, O-540-E4A5<br>260 HP @ 2700 RPM | HC-C2YK-1BF<br>F8477-8R<br>F8477-8R*1     | 76" NO CUT OFF        | 835-33<br>835-20 | <b>951</b>           |
| <b>SIAI MARCHETTI (AerMacchi)</b><br>F.260C, D        | STC-SA2252CE<br>SIAI MARCHETTI         | ALLISON 250-B17D<br>317 HP @ 2030 RPM  | HC-B3TF-7A<br>T10173-25R<br>T10173N-25R   | 76.5" TO 74           | 835-39           | <b>955</b>           |
| <b>SIAI MARCHETTI (AERMACCHI)</b><br>F.260C, D, E     | STC-SA302GL<br>GARY FRITZLER           | LYCOMING O-540-E4A5, (AE)IO-540-D4A5<br>260 HP @ 2700 RPM                        | HC-C2YK-4( )F<br>FC8477-8R                | 76"                   |                  | <b>954</b>           |
| <b>SIAI MARCHETTI (AERMACCHI)</b><br>F.260E           | A10EU                                  | LYCOMING IO-540-D4A5<br>260 HP @ 2700 RPM  | HC-C2YK-1BF<br>F8477-8R                   | 76" NO CUT OFF        |                  | <b>202</b>           |
| <b>SIAI MARCHETTI (AerMacchi)</b><br>SM-1019          | Unknown                                | ALLISON 250-B15G<br>317 HP @ 2060 RPM  | HC-B3TF-7A<br>T10173E-11R<br>T10173NE-11R | 89.6"                 | 835-39           | <b>957</b>           |
| <b>SIAI MARCHETTI (OMA-Foligno)</b><br>S.205-18F, 18R | A9EU                                   | LYCOMING O-360-A1A<br>180 HP @ 2700 RPM  | HC-C2YK-1BF<br>F7666A-2                   | 74" TO 72"            | 835-33           | <b>943</b>           |
| <b>SIAI MARCHETTI (OMA-Foligno)</b><br>S.205-20F, 20R | A9EU                                   | LYCOMING IO-360-A1A<br>200 HP @ 2700 RPM   | HC-C2YK-1BF<br>F7666A-2                   | 74" TO 72"            | 835-33           | <b>944</b>           |
| <b>SIAI MARCHETTI (OMA-FOLIGNO)</b><br>S.208, A       | A9EU                                   | LYCOMING IO-540-E4A5<br>260 HP @ 2700 RPM  | HC-C2YK-1B<br>F8467-8R                    | 76" TO 75"            | 835-33<br>835-20 | <b>947</b>           |
| <b>SIAI MARCHETTI (OMA-FOLIGNO)</b><br>S.208, A       | A9EU                                   | LYCOMING IO-540-E4A5<br>260 HP @ 2700 RPM  | HC-C2YK-1BF<br>F8477-8R                   | 76" NO CUT OFF        | 835-33<br>835-20 | <b>946</b>           |

# HARTZELL

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|--|--|---|---|-----------------------|-----------------------|----------------------|
| <b>SIAI MARCHETTI (OMA-FOLIGNO)</b><br>S.210       | A25EU                                  | LYCOMING TIO-360-A1B<br>200 HP @ 2575 RPM     | HC-C2YK-2B (per T.C.), -2CF (Hz)<br>FC8468-10R  | 74" NO CUT OFF        | 836-29                | <b>949</b>           |
| <b>SIAI MARCHETTI (VulcanAir)</b><br>SF600 CANGURO | A61EU                                  | ALLISON 250-B17C<br>420 HP @ 2030 RPM         | HC-B3TF-7A<br>T10173-11R<br>T10173B-11R<br>T10173K-11R<br>T10173N-11R<br>T10173NB-11R<br>T10173NK-11R | 90 3/8 minimum        | 835-39                | <b>956</b>           |
| <b>SIERRA HOTEL AERO</b><br>Navion A,B,D-H Navion  | Form 337                               | Contintal IO-550-B<br>300 HP @ 2700 RPM       | PHC-C3YF-1RF<br>F8068   | 82" to 80" inches     | A-2295-1P<br>A-2295-1 | <b>3166</b>          |
| <b>SIMMERING GRAZ PAUKER A.G.</b><br>SGP222-A      | A2EU                                   | LYCOMING IO-360-A1A<br>200 HP @ 2700 RPM      | HC-C2YK-2RB<br>F7666A-2   | 74" NO CUT OFF        | 835-21P               | <b>959</b>           |
| <b>SIMMERING GRAZ PAUKER A.G.</b><br>SGP222        | A2EU                                   | LYCOMING IO-360-B1A<br>180 HP @ 2700 RPM      | HC-92ZK-2B<br>8447-12A<br>8447N-12A   | 71.6" TO 70"          | 835-30                | <b>958</b>           |
| <b>SKYDANCER AVIATION</b><br>SD-260                | Experimental                           | LYCOMING IO-540-C4B5<br>260 HP @ 2700 RPM     | HC-C2YR-4CF<br>FC8477A-4*1  | 80"                   | 836-60                | <b>1341</b>          |
| <b>SLINGSBY</b><br>T67M200 FIREFLY                 | Unknown                                | LYCOMING AEIO-360-A1E<br>200 HP @ 2700 RPM    | HC-C2YR-4CF<br>FC7666A-2  | 74"                   | 836-60P               | <b>1343</b>          |
| <b>SNOW</b><br>see AYRES                           |  | HP @ RPM                                      |   |                       |                       | <b>960</b>           |
| <b>SOCATA</b><br>see AEROSPATIALE                  |  | HP @ RPM                                      |   |                       |                       | <b>961</b>           |
| <b>SOCATA</b><br>TBM 700 TBM 900                   | A60EU                                  | Pratt & Whitney PT6A-66D<br>850 HP @ 2000 RPM | HC-E5N-3C<br>NC8834K  | 91"                   | 104552<br>104552P     | <b>3253</b>          |

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|---|--|--|--|-----------------------|--|----------------------|
| <b>SOCATA</b><br>TBM 700                        | SA03291CH<br>Hartzell Propeller        | Pratt & Whitney PT6A-64, PT6A-66D<br>700 HP @ 2000 RPM | HC-E5N-3C<br>NC8834K*1                 | 91"                   | 105180P<br>105180                      | <b>3270</b>          |
| <b>SOKO</b><br>J-20 KRAGUJ                      | UNKNOWN                                | LYCOMING GSO-480-B1A6<br>340 HP @ 2182 RPM             | HC-B3Z20-1<br>10151CN-5                | 96"                   |  | <b>2767</b>          |
| <b>SORRELL</b><br>SNS-7                         | Experimental                           | LYCOMING IO-360-B1E<br>180 HP @ 2700 RPM               | HC-C2YK-4CF<br>FC7666A-2<br>FC7666A-4Q | 74"                   | 836-52                                 | <b>963</b>           |
| <b>SORRELL</b><br>SNS-7 HYPERBIPE               | Experimental                           | LYCOMING IO-360 SERIES<br>200 HP @ 2700 RPM            | HC-C2YR-4CF<br>FC7666A-2<br>FC7666A-4  | 74"-72"               | 836-52P<br>836-52<br>836-60<br>836-60P | <b>2775</b>          |
| <b>SPARTON</b><br>7W                            | STC-SA4-1408<br>WEST COAST PROP.       | HP @ RPM   | HC-B3Z30-1E<br>10152-5.5<br>10152N-5.5 | 96"                   | 836-32SPR                              | <b>964</b>           |
| <b>STAUDACHER AIRCRAFT</b><br>STAUDACHER 300    | EXPERIMENTAL                           | LYCOMING AEIO-540<br>280 HP @ 2700 RPM                 | HC-C3YR-4A<br>C7690E                   | 78" NO CUT OFF        | D-7267<br>D-7267-P                     | <b>2692</b>          |
| <b>STAUDACHER AIRCRAFT</b><br>STAUDACHER S-1000 | Experimental                           | LYCOMING IO-540-D4A5<br>260 HP @ 2700 RPM              | HC-C3YR-1RF<br>F8068                   | 82"                   | C-3570-P                               | <b>1352</b>          |
| <b>STAUDACHER AIRCRAFT</b><br>STAUDACHER 300    | Experimental                           | LYCOMING AEIO-540<br>280 HP @ 2700 RPM                 | HC-C3YR-1A<br>7690C                    | 78" NO CUT OFF        | D-6936-P<br>C-3570-P                   | <b>1353</b>          |
| <b>STAUDACHER AIRCRAFT</b><br>STAUDACHER 300    | Experimental                           | LYCOMING IO-540-K<br>300 HP @ 2700 RPM                 | HC-C2YR-4CF<br>FC8477A-4*1             | 80"                   | 836-60<br>836-60P                      | <b>1354</b>          |
| <b>STEEN (See also STOLP)</b><br>SKYBOLT        | Experimental                           | LYCOMING IO-360-A1B, C1E6<br>200 HP @ 2700 RPM         | HC-C2YR-4BF, -4CF<br>FC7666A-2         | 74"                   | 836-52                                 | <b>968</b>           |



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|---|--|--|--|-----------------------|------------------------------|----------------------|
| <b>STEEN (See also STOLP)</b><br>SKYBOLT  | Experimental                           | LYCOMING IO-360-A1A<br>200 HP @ 2700 RPM         | HC-C2YR-4BF, -4CF<br>FC7666A-2                 | 74"                   | 836-52<br>C-2513-5<br>835-41 | <b>1355</b>          |
| <b>STEEN (See also STOLP)</b><br>SKYBOLT  | Experimental<br>UNIVAIR                | LYCOMING IO-540-C4B5<br>250 HP @ 2575 RPM        | HC-C2YK-4F<br>FC8477A-7                        | 77"                   | 835-33                       | <b>970</b>           |
| <b>STEEN (See also STOLP)</b><br>SKYBOLT  | Experimental                           | LYCOMING AEIO-540-D4A5<br>260 HP @ 2700 RPM      | HC-C3YR-4A<br>C7690E                           | 78" NO CUT OFF        | D-7267-P                     | <b>3849</b>          |
| <b>STEEN (See also STOLP)</b><br>SKYBOLT  | Experimental                           | LYCOMING AEIO-540-D4A5<br>260 HP @ 2700 RPM      | HC-C3YR-1A<br>7690E                            | 78" NO CUT OFF        | C-3570-P<br>D-6936-P         | <b>1356</b>          |
| <b>STEEN (See also STOLP)</b><br>SKYBOLT  | Experimental                           | LYCOMING AEIO-540-A2B (MOD)<br>320 HP @ 2700 RPM | HC-C3YR-1A<br>7690E                            | 78" NO CUT OFF        | C-3570-P<br>D-6936-P         | <b>1357</b>          |
| <b>STEEN AERO LAB</b><br>SKYBOLT          | Experimental                           | LYCOMING IO-540-C4B5<br>250 HP @ 2575 RPM        | HC-C2YR-4CF<br>FC8477A-4*1                     | 80"                   |                              | <b>2533</b>          |
| <b>STEWART 51 INC.</b><br>S51D STEWART 51 | Experimental                           | STEWART GIVL-454A<br>400 HP @ 2275 RPM           | HC-B4TN-1X1<br>T9212N-2                        | 91" to 90"            |                              | <b>1387</b>          |
| <b>STEWART 51 INC.</b><br>S51D STEWART 51 | Experimental                           | STEWART GIV-502A<br>500 HP @ 2230 RPM            | HC-B4TN-1AX2<br>T10178N-11*1X                  | 91.5" to 90.5"        |                              | <b>1386</b>          |
| <b>STINSON</b><br>108-1, -2, -3           | STC-SA4-46<br>SERV-AERO ENG.           | LYCOMING O-435-1<br>190 HP @ 2550 RPM            | HC-12V20-8, HC-D2V20-8, HC-12V20-8D<br>V8433-6 | 78" - 76.5"           |                              | <b>2288</b>          |
| <b>STINSON</b><br>108-1, -2, -3           | STC-SA4-46<br>SERV-AERO ENG.           | LYCOMING O-435-1<br>190 HP @ 2550 RPM            | HC-12X20-8, HC-D2X20-8, HC-12X20-8D<br>8433-6  | 78" TO 76.5"          |                              | <b>2287</b>          |
| <b>STINSON</b><br>108-1, -2, -3           | STC-SA4-46<br>SERV-AERO ENG.           | LYCOMING O-435-1<br>190 HP @ 2550 RPM            | HC-D2MV20-8<br>MV8433N-6                       | 78" TO 76.5"          |                              | <b>977</b>           |

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|---|--|--|---|-----------------------|--------------------|----------------------|
| <b>STINSON</b><br>108-2,-3                    | STC-SA1199WE<br>PDX AIRCRAFT           | CONTINENTAL O-470-A, -J, -K, -L<br>225 HP @ 2600 RPM | HC-A2XF-1A, HC-82XF-1A<br>8433                      | 84.3"                 | 835-13             | 2283                 |
| <b>STINSON</b><br>108-2,-3                    | STC-SA1199WE<br>PDX AIRCRAFT           | CONTINENTAL O-470-A, -J, -K, -L<br>225 HP @ 2600 RPM | HC-A2MVf-1A<br>MV8433N                              | 84.3"                 | 835-13             | 975                  |
| <b>STINSON</b><br>108-2,-3                    | STC-SA1199WE<br>PDX AIRCRAFT           | CONTINENTAL O-470-A, -J, -K, -L<br>225 HP @ 2600 RPM | HC-A2VF-1, HC-A2VF-1A, HC82VF-1A<br>V8433<br>V8433N | 84.3"                 | 835-13             | 2284                 |
| <b>STINSON</b><br>108-1, 108-2, 108-3 VOYAGER | SA313NW<br>FRANKLIN AIRCRAFT ENGINES   | FRANKLIN 6A-350-C1, -C2<br>220 HP @ 2800 RPM         | HC-C2YF-1BF<br>F8459A-4                             | 80" TO 76"            | A-4203<br>A-4203-P | 1741                 |
| <b>STINSON</b><br>108-2,-3                    | STC-SA4-398<br>SERV-AERO ENG.          | LYCOMING O-435-C<br>190 HP @ 2550 RPM                | HC-12X20-8, HC-D2X20-8<br>8433-6                    | 78" TO 86.5"          |                    | 2285                 |
| <b>STINSON</b><br>108-2,-3                    | STC-SA4-398<br>SERV-AERO ENG.          | LYCOMING O-435-C<br>190 HP @ 2550 RPM                | HC-12V20-8, HC-D2V20-8<br>V8433-6<br>V8433N-6       | 78" TO 86.5"          |                    | 2286                 |
| <b>STINSON</b><br>108-2,-3                    | STC-SA4-398<br>SERV-AERO ENG.          | LYCOMING O-435-C<br>190 HP @ 2550 RPM                | HC-D2MV20-8<br>MV8433N-6                            | 78" TO 86.5"          |                    | 976                  |
| <b>STINSON</b><br>108; 108-1,-2,-3            | A767                                   | LYCOMING O-435-A, -C<br>190 HP @ 2550 RPM            | HC-12X20-8C, -D2X20-8<br>8428-6                     | 78" TO 76.5"          |                    | 973                  |
| <b>STINSON</b><br>108; 108-1,-2,-3            | A767                                   | LYCOMING O-435-A, -C<br>190 HP @ 2550 RPM            | HC-12X20-8C, HC-D2X20-8<br>8433-6                   | 78" TO 76.5"          |                    | 2280                 |
| <b>STINSON</b><br>108; 108-1,-2,-3            | A-767                                  | LYCOMING O-435-A, -C<br>190 HP @ 2550 RPM            | HC-12X20-8, HC-D2X20-8, HC-12X20-8D<br>8433-6       | 78" TO 76.5"          |                    | 2281                 |
| <b>STINSON</b><br>108; 108-1,-2,-3            | A-767                                  | LYCOMING O-435-A, -C<br>190 HP @ 2550 RPM            | HC-12V20-8, HC-D2V20-8, HC-12V20-8D<br>V8433-6      | 78" TO 76.5"          |                    | 2282                 |

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|---|--|---|---|-----------------------|-----------------|----------------------|
| <b>STINSON</b><br>108; 108-1,-2,-3                | A-767                                  | LYCOMING O-435-A, -C<br>190 HP @ 2550 RPM       | HC-D2MV20-8<br>MV8433N-6                        | 78" TO 76.5"          |                 | 974                  |
| <b>STINSON</b><br>108, 108-1, 108-2, 108-3        | SA964NW<br>Stinson Bobcat              | Textron Lycoming O-360-A1A<br>180 HP @ 2700 RPM | HC-C2YK-1BF<br>F7666A                           | 76" No Cut Off        |                 | 3048                 |
| <b>STINSON</b><br>L-5; L-5B,-5C,-5D,-5E,-5E-1,-5G | A764                                   | LYCOMING O-435-C, -1, -11<br>190 HP @ 2550 RPM  | HC-12X20-4<br>8428+2                            | 85" TO 83"            |                 | 971                  |
| <b>STINSON</b><br>L-5                             | Unknown<br>E.G. LEEMAN                 | LYCOMING O-435-C<br>190 HP @ 2550 RPM           | HC-D2X20-8<br>8433-6                            | 78"                   |                 | 2407                 |
| <b>STINSON</b><br>L-5                             | Unknown<br>E.G. LEEMAN                 | LYCOMING O-435-C<br>190 HP @ 2550 RPM           | HC-D2V20-8<br>V8433-6<br>V8433N-6               | 78"                   |                 | 2408                 |
| <b>STODDARD HAMILTON</b><br>GLASAIR               | Experimental                           | LYCOMING IO-360 SERIES<br>200 HP @ 2700 RPM     | HC-M2YR-1BF<br>F7666A-2                         | 74"                   |                 | 529                  |
| <b>STODDARD HAMILTON</b><br>GLASAIR II            | Experimental                           | LYCOMING IO-320 SERIES<br>160 HP @ 2700 RPM     | HC-C2YL-1BF<br>F7663D-4                         | 72" TO 70"            |                 | 1811                 |
| <b>STODDARD HAMILTON</b><br>GLASAIR               | Experimental                           | LYCOMING IO-320 SERIES<br>160 HP @ 2700 RPM     | HC-F2YL-1F<br>F7663D-4<br>F7663D-6<br>F7663D-6Q | 72 TO 70"             |                 | 530                  |
| <b>STODDARD HAMILTON</b><br>GLASAIR II            | Experimental                           | LYCOMING IO-360-B1B<br>180 HP @ 2700 RPM        | HC-F2YR-1F<br>F7068-2                           | 68"                   |                 | 1359                 |
| <b>STODDARD HAMILTON</b><br>GLASAIR II            | Experimental                           | LYCOMING IO-360 SERIES<br>200 HP @ 2700 RPM     | HC-C2YK-1BF<br>F7666A-2                         | 74"                   |                 | 528                  |
| <b>STODDARD HAMILTON</b><br>2 SRG GLASAIR         | Experimental                           | LYCOMING IO-360<br>200 HP @ 2700 RPM            | HC-C2Y(K,R)-4CF<br>FC7666A-4                    | 72"                   | 836-60          | 532                  |

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|--|--|--|----------------------------------|-----------------------|-------------------|----------------------|
| <b>STODDARD HAMILTON</b><br>SUPER 2SRG GLASAIR   | Experimental                           | LYCOMING IO-360-B1( ), E1A, F1A<br>180 HP @ 2700 RPM | HC-C2YR-1BF<br>F7068-2           | 68"                   |                   | 1358                 |
| <b>STODDARD HAMILTON</b><br>GLASAIR III          | Experimental                           | LYCOMING IO-540 SERIES<br>300 HP @ 2700 RPM          | HC-C2YK-1BF<br>F8475J-4          | 78" TO 80"            |                   | 531                  |
| <b>STODDARD HAMILTON</b><br>GS-1 GLASTAR         | Experimental                           | LYCOMING IO-320-D1F<br>160 HP @ 2700 RPM             | HC-F2YL-1F<br>F7663-3            | 73"                   | 835-23<br>835-23P | 1229                 |
| <b>STODDARD HAMILTON</b><br>GS-1 GLASTAR         | Experimental                           | LYCOMING O-360-A1F6<br>180 HP @ 2700 RPM             | HC-F2YR-1F<br>F7666A-2           | 74"                   | 835-23<br>835-23P | 1230                 |
| <b>STOL A/C</b><br>UC-1                          | A6EA                                   | LYCOMING IO-360-B1D<br>180 HP @ 2700 RPM             | HC-C2YK-2RB(F)<br>F7666A-2       | 74" TO 72"            | 836-29P<br>836-29 | 979                  |
| <b>STOL AMPHIBIAN</b><br>see REPUBLIC            |  | HP @ RPM   |                                  |                       |                   | 980                  |
| <b>STOLP</b><br>STARDUSTER                       | Experimental                           | LYCOMING O-360-A1F6<br>180 HP @ 2700 RPM             | HC-C2YK-4AF<br>FC7666A-4         | 72"                   | 836-52            | 983                  |
| <b>STOLP</b><br>STARDUSTER                       | Experimental                           | LYCOMING O-540-( )<br>260 HP @ 2700 RPM              | HC-C2YR-4CF<br>FC8477A-8R        | 76"                   |                   | 984                  |
| <b>STOLP</b><br>STARDUSTER                       | Experimental                           | LYCOMING IO-540-D4A5<br>260 HP @ 2700 RPM            | HC-C2YK-1BF<br>F8467-8           | 76"                   | 836-52            | 982                  |
| <b>STOLP</b><br>STARDUSTER                       | Experimental                           | LYCOMING IO-540-D4A5<br>260 HP @ 2700 RPM            | HC-C2YK-4AF<br>FC8467-7R         | 77"                   | 836-52            | 981                  |
| <b>SUD AVIATION (SOCATA)</b><br>GY.80-150 GARDAN | A12IN                                  | LYCOMING O-320-A3C<br>150 HP @ 2700 RPM              | HC-82XL-1, HC-A2XL-1<br>7636-4   | 72" TO 70"            | 835-30<br>835-6P  | 2289                 |

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|--|--|---|----------------------------------|-----------------------|------------------|----------------------|
| <b>SUD AVIATION (SOCATA)</b><br>GY.80-150 GARDAN         | A12IN                                      | LYCOMING O-320-A3C<br>150 HP @ 2700 RPM   | HC-82VL-1, HC-A2VL-1<br>V7636D-4 | 72" TO 70"            | 835-30<br>835-6P | <b>2290</b>          |
| <b>SUD AVIATION (SOCATA)</b><br>GY.80-150 GARDAN         | A12IN                                      | LYCOMING O-320-A3C<br>150 HP @ 2700 RPM   | HC-A2MVL-1<br>MV7636N-4          | 72" TO 70"            | 835-30<br>835-6P | <b>985</b>           |
| <b>SUD AVIATION (SOCATA)</b><br>GY.80-160 GARDAN HORIZON | A12IN                                      | LYCOMING O-320-B3C<br>160 HP @ 2700 RPM   | HC-82XL-1, HC-A2XL-1<br>7636-4   | 72" TO 70"            | 835-30<br>835-6P | <b>2291</b>          |
| <b>SUD AVIATION (SOCATA)</b><br>GY.80-160 GARDAN HORIZON | A12IN                                      | LYCOMING O-320-B3C<br>160 HP @ 2700 RPM   | HC-82VL-1, HC-A2VL-1<br>V7636D-4 | 72" TO 70"            | 835-30<br>835-6P | <b>2292</b>          |
| <b>SUD AVIATION (SOCATA)</b><br>GY.80-160 GARDAN HORIZON | A12IN                                      | LYCOMING O-320-B3C<br>160 HP @ 2700 RPM   | HC-A2MVL-1<br>MV7636N-4          | 72" TO 70"            | 835-30<br>835-6P | <b>986</b>           |
| <b>SUD AVIATION (SOCATA)</b><br>GY.80-160 GARDAN HORIZON | Unknown                                    | LYCOMING O-320-B3C<br>160 HP @ 2700 RPM   | HC-C2YL-1BF<br>F7663A-4          | 72"                   | 835-20           | <b>987</b>           |
| <b>SUD AVIATION (SOCATA)</b><br>GY.80-180 GARDAN         | Unknown                                    | LYCOMING O-360-A1A<br>180 HP @ 2700 RPM   | HC-C2YK-1BF<br>F7666A-2          | 74"                   | 835-20           | <b>988</b>           |
| <b>SWEARINGEN (See also FAIRCHILD)</b><br>SX300          | Experimental                               | LYCOMING IO-540-L1A5<br>300 HP @ 2700 RPM | HC-E3YR-1RF<br>F8468T-12         | 74"                   | C-3535-1         | <b>990</b>           |
| <b>SWIFT</b><br>GC-1B                                    | Unknown<br>E.J. FALTENBACHER               | LYCOMING IO-320-B1A<br>160 HP @ 2700 RPM  | HC-82XL-1D<br>7636D-4            | 72.2"                 |                  | <b>2409</b>          |
| <b>SWIFT</b><br>GC-1B                                    | Unknown                                    | LYCOMING IO-320-B1A<br>160 HP @ 2700 RPM  | HC-A2XL-1<br>7636-4              |                       |                  | <b>2410</b>          |
| <b>SWIFT</b><br>GC-1B                                    | Unknown                                    | LYCOMING IO-320-B1A<br>160 HP @ 2700 RPM  | HC-A2VL-1<br>V7636N-4            |                       |                  | <b>2411</b>          |

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|--|--|--|-------------------------------------|-----------------------|-----------------------|----------------------|
| SWIFT MUSEUM FOUNDATION<br>GC-1B       | A-766                                  | LYCOMING O-360-A1A<br>180 HP @ 2700 RPM    | HC-C2YK-1BF<br>F7666A-2             | 74"-72"               | D-4798P<br>A-2298-2   | 2006                 |
| TAYLORCRAFT<br>20                      | 3A3                                    | CONTINENTAL O-470-J<br>225 HP @ 2550 RPM   | HC-A2MVF-1<br>MV8433N               | 84.2" TO 82.5"        | 835-13                | 995                  |
| TAYLORCRAFT<br>20                      | 3A3                                    | CONTINENTAL O-470-A<br>225 HP @ 2600 RPM   | HC-A2MVF-1<br>MV8433N               | 84.2" TO 82.5"        | 835-13                | 994                  |
| TAYLORCRAFT<br>DCO-65                  | A746                                   | CONTINENTAL A-65-8<br>65 HP @ 2300 RPM     | HA-12U<br>7214-4<br>7214-4M<br>7414 | 74" TO 68"            |                       | 996                  |
| TEAL AIRCRAFT CORP<br>TSC-1A, 1A1, 1A2 | A15EA                                  | LYCOMING O-320-A3B<br>150 HP @ 2700 RPM    | HC-C2YL-1B<br>F7663A-4              | 72" TO 70"            |                       | 997                  |
| Team Rocket<br>F4 F4 Raider            | Experimental                           | Lycoming IO-360-()6<br>200 HP @ 2700 RPM   | HC-M3YR-1RFX<br>F7392-1X            | 74-73"                | C-3535-1P<br>C-3535-1 | 3673                 |
| Team Rocket<br>F4 F4 Raider            | Experimental                           | Continental Titan 370<br>210 HP @ 2700 RPM | HC-M2YR-1BFPX<br>F7497*3X<br>F7497X | 74-72"                | C-3533-P              | 3617                 |
| TEAM ROCKET<br>F1                      | Experimental                           | LYCOMING IO-540-C4B5<br>250 HP @ 2575 RPM  | HC-M2YR-1BF<br>F8475D-2*1           | 82" TO 80"            |                       | 2575                 |
| TEAM ROCKET<br>F1                      | Experimental                           | Continental IO-550-N<br>310 HP @ 2700 RPM  | HC-J2YF-1BF<br>F8068D*2             | 80"-78"               | C-3533-P<br>C-3533    | 3135                 |
| TEAM ROCKET<br>F1 ROCKET               | Experimental                           | LYCOMING IO-540-C4B5<br>250 HP @ 2575 RPM  | HC-M2YR-1BF<br>F8475D-4*3           | 80" TO 78"            | C-3533-P<br>C-3533    | 2050                 |

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|--|--|--|---|-----------------------|-------------------------|----------------------|
| <b>TEAM ROCKET</b><br>F1 ROCKET  | Experimental                                       | LYCOMING IO-540-D4A5<br>260 HP @ 2700 RPM                | HC-F3YR-1ARF<br>F7693DF<br>F7693DF*1          | 78" TO 76"            | C-3535-1P<br>C-3535-1   | <b>1844</b>          |
| <b>TED SMITH AEROSTAR</b><br>see AEROSTAR AIRCRAFT CORP.   |  | HP @ RPM   |   |                       |                         | <b>1385</b>          |
| <b>TEXAS BULLET</b><br>205 TEXAS BULLET  | 4A2  | CONTINENTAL E-185-1<br>205 HP @ 2600 RPM                 | HC-12X20-7<br>8428-6                          | 78" NO CUT OFF        |                         | <b>1001</b>          |
| <b>TEXAS BULLET</b><br>205 TEXAS BULLET  | 4A2  | CONTINENTAL E-185-1-7<br>205 HP @ 2600 RPM               | HC-12X20-7, HC-D2X20-7<br>8433-6              | 78" NO CUT OFF        |                         | <b>2293</b>          |
| <b>TEXAS BULLET</b><br>205 TEXAS BULLET  | 4A2  | CONTINENTAL E-185-1-7<br>205 HP @ 2600 RPM               | HC-12V20-7, HC-D2V20-7<br>V8433-6<br>V8433N-6 | 78" NO CUT OFF        |                         | <b>2294</b>          |
| <b>TEXAS BULLET</b><br>205 TEXAS BULLET  | 4A2  | CONTINENTAL E-185-1-7<br>205 HP @ 2600 RPM               | HC-D2MV20-7<br>MV8433N-6                      | 78" NO CUT OFF        |                         | <b>1002</b>          |
| <b>THORP</b><br>T-18   | Experimental                                       | LYCOMING O-320, IO-320<br>160 HP @ 2700 RPM              | HC-F2YL-1F<br>F7663A-4                        | 72" NO CUT OFF        |                         | <b>1003</b>          |
| <b>THORP</b><br>T-18   | Experimental                                       | LYCOMING O-360-A1A<br>180 HP @ 2700 RPM                  | HC-F2YR-1F<br>F7666A-4                        | 72" NO CUT OFF        |                         | <b>1004</b>          |
| <b>THRUSH</b><br>S2R Turbo Thrush  | SA00172SE<br>Valley Air Service                    | Honeywell TPE331-6-252M, 252B, 252T<br>700 HP @ 2000 RPM | HC-B3TN-5M<br>T10282N+4                       | 106.5" TO 102.0"      | C-3043-2P               | <b>3214</b>          |
| <b>THRUSH AIRCRAFT</b><br>S2R, S2R-R1340, STR-R3S, S2R-R1820, S2R-G1, S2R-G5, S2R-G6, S2R-G10, S2R-T11, S2R-T15, S2R-T34, S2R-T45, S2R-T65 | Experimental<br>Cascade Aircraft Conversions, LLC. | Pratt & Whitney PT6A (See note.)<br>850 HP @ 2000 RPM    | HC-B4TN-3C<br>T10702NS                        | 108"-107"             | D-3434-18P<br>D-3434-18 | <b>3536</b>          |

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| <b>THRUSH AIRCRAFT</b><br>S2R-H80                                    | A4SW                                   | GE Aviation Czech H80-100<br>800 HP @ 2080 RPM        | HC-B4TW-3<br>T10702N             | 108"-107"             | C-3425-P<br>C-3425              | <b>3417</b>          |
| <b>THRUSH AIRCRAFT</b><br>S2R-T15, S2R-T34, S2RHG-T34                | SA03439CH<br>AERO INNOVATIONS          | Pratt & Whitney PT6A (See note.)<br>750 HP @ 2200 RPM | HC-B4TN-3C<br>T10702NS           | 108"-107"             | D-3434-18P<br>D-3434-18         | <b>3290</b>          |
| <b>THRUSH AIRCRAFT</b><br>S-2R-T660 TURBO THRUSH                     | A4SW                                   | PRATT & WHITNEY PT6A-65AG<br>1295 HP @ 1700 RPM       | HC-B5MP-3(F)<br>M11276NS         | 115.2" TO 114.7"      | E-7256-P<br>E-7256              | <b>2023</b>          |
| <b>THRUSH AIRCRAFT</b><br>S-2R-T660 TURBO THRUSH                     | A4SW                                   | PRATT & WHITNEY PT6A-67AG<br>1300 HP @ 1700 RPM       | HC-B5MA-3D<br>M11276NS           | 115.2" TO 114.7"      | D-5497-P                        | <b>2024</b>          |
| <b>THRUSH AIRCRAFT</b><br>S2R-H80, S2RHG-H80                         | A4SW                                   | GE Aviation H80<br>800 HP @ 2080 RPM                  | HC-B4TW-3<br>T10282N             | 103" to 102"          | C-3425-5P<br>C-3425<br>C-3425-P | <b>3104</b>          |
| <b>TIGER</b><br>AA-5A, -5B CHEETA/TIGER                              | SA5452NM<br>FLETCHAIR                  | LYCOMING IO-360-C1C6<br>200 HP @ 2700 RPM             | HC-C2YK-1BF<br>F7666A-2          | 74"                   |                                 | <b>1974</b>          |
| <b>TRANSAVIA</b><br>PL 12/400 AIRTRUK                                | Unknown                                | LYCOMING IO-720-D1BD<br>400 HP @ 2650 RPM             | HC-C3YR-1RF<br>F8475R            | 86"                   | A-2295-1                        | <b>1010</b>          |
| <b>TRANSAVIA</b><br>PL-12/T-300                                      | A17NM                                  | LYCOMING IO-540-K1A5, -K1B5<br>300 HP @ 2700 RPM      | HC-C3YR-1RF<br>F8468A-2R         | 84" TO 83"            | A-2295-1                        | <b>1008</b>          |
| <b>TRANSAVIA</b><br>AIRTRUK  | Unknown                                | LYCOMING IO-540-K1A5<br>300 HP @ 2700 RPM             | HC-C2YR-1BF<br>F8475+2           | 86"                   |                                 | <b>1009</b>          |
| <b>TRI-R TECHNOLOGIES</b><br>TR-4 KIS CRUISER                        | Experimental                           | CONTINENTAL IO-360-ES<br>210 HP @ 2800 RPM            | BHC-C2YF-1BF<br>F7694-2          | 74" TO 73"            | A-2295-P                        | <b>1556</b>          |
| <b>Turkish Aerospace Industries, Inc</b><br>TT32 H <sup>o</sup> rku? | EASA.IM.A.500                          | Pratt & Whitney PT6A-68T<br>1600 HP @ 2000 RPM        | HC-B5MA-2A<br>M9128NSAK*1        | 94"                   | 104478P<br>104478               | <b>3200</b>          |



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|---|--|---|--|-----------------------|--------------------|----------------------|
| TWIN COMMANDER<br>see AERO COMMANDER                  |  | HP @ RPM  |  |                       |                    | 1015                 |
| TWIN COMMANDER<br>500                                 | SA01792SE<br>HARTZELL PROPELLER INC      | LYCOMING O-540-A4A5<br>250 HP @ 2575 RPM  | HC-C3YR-2UF<br>FC8468-6R                                       | 80                    | C-3258<br>C-3258-P | 2734                 |
| TWIN COMMANDER<br>500 SERIES AERO COMMANDER           | STC-SA257CE<br>CONSOLIDATED FUEL SYSTEMS | LYCOMING IO-540-A1A5<br>250 HP @ 2575 RPM   | HC-A3VK-2  | 76.6"                 | C-2513-2           | 2057                 |
| TWIN COMMANDER<br>500 SERIES AERO COMMANDER           | STC-SA257CE<br>CONSOLIDATED FUEL SYSTEMS | LYCOMING IO-540-A1A5<br>250 HP @ 2575 RPM   | HC-A3MVK-2<br>MV7636N*1  | 76.6"                 | C-2513-2           | 14                   |
| TWIN COMMANDER<br>560 AERO COMMANDER                  | STC-SA2-89<br>SIGNATURE FLIGHT SUPPORT   | LYCOMING GO-480-C1D6<br>295 HP @ 2182 RPM   | HC-A3MV20-2<br>MV8833N*1<br>MV8833N-2                          | 86.4"                 | 835-10S            | 27                   |
| TWIN COMMANDER<br>690A, 690B, 690C TURBO<br>COMMANDER | STC-SA3861NM<br>AERO AIR                 | HONEYWELL TPE331-5-254K, TPE331-<br>10T-511K, -512K, -513K, -515K, -516K<br>715 HP @ 1591 RPM | HC-B3TN-5FL, -5NL<br>LT10876ANSB-2Q<br>LT10876NSB-2Q           | 106.5" NO CUT OFF     | 836-57P<br>D-7330P | 38                   |
| UNIVAIR (ERCOUPE, MOONEY)<br>415C, CD                 | A718                                     | CONTINENTAL A-65-8; C-75-12, C-85-12<br>65 HP @ 2300 RPM                                      | HA-12UO<br>7214<br>7214-2<br>7214-2M<br>7214M<br>7414<br>7414M | 74" TO 70"            |                    | 1016                 |
| UNIVERSAL<br>T-25 MILITARY TRAINER                    | Experimental                             | LYCOMING IO-540-K1A5<br>300 HP @ 2700 RPM   | HC-C2YK-4BF<br>FC8475A-2                                       | 82"                   | C-2513-5           | 1017                 |
| US-LTA<br>138S (airship)                              | AS2NM                                    | LYCOMING IO-540-K2A5<br>300 HP @ 2700 RPM   | HC-E3YR-7LF<br>FLC8468G-8Q                                     | 78.75"                |                    | 1019                 |

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|---|--|--|---|-----------------------|--|----------------------|
| <b>UTVA</b><br>LASTA                              | Unknown                                | LYCOMING AEIO-540-L1A5D<br>300 HP @ 2700 RPM             | HC-C2YR-4CF<br>FC8475-6*3               | 78"                   | 835-42                                     | 1025                 |
| <b>UTVA</b><br>66                                 | Unknown                                | LYCOMING GSO-480-B1J6<br>340 HP @ 2182 RPM               | HC-B3Z20-1<br>10151C-5<br>10151CN-5     | 96"                   |  | 1020                 |
| <b>UTVA</b><br>75-11AG                            | Unknown                                | LYCOMING AEIO-540-L1B5D<br>300 HP @ 2700 RPM             | HC-C3YR-1RF<br>F8468-8R                 | 78"                   | A-4209                                     | 1023                 |
| <b>UTVA</b><br>75                                 | Unknown                                | LYCOMING IO-360-B1F<br>180 HP @ 2700 RPM                 | HC-C2YK-1BF<br>F7666-2<br>F7666A-2      | 74"                   |  | 1022                 |
| <b>UTVA</b><br>75AG                               | Unknown                                | LYCOMING AEIO-540-L1B5D<br>300 HP @ 2700 RPM             | HC-C2YR-1BF<br>F8475D-4                 | 80"                   | A-2295                                     | 1024                 |
| <b>UTVA</b><br>95 LASTA                           | unknown                                | LYCOMING AEIO-580-B1A<br>315 HP @ 2700 RPM               | HC-C2YR-4CF<br>FC8475-8                 | 76"                   |  | 2866                 |
| <b>VALMET</b><br>L-70 VINKA                       | Unknown                                | LYCOMING IO-360-A1B6; AEIO-360-A1B6<br>200 HP @ 2700 RPM | HC-C2YR-4F<br>FC7666A-2                 | 74"                   | C-2513-5                                   | 1026                 |
| <b>VALMET</b><br>L-90TP REDIGO                    | Unknown                                | ALLISON 250-B17D<br>420 HP @ 2030 RPM                    | HC-B3TF-7A<br>T10173-15<br>T10173N-15   | 85.6"                 | A-3640                                     | 1028                 |
| <b>Van's</b><br>RV-(6,7,8,14)(A) RV-(6,7,8,14)(A) | Experimental                           | Lycoming (I)O-360/390-( )<br>180 HP @ 2700 RPM           | 3C1-R430A1X<br>76CS03-2X2<br>76CS03-4X2 | 74", 72"              | 107974F2<br>107974F1<br>107974<br>107186PX | 3794                 |
| <b>VAN'S</b><br>RV-10 RV-10                       | Experimental                           | Lycoming (I)O-540-( )4( )5<br>260 HP @ 2700 RPM          | HC-C3Y1R-1N(X)<br>N7605C                | 78"                   | C-4582-P<br>C-4582                         | 3151                 |

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|---|--|---|--|-----------------------|-------------------|----------------------|
| <b>VAN'S</b><br>RV-10 RV-10                                 | Experimental                           | Lycoming (I)O-540-( )4( )5<br>260 HP @ 2700 RPM     | HC-G3Y1R-1NX<br>N7605CX  | 78"                   | D-7709P<br>D-7709 | <b>3784</b>          |
| <b>VANS AIRCRAFT</b><br>RV-4, 6, 7, 8, 14                   | Experimental                           | LYCOMING (Y)IO-360-M1B<br>180 HP @ 2700 RPM         | HC-C2YR-1BFP<br>F7497<br>F7497*4<br>F7497-2<br>F7497-2*1<br>F7497-2*2          | 74" TO 72"            | C-3533-1P         | <b>3313</b>          |
| <b>VANS AIRCRAFT</b><br>RV-4, 6, 7, 8, 14 RV-4, 6, 7, 8, 14 | Experimental                           | LYCOMING IO-360 & YIO-390-A3B6<br>200 HP @ 2700 RPM | HC-C2YR-1BFPX<br>F7497<br>F7497*6<br>F7497*6X<br>F7497-2<br>F7497-2X<br>F7497X | 74" TO 72"            | C-3533-1P         | <b>2604</b>          |
| <b>VAN'S AIRCRAFT</b><br>RV-4, -6, -7                       | Experimental                           | Lycoming (I)O-360 Series<br>180 HP @ 2700 RPM       | HC-C2YR-1NX<br>N7605-4<br>N7605-4X   | 72"                   |                   | <b>2894</b>          |
| <b>VAN'S AIRCRAFT</b><br>RV-4, 6, 7, 9 RV-4, 6, 7, 9        | Experimental                           | Lycoming (I)O-360<br>200 HP @ 2700 RPM              | HC-C2YR-1NX<br>N7605-2X<br>N7605X  | 76-74"                |                   | <b>2848</b>          |
| <b>VAN'S AIRCRAFT</b><br>RV-4, -8                           | EXPERIMENTAL                           | LYCOMING IO-360 Series<br>200 HP @ 2700 RPM         | HC-C2YR-1NWX<br>N7605W-2X<br>N7605WX   | 76"-74"               |                   | <b>3231</b>          |
| <b>VAN'S AIRCRAFT</b><br>RV-4, -8                           | Experimental                           | LYCOMING IO-360 Series<br>180 HP @ 2700 RPM         | HC-G2YR-1NWX<br>N7605W-2X<br>N7605WX   | 76"-72"               | D-4798P           | <b>3263</b>          |

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|--|--|---|---|-----------------------|-----------------|----------------------|
| <b>VAN'S AIRCRAFT</b><br>RV-4,-6,-7,-8,-9 RV-4,-6,-7,-8,-9 | Experimental<br>JAMES AIRCRAFT         | LYCOMING IO-390 & IO-360<br>210 HP @ 2700 RPM           | HC-M2YR-1BFPX<br>F7497X                                   | 74" to 72"            |                 | <b>2569</b>          |
| <b>VAN'S AIRCRAFT</b><br>RV-10 RV-10                       | Experimental                           | LYCOMING IO-540-D4A5<br>260 HP @ 2700 RPM               | HC-C2YR-1BFPX<br>F8068D<br>F8068DX<br>F8068DX*3<br>F8068X | 80                    |                 | <b>2049</b>          |
| <b>VAN'S AIRCRAFT</b><br>RV-10                             | Experimental                           | Lycoming (I)O-540-( )4( )5<br>260 HP @ 2700 RPM         | HC-C3YR-1N<br>N7605                                       | 78"                   |                 | <b>2842</b>          |
| <b>VAN'S AIRCRAFT</b><br>RV-10                             | Experimental                           | Lycoming (I)O-540-( )4( )5<br>260 HP @ 2700 RPM         | HC-C3YR-1N<br>N7605C                                      | 78"                   |                 | <b>3124</b>          |
| <b>VAN'S AIRCRAFT</b><br>RV-4,-6,-7,-8,-9 RV-4,-6,-7,-8,-9 | Experimental                           | LYCOMING (I)O-360-( )<br>180 HP @ 2700 RPM              | HC-M2YR-1BFPX<br>F7497-2X                                 | 72"                   |                 | <b>3796</b>          |
| <b>VAN'S AIRCRAFT</b><br>RV-3, 4, 6/6A, 7/7A, 8/8A, 9/9A   | Experimental                           | LYCOMING O-320-(A,B,C,D,E)(1,3)( )<br>160 HP @ 2700 RPM | HC-C2YL-1BFX<br>F7663-4<br>F7663-4X                       | 72"-70"               |                 | <b>1173</b>          |
| <b>VAN'S AIRCRAFT</b><br>RV-4                              | Experimental                           | LYCOMING O-360 SERIES<br>180 HP @ 2700 RPM              | HC-C2YR-1BF<br>F7068-2                                    | 68.0" TO 67.0"        |                 | <b>1513</b>          |
| <b>VAN'S AIRCRAFT</b><br>RV-4                              | Experimental                           | LYCOMING O-320-(A,B,C,D,E)(1,3)( )<br>160 HP @ 2700 RPM | HC-F2YL-1FX<br>F7663-4<br>F7663-4X                        | 72.0" TO 70.0"        |                 | <b>1031</b>          |
| <b>VAN'S AIRCRAFT</b><br>RV-4                              | Experimental                           | LYCOMING O-360-A1A<br>180 HP @ 2700 RPM                 | HC-F2YR-1F<br>F7666A-4                                    | 72" NO CUT OFF        |                 | <b>1376</b>          |
| <b>VAN'S AIRCRAFT</b><br>RV-4                              | Experimental                           | LYCOMING O-360 SERIES<br>180 HP @ 2700 RPM              | HC-F2YR-1F<br>F7068-2                                     | 68.0" TO 67.0"        |                 | <b>1399</b>          |

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|------------------------------------|--|---|--|-----------------------|-------------------|----------------------|
| VAN'S AIRCRAFT<br>RV-4, -6, -7, -8 | Experimental                           | LYCOMING (I)O(F)-360-A1A<br>180 HP @ 2700 RPM | HC-C2YR-1BF<br>F7496<br>F7496*1<br>F7496-2<br>F7496-2*1  | 74" TO 72"            |                   | 1905                 |
| VAN'S AIRCRAFT<br>RV-4,-6,-7,-8    | Experimental                           | LYCOMING (I)O(F)-360-A1A<br>180 HP @ 2700 RPM | HC-C2YR-1BFP<br>F7496<br>F7496*1<br>F7496-2<br>F7496-2*1 | 74" TO 72"            | A-2295-P          | 2330                 |
| VAN'S AIRCRAFT<br>RV-4,-6,-7,-8,-9 | Experimental<br>JAMES AIRCRAFT         | LYCOMING (I)O(F)-360-A1A<br>180 HP @ 2700 RPM | HC-M2YR-1BFP<br>F7496<br>F7496*1<br>F7496-2<br>F7496-2*1 | 74"                   |                   | 2536                 |
| VAN'S AIRCRAFT<br>RV-6             | Experimental                           | LYCOMING IO-360 SERIES<br>200 HP @ 2700 RPM   | HC-C2YR-4CF<br>FC7666A-2                                 | 74"                   | 836-60<br>836-60P | 1033                 |
| VAN'S AIRCRAFT<br>RV-6             | Experimental                           | LYCOMING (I)O-360-A1A<br>200 HP @ 2700 RPM    | HC-C2YK-1BFP<br>F7666A-2<br>F7666A-4                     | 74" TO 72"            |                   | 2331                 |
| VAN'S AIRCRAFT<br>RV-6             | Experimental                           | LYCOMING (I)O-320<br>160 HP @ 2700 RPM        | HC-F2YL-1F<br>F7663D-4<br>F7663D-6Q                      | 72"                   |                   | 1363                 |
| VAN'S AIRCRAFT<br>RV-6             | Experimental                           | LYCOMING O-360-A1A<br>180 HP @ 2700 RPM       | HC-F2YR-1F<br>F7666A-4                                   | 72" NO CUT OFF        |                   | 1375                 |
| VAN'S AIRCRAFT<br>RV-6             | Experimental                           | LYCOMING O-360 SERIES<br>180 HP @ 2700 RPM    | HC-F2YR-1F<br>F7666A-2                                   | 74"                   |                   | 1733                 |

| <u>Model/Trade Name:</u>                                    | <u>Aircraft T.C./STC No/ Modifier:</u> | <u>Engine/ Power:</u>                               | <u>Propeller/Blade Model(s):</u>                               | <u>Prop Diameter:</u> | <u>Spinner:</u>   | <u>IDS Ref. No.:</u> |
|---|--|---|--|-----------------------|-------------------|----------------------|
| <b>VAN'S AIRCRAFT</b><br>RV-6                               | Experimental                           | LYCOMING O-360 SERIES<br>180 HP @ 2700 RPM          | HC-M2YR-1BF<br>F7666A-2  | 72"                   |                   | 1408                 |
| <b>VAN'S AIRCRAFT</b><br>RV-6                               | Experimental                           | LYCOMING (I)O-360-()<br>200 HP @ 2700 RPM           | HC-C2YK-1BFX<br>F7666A-2<br>F7666A-2X<br>F7666A-4<br>F7666A-4X | 74" TO 72"            |                   | 1032                 |
| <b>VAN'S AIRCRAFT</b><br>RV-6, -8                           | Experimental                           | FRANKLIN 6A-350-C1, -C2<br>215 HP @ 2800 RPM        | HC-C2YF-1BF<br>F8459-4<br>F8459A-4                             | 80"                   |                   | 1537                 |
| <b>VAN'S AIRCRAFT</b><br>RV-8                               | Experimental                           | LYCOMING IO-360-B SERIES<br>180 HP @ 2700 RPM       | HC-C2YK-1BF<br>F7666A  | 76"                   |                   | 1544                 |
| <b>VAN'S AIRCRAFT</b><br>RV-8                               | Experimental                           | LYCOMING IO-360-A1B6<br>200 HP @ 2700 RPM           | HC-M2YR-1BFX<br>F7666A<br>F7666AX                              | 76" to 73"            |                   | 1540                 |
| <b>VIKING AIR, LTD.</b><br>TRIDENT TR-1                     | A19EA                                  | CONTINENTAL 6-285-C4<br>285 HP @ 2000 RPM           | HC-H3YF-3LF<br>FLC9684-12                                      | 84.0" TO 83.0"        | D-4247            | 1012                 |
| <b>VULCANAIR</b><br>V1.0                                    | A00075CE                               | Lycoming IO-360-M1A<br>180 HP @ 2700 RPM            | HC-C2YR-1BFP<br>F7497*1  | 74" (no reduction)    | 103585            | 3278                 |
| <b>VULCANAIR (PARTENAVIA)</b><br>P.64B Oscar 180, Oscar 200 | unknown                                | Lycoming O-360-A1A, IO-360-A1B<br>180 HP @ 2700 RPM | HC-C2YK-1BF<br>F7666A-2  | 74-72                 | 835-33P<br>835-33 | 2828                 |
| <b>VULCANAIR (PARTENAVIA)</b><br>P68, P68B, P68C OBSERVER   | A31EU                                  | LYCOMING IO-360-A1B, -A1B6<br>200 HP @ 2700 RPM     | HC-C2YK-2CUF<br>FC7666A-4*1<br>FC7666AB-4*1                    | 72" NO CUT OFF        | 836-29            | 709                  |
| <b>VULCANAIR (PARTENAVIA)</b><br>P68C-TC OBSERVER           | A31EU                                  | LYCOMING T(I)O-360-C1A6D<br>210 HP @ 2575 RPM       | HC-C2YR-2CUF<br>FC7666A*2                                      |                       | 836-29<br>836-29P | 1309                 |

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|--|--|--|--|-----------------------|-------------------|----------------------|
| <b>VULCANAIR (PARTENAVIA)</b><br>P.68, P.68B, P.68C, P.68R<br>OBSERVER, OBSERVER 2         | EASA.A.385                             | LYCOMING IO-360-A1B, -A1B6<br>200 HP @ 2700 RPM              | HC-C2YK-2CUF<br>FC7666A-4*1<br>FC7666A-4*2 | 72" NO CUT OFF        | 836-29P<br>836-29 | <b>2881</b>          |
| <b>VULCANAIR (PARTENAVIA)</b><br>P68C-TC, P68TC OBSERVER                                   | A31EU                                  | LYCOMING TIO-360-C1A6D, TO-360-C1A6D<br>210 HP @ 2575 RPM    | HC-C2YK-2CUF<br>FC7666A                    | 76" TO 75"            | 836-29            | <b>710</b>           |
| <b>VULCANAIR (PARTENAVIA)</b><br>AP68TP-300, AP68TP-600<br>SPARTACUS (-300), VIATOR (-600) | EASA.A.385                             | ROLLS-ROYCE (formerly Allison) 250-B17C<br>328 HP @ 2030 RPM | HC-B3TF-7A<br>T10173F-21R<br>T10173FN-21R  | 80" TO 78"            | 835-39P<br>835-39 | <b>711</b>           |
| <b>WALLAROO</b><br>WALLAROO 605  | Unknown                                | PRATT & WHITNEY PT6A-27<br>620 HP @ 2200 RPM                 | HC-B3TN-3D<br>T10282<br>T10282N            | 102.0"                |                   | <b>1039</b>          |
| <b>WASSMER</b><br>SUPER 421  | Unknown                                | LYCOMING IO-540-C4B5<br>250 HP @ 2575 RPM                    | HC-C2YK-1BF<br>F8477-4                     | 80"                   | 835-33            | <b>1040</b>          |
| <b>WASSMER</b><br>CE.43 CERVA CE.43 GUEPARD  | Unknown                                | LYCOMING IO-540<br>250 HP @ 2575 RPM                         | HC-C2YK-1BF<br>F8477-7                     | 77" TO 76"            |                   | <b>1041</b>          |
| <b>WASSMER</b><br>52 EUROPA  | 126 (FRANCE)                           | LYCOMING O-320-D<br>160 HP @ 2700 RPM                        | HC-C2YL-1BF<br>F7663A-4                    | 72                    |                   | <b>2487</b>          |
| <b>WASSMER (CERVA)</b><br>CE43 CHEETAH   | 137 (France)                           | LYCOMING IO-540-C4B5<br>250 HP @ 2575 RPM                    | HC-C2YK-1BF<br>F8477-4                     | 80-77                 |                   | <b>2715</b>          |
| <b>WDL FLUGDIENST</b><br>AIRSHIP   | Unknown                                | CONTINENTAL IO-360-CB<br>210 HP @ 2800 RPM                   | BHC-92WF-3G<br>W8447-6R<br>W8447N-6R       |                       |                   | <b>1042</b>          |

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|------------------------------------|---|--|--|-----------------------|--|----------------------|
| WEATHERLY<br>201B, C               | STC-SA73RM<br>RON'S AIR SERVICE                     | PRATT & WHITNEY R-985<br>450 HP @ 2300 RPM                       | HC-B3R30-1<br>R10152-5.5<br>R10152N-5.5<br>R10160-6<br>R10160N-6 | 95, 95.5"             | 836-32SPR  | 1044                 |
| WEATHERLY<br>201C                  | A10WE   | PRATT & WHITNEY R985-AN1, AN-3,<br>AN-1-14B<br>450 HP @ 2300 RPM | HC-B3R30-4(B)<br>R10152-5.5<br>R10152N-5.5                       | 95.5" NO CUT OFF      | 836-32PR   | 1169                 |
| WEATHERLY<br>201C                  | A10WE   | PRATT & WHITNEY R985-AN1, AN-3,<br>AN-1-14B<br>450 HP @ 2300 RPM | HC-B3R30-4<br>R10160-6<br>R10160N-6                              | 96.0" TO 95.0"        | 836-32PR   | 1365                 |
| WEATHERLY<br>620A, 620B            | A26WE   | PRATT & WHITNEY R985-AN-1, AN-3,<br>AN-14B<br>450 HP @ 2300 RPM  | HC-B3R30-4B<br>R10152-5.5<br>R10152N-5.5                         | 95.5" NO CUT OFF      | 836-32SPR<br>836-32PR<br>836-32SPRB<br>836-32PRB | 1170                 |
| WEATHERLY<br>620TP                 | A26WE   | PRATT & WHITNEY PT6A-11AG<br>500 HP @ 2200 RPM                   | HC-B3TN-3C<br>T10282-2<br>T10282-6<br>T10282N-2<br>T10282N-6     | 96.0" TO 92.0"        | D-3434-6   | 1046                 |
| WHEELER TECHNOLOGY INC.<br>EXPRESS | Experimental<br>EXPERIMENTAL AIRCRAFT<br>TECHNOLOGY | LYCOMING O-360<br>180 HP @ 2700 RPM                              | HC-C2YK-1BF<br>F7666A<br>F7666A-2<br>F7666A-4                    | 72" NO CUT OFF        |  | 1364                 |
| WHEELER TECHNOLOGY INC.<br>EXPRESS | Experimental  | LYCOMING IO-540-C4B5<br>250 HP @ 2575 RPM                        | HC-F2YR-1F<br>F8465-8R   | 76"                   | A-2298-2P  | 1047                 |



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|---|--|---|-------------------------------------|-----------------------|-----------------|----------------------|
| WHEELER TECHNOLOGY INC.<br>EXPRESS                  | Experimental                               | LYCOMING IO-540-D4A5<br>260 HP @ 2700 RPM     | HC-F3YR-1RF<br>F7382                | 75"                   | C-3575-1P       | 1187                 |
| <b>WING AIRCRAFT</b><br>D-1 DERRINGER               | A9WE                                       | LYCOMING IO-320-B1C, C1A<br>160 HP @ 2700 RPM | HC-C2YL-2RB<br>F8459-18             | 66" TO 64"            | 835-21P         | 1051                 |
| <b>WOLF AIRCRAFT</b><br>WOLFPITTS PRO WOLFPITTS PRO | EXPERIMENTAL                               | LYCOMING AEIO-580-S<br>320 HP @ 2700 RPM      | HC-C3YR-4AX<br>C7690EX              | 78"                   | D-7409          | 3095                 |
| <b>XIAN</b><br>LE500                                | Unknown                                    | LYCOMING IO-540-V4A5<br>260 HP @ 2700 RPM     | HC-C2YK-1BF<br>F8477-4              | 80" TO 78"            | A-2295          | 1867                 |
| <b>ZIVKO AERONAUTICS</b><br>EDGE 540                | Experimental                               | LYCOMING AEIO-540<br>300 HP @ 2700 RPM        | HC-C3YR-1A<br>7690E                 | 78.0" NO CUT OFF      | D-6936-P        | 1367                 |
| <b>ZIVKO AERONAUTICS INC.</b><br>EDGE 540           | Experimental                               | LYCOMING AEIO-540<br>300 HP @ 2700 RPM        | HC-C3YR-4AX<br>C7690EX<br>C7690EX*1 | 78" NO CUT OFF        |                 | 2493                 |
| <b>ZLIN</b><br>526L                                 | A30EU                                      | LYCOMING AIO-360-B1B<br>200 HP @ 2700 RPM     | HC-C2YK-4F<br>FC7666A-2             | 74" TO 72"            | C-2513-5        | 667                  |

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SPINNER MOUNTING KITS - CONTENTS

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## 1. General

### A. General Information

- (1) The Spinner Mounting Kit chapter contains the parts list for each Hartzell Propeller Inc. spinner mounting kit, and Illustrations of the standard hardware configurations.

### B. Parts List

#### (1) Description of Columns

- (a) Item Number - Reference number given to that part in a specified illustration.
- (b) Part Number - Hartzell Propeller Inc. identification number for the part.
- (c) Description - Hartzell Propeller Inc. description of the part.
- (d) Units Per Assembly (UPA) - Designates the total quantity of an item required for the kit.
- (e) Overhaul (O/H) - Designates the parts to be replaced at overhaul.  
A "Y" identifies the parts that must be replaced at overhaul.

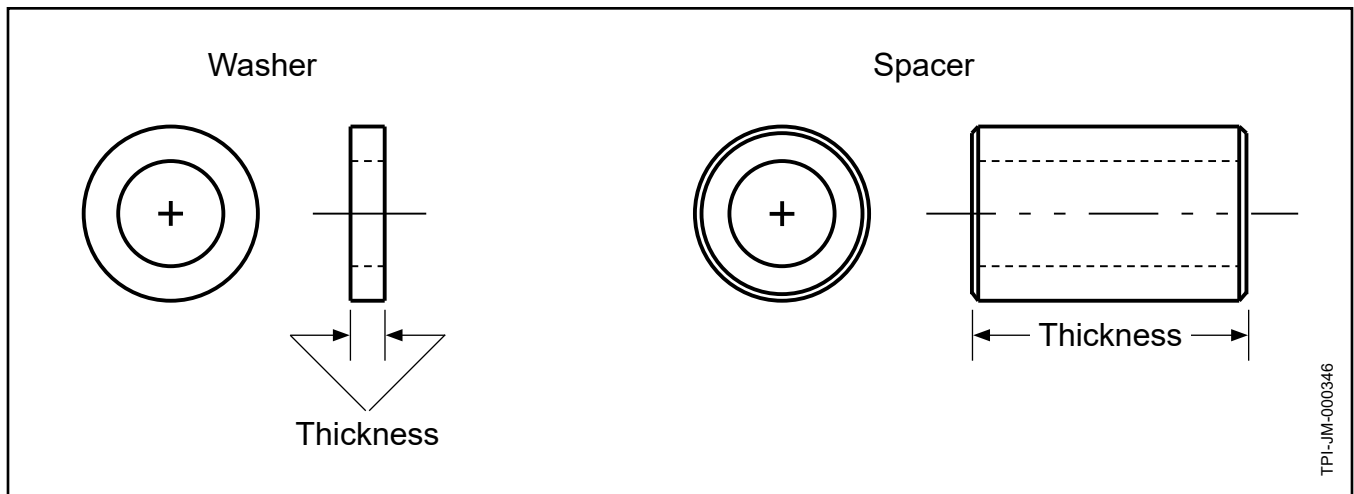
### C. Hardware Configuration

- (1) Shows the standard hardware stack-up for the spinner mounting kit.

- (a) To get spacing between the spinner assembly and the aircraft cowling, spinner mounting kit hardware stack-ups can be modified in accordance with the applicable Hartzell Propeller Inc. Owner's manual.

- 1 Table 1, "Spacer/Washer Thickness" in this chapter provides a list of spacer/washer part numbers and specifies the thickness of each item.

## 2. Spacer/Washer Thickness



TPI-JM-000346

| Part Number | Description | Thickness             |
|-------------|-------------|-----------------------|
| A-2246      | Spacer      | 0.375 inch (9.52 mm)  |
| A-2246-1    | Spacer      | 0.672 inch (17.06 mm) |
| A-2246-3    | Spacer      | 0.315 inch (8.00 mm)  |
| A-2246-4    | Spacer      | 0.250 inch (6.35 mm)  |
| A-2246-5    | Spacer      | 0.438 inch (11.12 mm) |
| A-2246-6    | Spacer      | 0.270 inch (6.85 mm)  |
| A-2246-7    | Spacer      | 0.300 inch (7.62 mm)  |
| A-2246-8    | Spacer      | 0.563 inch (14.30 mm) |
| A-2246-9    | Spacer      | 0.195 inch (4.95 mm)  |
| A-2246-10   | Spacer      | 0.818 inch (20.77 mm) |
| A-2246-11   | Spacer      | 1.000 inch (25.40 mm) |
| A-2246-13   | Spacer      | 1.125 inch (28.57 mm) |
| B-3834-0632 | Washer      | 0.031 inch (0.78 mm)  |
| B-3834-0663 | Washer      | 0.063 inch (1.60 mm)  |
| B-3834-0832 | Washer      | 0.031 inch (0.78 mm)  |
| B-3851-0432 | Washer      | 0.031 inch (0.78 mm)  |
| B-3851-0463 | Washer      | 0.062 inch (1.57 mm)  |
| B-7423      | Washer      | 0.084 inch (2.13 mm)  |

**Spacer/Washer Thickness  
Table 1**

### 3. INDEX: Spinner Mounting Kits

| (Click to view parts list)<br><u>Spinner Mounting Kit</u> | <u>Spinner Bulkhead Material</u> | (Click to view illustration)<br><u>Hardware Configuration</u> |
|---|----------------------------------|---|
| <a href="#">A-2476-2</a>                                  | Metal                            | <a href="#">1-A</a>   |
| <a href="#">A-2476-3</a>                                  | Metal                            | <a href="#">1-A</a>   |
| <a href="#">A-2476-4</a>                                  | Metal                            | <a href="#">1-A</a>   |
| <a href="#">A-2476-5</a>                                  | Metal                            | <a href="#">1-A</a>   |
| <a href="#">A-2476-6</a>                                  | Metal                            | <a href="#">1-A</a>   |
| <a href="#">A-2476-7</a>                                  | Metal                            | <a href="#">1-A</a>   |
| <a href="#">A-2476-8</a>                                  | Metal                            | <a href="#">1-A</a>   |
| <a href="#">A-2476-9</a>                                  | Metal                            | <a href="#">1-A</a>   |
| <a href="#">A-2476-10</a>                                 | Metal                            | <a href="#">1-A</a>   |
| <a href="#">A-2476-11</a>                                 | Metal                            | <a href="#">1-A</a>   |
| <a href="#">A-2476-13</a>                                 | Metal                            | <a href="#">1-H</a>   |
| <a href="#">A-2476-14</a>                                 | Metal                            | <a href="#">1-A</a>   |
| <a href="#">A-2476-16</a>                                 | Metal                            | <a href="#">1-B</a>   |
| <a href="#">A-2476-17</a>                                 | Metal                            | <a href="#">1-A</a>   |
| <a href="#">A-2476-18</a>                                 | Metal                            | <a href="#">1-C</a>   |
| <a href="#">A-2476-19</a>                                 | Metal                            | <a href="#">1-A</a>   |
| <a href="#">A-2476-20</a>                                 | Metal                            | <a href="#">1-A</a>   |
| <a href="#">A-2476-23</a>                                 | Metal                            | <a href="#">1-A</a>   |
| <a href="#">A-2476-25</a>                                 | Metal                            | <a href="#">1-A</a>   |
| <a href="#">A-2476-26</a>                                 | Metal                            | Replaced by A-2476-7  |
| <a href="#">A-2476-27</a>                                 | Metal                            | <a href="#">1-A</a>   |
| <a href="#">A-2476-29</a>                                 | Metal                            | <a href="#">1-A</a>   |
| <a href="#">A-2476-30</a>                                 | Metal                            | <a href="#">1-A</a>   |
| <a href="#">A-2476-31</a>                                 | Metal                            | <a href="#">1-A</a>   |
| <a href="#">A-2476-32</a>                                 | Metal                            | <a href="#">1-A</a>   |
| <a href="#">A-2476-34</a>                                 | Composite                        | <a href="#">2-A</a>   |
| <a href="#">A-2476-35</a>                                 | Metal                            | <a href="#">1-A</a>   |
| <a href="#">A-2476-36</a>                                 | Metal                            | <a href="#">1-A</a>   |
| <a href="#">A-2476-38</a>                                 | Metal                            | <a href="#">1-D</a>   |
| <a href="#">A-2476-39</a>                                 | Metal                            | <a href="#">1-A</a>   |
| <a href="#">A-2476-40</a>                                 | Metal                            | <a href="#">1-E</a>   |
| <a href="#">A-2476-41</a>                                 | Metal                            | <a href="#">1-A</a>   |
| <a href="#">A-2476-42</a>                                 | Metal                            | <a href="#">1-A</a>   |
| <a href="#">A-2476-43</a>                                 | Metal                            | <a href="#">1-A</a>   |
| <a href="#">A-2476-44</a>                                 | Metal                            | <a href="#">1-A</a>   |
| <a href="#">A-2476-45</a>                                 | Metal                            | <a href="#">1-F</a>   |
| <a href="#">A-2476-46</a>                                 | Metal                            | <a href="#">1-E</a>   |
| <a href="#">A-2476-47</a>                                 | Metal                            | <a href="#">1-A</a>   |
| <a href="#">A-2476-48</a>                                 | Metal                            | <a href="#">1-A</a>   |
| <a href="#">A-2476-51</a>                                 | Metal                            | <a href="#">1-A</a>   |
| <a href="#">A-2476-52</a>                                 | Metal                            | <a href="#">1-A</a>   |
| <a href="#">A-2476-53</a>                                 | Composite                        | <a href="#">2-A</a>   |
| <a href="#">A-2476-55</a>                                 | Metal                            | <a href="#">1-A</a>   |

(Click to view parts list)

Spinner Mounting KitSpinner Bulkhead Material

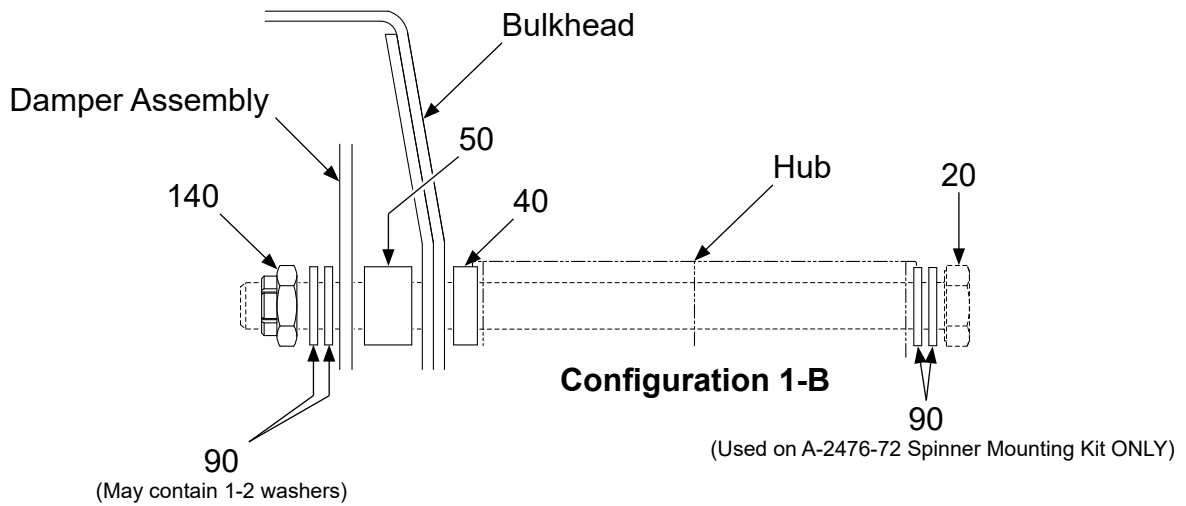
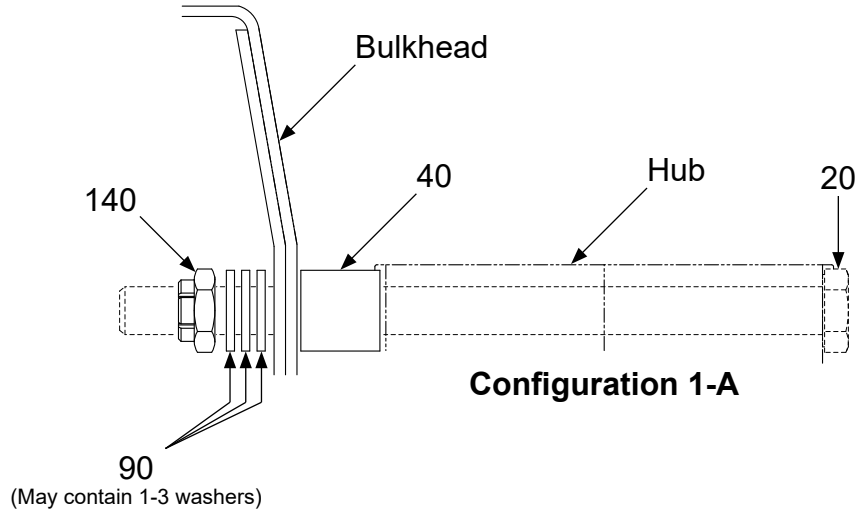
(Click to view illustration)

Hardware Configuration

|                           |           |                     |
|---------------------------|-----------|---------------------|
| <a href="#">A-2476-56</a> | Composite | <a href="#">2-C</a> |
| <a href="#">A-2476-59</a> | Composite | <a href="#">2-D</a> |
| <a href="#">A-2476-60</a> | Composite | <a href="#">2-B</a> |
| <a href="#">A-2476-63</a> | Metal     | <a href="#">1-A</a> |
| <a href="#">A-2476-64</a> | Metal     | <a href="#">1-A</a> |
| <a href="#">A-2476-66</a> | Metal     | <a href="#">1-A</a> |
| <a href="#">A-2476-67</a> | Composite | <a href="#">2-B</a> |
| <a href="#">A-2476-68</a> | Composite | <a href="#">2-B</a> |
| <a href="#">A-2476-70</a> | Metal     | <a href="#">1-G</a> |
| <a href="#">A-2476-71</a> | Metal     | <a href="#">1-A</a> |
| <a href="#">A-2476-72</a> | Metal     | <a href="#">1-B</a> |
| <a href="#">A-3491</a>    | Metal     | <a href="#">1-J</a> |
| <a href="#">A-3648</a>    | Metal     | <a href="#">1-J</a> |

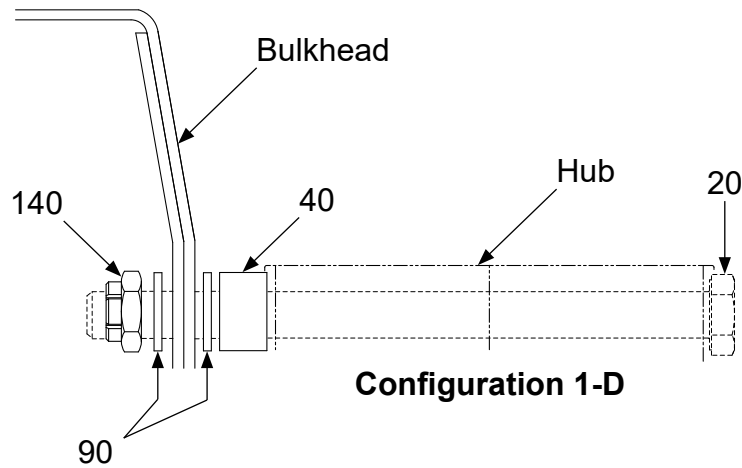
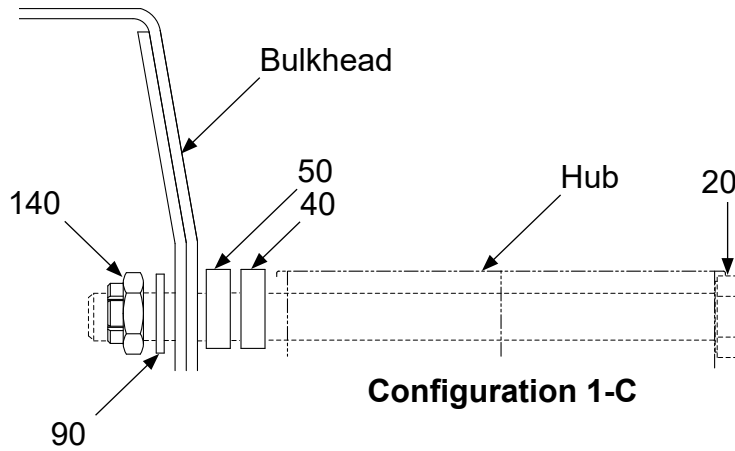


**Spinner Mounting Kits  
for Metal Spinner Bulkheads**



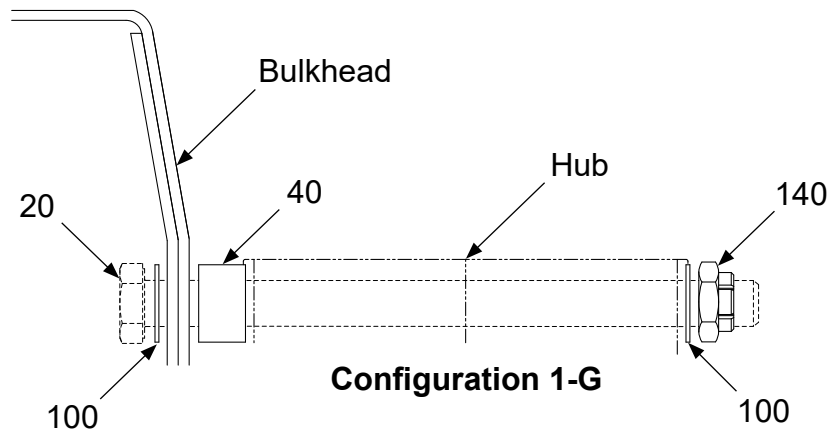
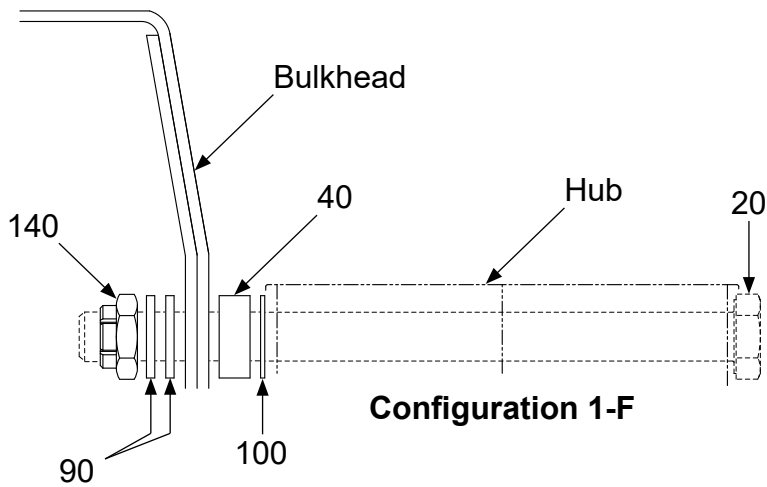
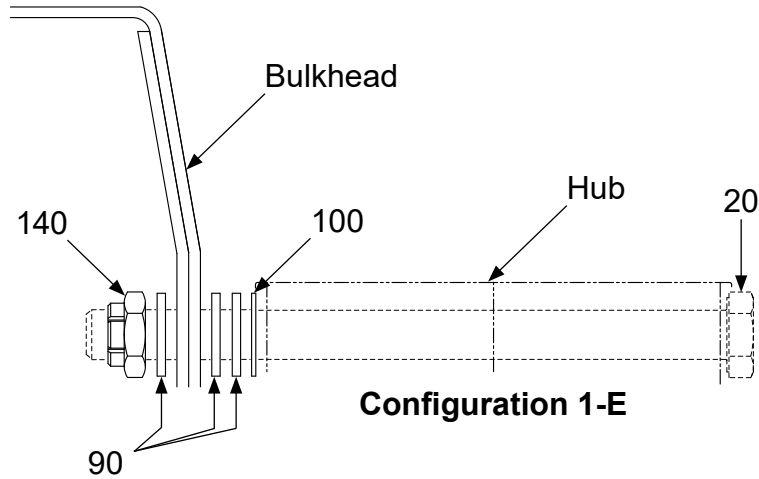
TPI-JM-000333  
TPI-JM-000334

### Spinner Mounting Kit Hardware: Metal Bulkhead Configurations 1-A and 1-B



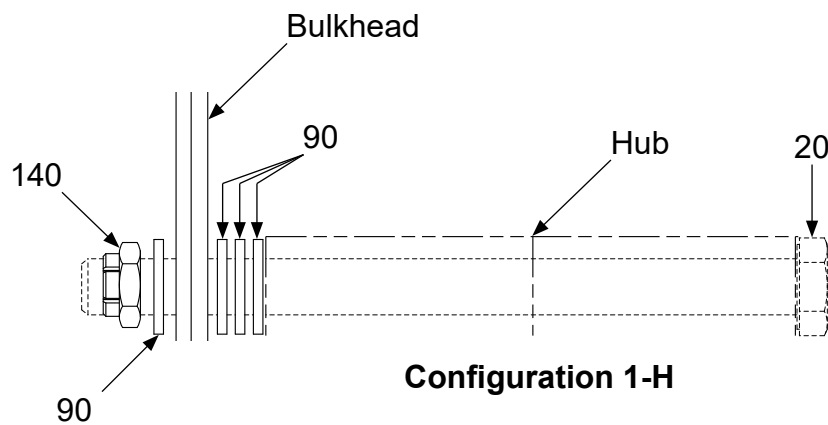
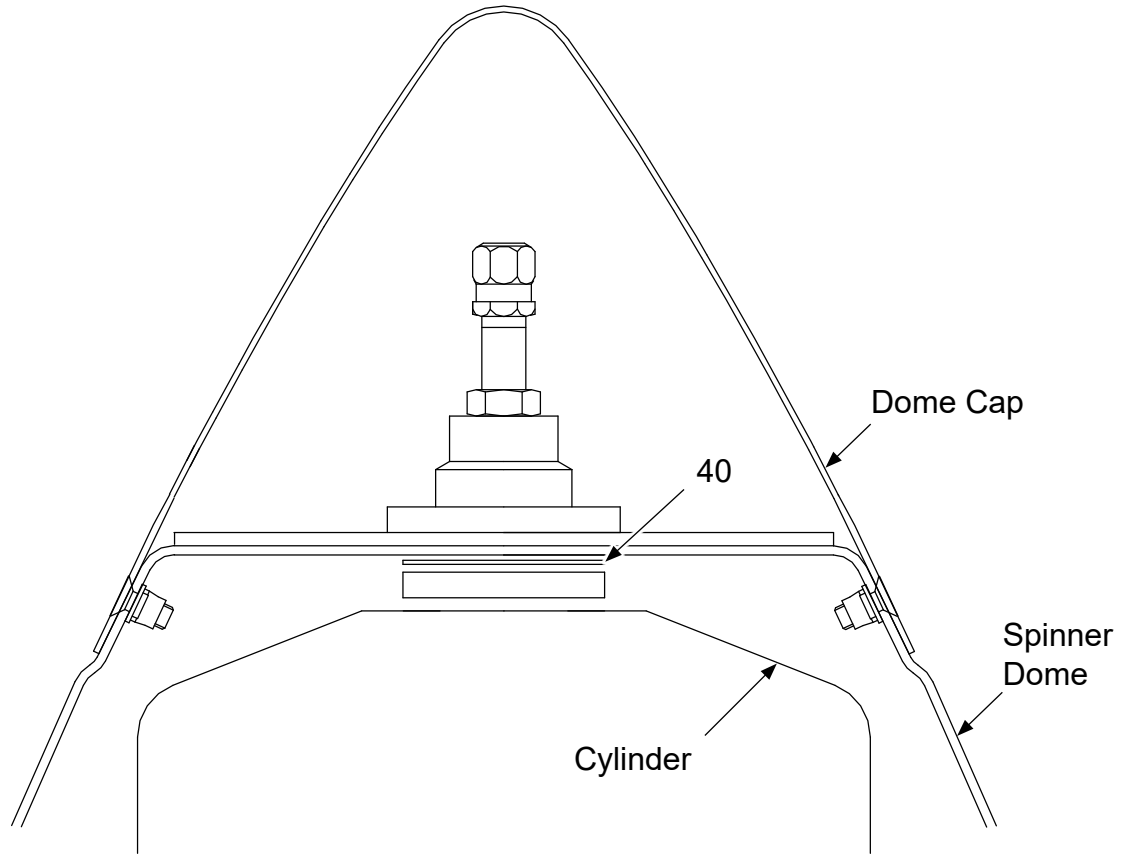
TPI-JM-000335  
TPI-JM-000336

## Spinner Mounting Kit Hardware: Metal Bulkhead Configurations 1-C and 1-D



TPI-JM-000337  
TPI-JM-000338  
TPI-JM-000339

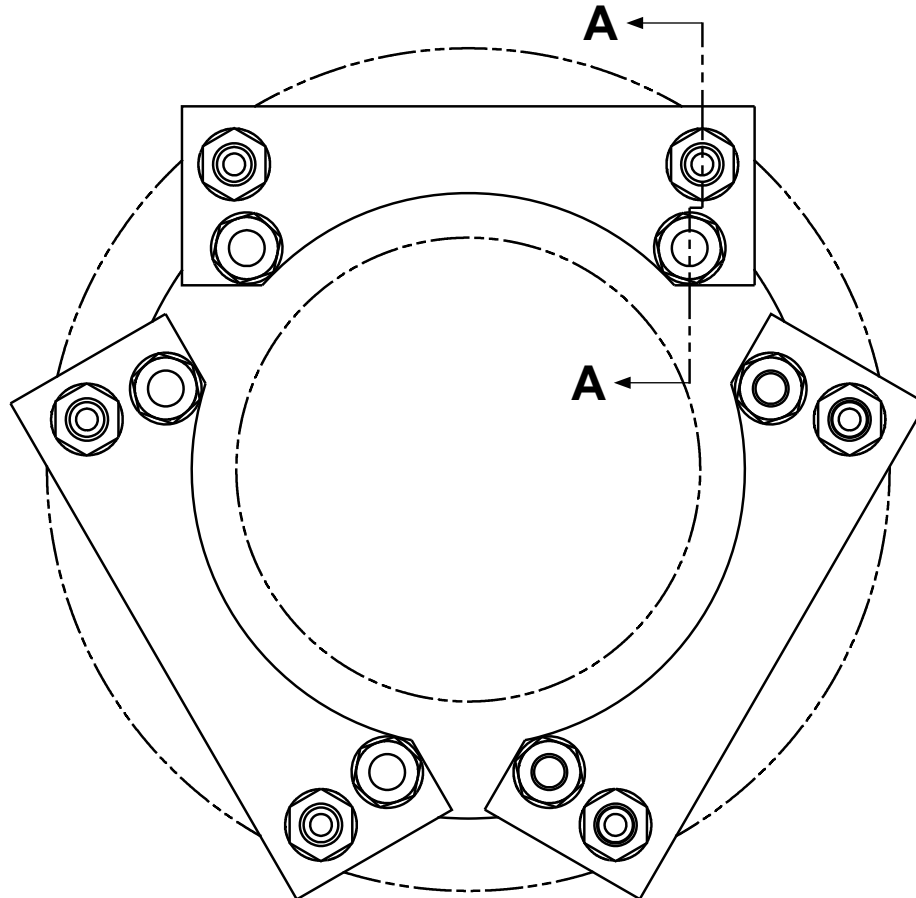
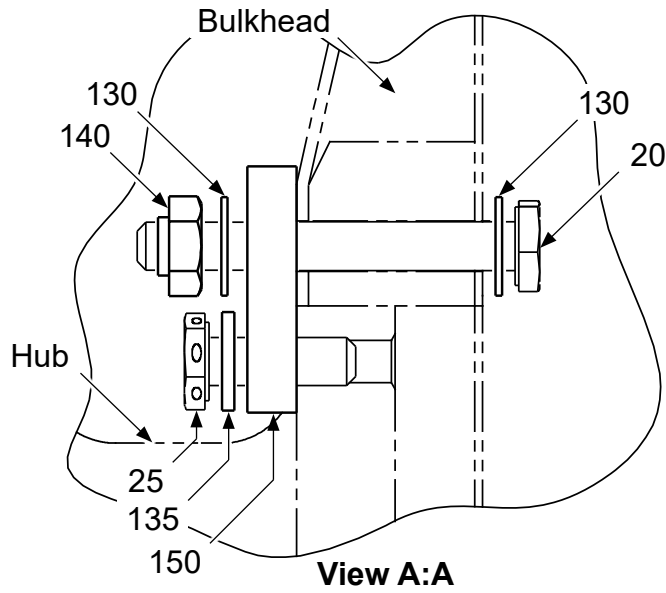
### Spinner Mounting Kit Hardware: Metal Bulkhead Configurations 1-E, 1-F, and 1-G



**Configuration 1-H**

TPI-JM-000344  
TPI-JM-000345

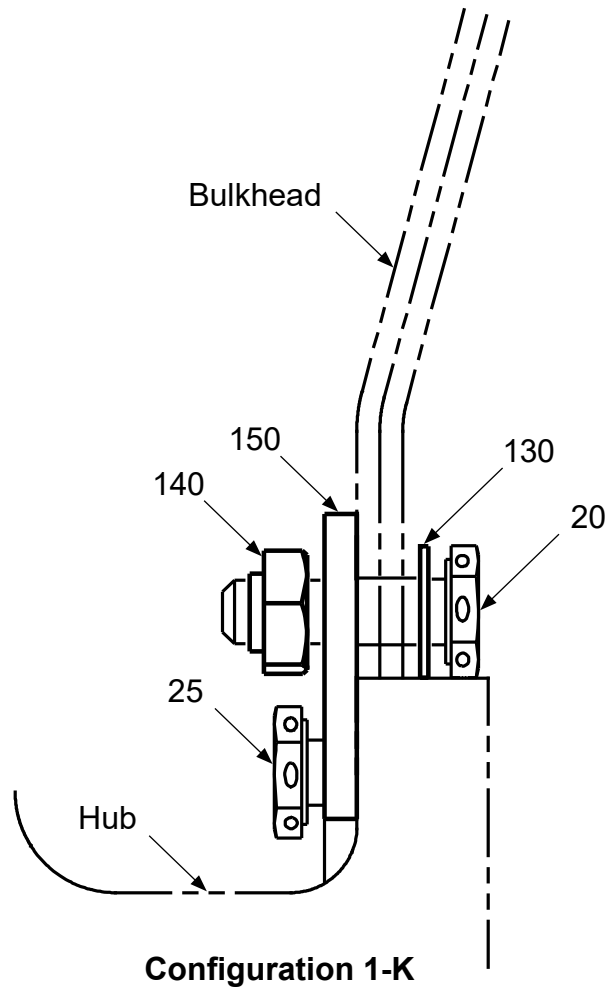
### Spinner Mounting Kit Hardware: Metal Bulkhead Configuration 1-H



**Configuration 1-J**

TPI-JM-000348

**Spinner Mounting Kit Hardware: Metal Bulkhead  
Configuration 1-J**



TPI-JM-000347

**Spinner Mounting Kit Hardware: Metal Bulkhead  
Configuration 1-K**

| ITEM NUMBER | PART NUMBER     | DESCRIPTION  | UPA | O/H |
|-------------|-----------------|--|-----|-----|
|             | <b>A-2476-2</b> | <b>SPINNER MOUNTING KIT (2-BLADED PROPELLER) CONFIGURATION 1-A</b> |     |     |
| 20          | A-1584          | • BOLT, 3/8-24, HEX HEAD   | 4   |     |
| 40          | A-2246-1        | • SPACER, ALUMINUM   | 4   |     |
| 90          | B-3834-0663     | • WASHER   | 4   | Y   |
| 140         | A-2043-1        | • NUT, 3/8-24, HEX, SELF-LOCKING<br>SUPERSEDED BY ITEM 140A        | 4   | Y   |
| 140A        | B-3599          | • NUT, 3/8-24, HEX, SELF-LOCKING<br>SUPERSEDES ITEM 140            | 4   | Y   |

| ITEM NUMBER | PART NUMBER     | DESCRIPTION  | UPA | O/H |
|-------------|-----------------|--|-----|-----|
|             | <b>A-2476-3</b> | <b>SPINNER MOUNTING KIT (2-BLADED PROPELLER) CONFIGURATION 1-A</b>   |     |     |
| 20          | 102691          | • BOLT, 3/8-24, HEX HEAD   | 4   |     |
| 20A         | A-2433          | • BOLT, 3/8-24, HEX HEAD<br>ALTERNATE FOR ITEM 20, POST HC-SL-61-347 | 4   |     |
| 40          | A-2246          | • SPACER, ALUMINUM   | 4   |     |
| 90          | B-3834-0663     | • WASHER   | 4   | Y   |
| 140         | A-2043-1        | • NUT, 3/8-24, HEX, SELF-LOCKING<br>SUPERSEDED BY ITEM 140A          | 4   | Y   |
| 140A        | B-3599          | • NUT, 3/8-24, HEX, SELF-LOCKING<br>SUPERSEDES ITEM 140              | 4   | Y   |

| ITEM NUMBER | PART NUMBER     | DESCRIPTION  | UPA | O/H |
|-------------|-----------------|--|-----|-----|
|             | <b>A-2476-4</b> | <b>SPINNER MOUNTING KIT (2-BLADED PROPELLER) CONFIGURATION 1-A</b>   |     |     |
| 20          | 102691          | • BOLT, 3/8-24, HEX HEAD   | 4   |     |
| 20A         | A-2433          | • BOLT, 3/8-24, HEX HEAD<br>ALTERNATE FOR ITEM 20, POST HC-SL-61-347 | 4   |     |
| 40          | A-2246-4        | • SPACER, ALUMINUM   | 4   |     |
| 90          | B-3834-0663     | • WASHER   | 4   | Y   |
| 140         | A-2043-1        | • NUT, 3/8-24, HEX, SELF-LOCKING<br>SUPERSEDED BY ITEM 140A          | 4   | Y   |
| 140A        | B-3599          | • NUT, 3/8-24, HEX, SELF-LOCKING<br>SUPERSEDES ITEM 140              | 4   | Y   |

### Spinner Mounting Kits: Metal Bulkhead



| ITEM NUMBER | PART NUMBER     | DESCRIPTION  | UPA | O/H |
|-------------|-----------------|--|-----|-----|
|             | <b>A-2476-5</b> | <b>SPINNER MOUNTING KIT (3-BLADED PROPELLER) CONFIGURATION 1-A</b>   |     |     |
| 20          | A-2433          | • BOLT, 3/8-24, HEX HEAD   | 6   |     |
| 20A         | 102691          | • BOLT, 3/8-24, HEX HEAD<br>ALTERNATE FOR ITEM 20, POST HC-SL-61-347 | 6   |     |
| 40          | A-2246          | • SPACER, ALUMINUM   | 6   |     |
| 90          | B-3834-0663     | • WASHER   | 6   | Y   |
| 140         | A-2043-1        | • NUT, 3/8-24, HEX, SELF-LOCKING<br>SUPERSEDED BY ITEM 140A          | 6   | Y   |
| 140A        | B-3599          | • NUT, 3/8-24, HEX, SELF-LOCKING<br>SUPERSEDES ITEM 140              | 6   | Y   |

| ITEM NUMBER | PART NUMBER     | DESCRIPTION  | UPA | O/H |
|-------------|-----------------|--|-----|-----|
|             | <b>A-2476-6</b> | <b>SPINNER MOUNTING KIT (3-BLADED PROPELLER) CONFIGURATION 1-A</b>   |     |     |
| 20          | A-2433          | • BOLT, 3/8-24, HEX HEAD   | 6   |     |
| 20A         | 102691          | • BOLT, 3/8-24, HEX HEAD<br>ALTERNATE FOR ITEM 20, POST HC-SL-61-347 | 6   |     |
| 40          | A-2246-4        | • SPACER, ALUMINUM   | 6   |     |
| 90          | B-3834-0663     | • WASHER   | 6   | Y   |
| 140         | A-2043-1        | • NUT, 3/8-24, HEX, SELF-LOCKING<br>SUPERSEDED BY ITEM 140A          | 6   | Y   |
| 140A        | B-3599          | • NUT, 3/8-24, HEX, SELF-LOCKING<br>SUPERSEDES ITEM 140              | 6   | Y   |

| ITEM NUMBER | PART NUMBER     | DESCRIPTION  | UPA | O/H |
|-------------|-----------------|--|-----|-----|
|             | <b>A-2476-7</b> | <b>SPINNER MOUNTING KIT (3-BLADED PROPELLER) CONFIGURATION 1-A</b>   |     |     |
| 20          | A-2433          | • BOLT, 3/8-24, HEX HEAD   | 6   |     |
| 20A         | 102691          | • BOLT, 3/8-24, HEX HEAD<br>ALTERNATE FOR ITEM 20, POST HC-SL-61-347 | 6   |     |
| 40          | A-2246-3        | • SPACER, ALUMINUM   | 6   |     |
| 90          | B-3834-0663     | • WASHER   | 6   | Y   |
| 140         | A-2043-1        | • NUT, 3/8-24, HEX, SELF-LOCKING<br>SUPERSEDED BY ITEM 140A          | 6   | Y   |
| 140A        | B-3599          | • NUT, 3/8-24, HEX, SELF-LOCKING<br>SUPERSEDES ITEM 140              | 6   | Y   |

### Spinner Mounting Kits: Metal Bulkhead

| ITEM NUMBER | PART NUMBER     | DESCRIPTION  | UPA | O/H |
|-------------|-----------------|--|-----|-----|
|             | <b>A-2476-8</b> | <b>SPINNER MOUNTING KIT (2-BLADED PROPELLER) CONFIGURATION 1-A</b>   |     |     |
| 20          | A-2433          | • BOLT, 3/8-24, HEX HEAD   | 4   |     |
| 20A         | 102691          | • BOLT, 3/8-24, HEX HEAD<br>ALTERNATE FOR ITEM 20, POST HC-SL-61-347 | 4   |     |
| 40          | A-2246-4        | • SPACER, ALUMINUM   | 4   |     |
| 90          | B-3834-0663     | • WASHER   | 12  | Y   |
| 140         | B-3599          | • NUT, 3/8-24, HEX, SELF-LOCKING                                     | 4   | Y   |

| ITEM NUMBER | PART NUMBER     | DESCRIPTION  | UPA | O/H |
|-------------|-----------------|--|-----|-----|
|             | <b>A-2476-9</b> | <b>SPINNER MOUNTING KIT (3-BLADED PROPELLER) CONFIGURATION 1-A</b>   |     |     |
| 20          | A-2433          | • BOLT, 3/8-24, HEX HEAD   | 6   |     |
| 20A         | 102691          | • BOLT, 3/8-24, HEX HEAD<br>ALTERNATE FOR ITEM 20, POST HC-SL-61-347 | 6   |     |
| 40          | A-2246-4        | • SPACER, ALUMINUM   | 6   |     |
| 90          | B-3834-0663     | • WASHER   | 18  | Y   |
| 140         | B-3599          | • NUT, 3/8-24, HEX, SELF-LOCKING                                     | 6   | Y   |

| ITEM NUMBER | PART NUMBER      | DESCRIPTION  | UPA | O/H |
|-------------|------------------|--|-----|-----|
|             | <b>A-2476-10</b> | <b>SPINNER MOUNTING KIT (2-BLADED PROPELLER) CONFIGURATION 1-A</b>   |     |     |
| 20          | A-2433           | • BOLT, 3/8-24, HEX HEAD   | 4   |     |
| 20A         | 102691           | • BOLT, 3/8-24, HEX HEAD<br>ALTERNATE FOR ITEM 20, POST HC-SL-61-347 | 4   |     |
| 40          | A-2246-4         | • SPACER, ALUMINUM   | 4   |     |
| 90          | B-3834-0663      | • WASHER   | 8   | Y   |
| 140         | A-2043-1         | • NUT, 3/8-24, HEX, SELF-LOCKING<br>SUPERSEDED BY ITEM 140A          | 4   | Y   |
| 140A        | B-3599           | • NUT, 3/8-24, HEX, SELF-LOCKING<br>SUPERSEDES ITEM 140              | 4   | Y   |

| ITEM NUMBER | PART NUMBER      | DESCRIPTION  | UPA | O/H |
|-------------|------------------|--|-----|-----|
|             | <b>A-2476-11</b> | <b>SPINNER MOUNTING KIT (3-BLADED PROPELLER) CONFIGURATION 1-A</b>   |     |     |
| 20          | A-2433           | • BOLT, 3/8-24, HEX HEAD   | 6   |     |
| 20A         | 102691           | • BOLT, 3/8-24, HEX HEAD<br>ALTERNATE FOR ITEM 20, POST HC-SL-61-347 | 6   |     |
| 40          | A-2246-4         | • SPACER, ALUMINUM   | 6   |     |
| 90          | B-3834-0663      | • WASHER   | 12  | Y   |
| 140         | A-2043-1         | • NUT, 3/8-24, HEX, SELF-LOCKING<br>SUPERSEDED BY ITEM 140A          | 6   | Y   |
| 140A        | B-3599           | • NUT, 3/8-24, HEX, SELF-LOCKING<br>SUPERSEDES ITEM 140              | 6   | Y   |

### Spinner Mounting Kits: Metal Bulkhead

| ITEM NUMBER | PART NUMBER      | DESCRIPTION  | UPA | O/H |
|-------------|------------------|--|-----|-----|
|             | <b>A-2476-13</b> | <b>SPINNER MOUNTING KIT (3-BLADED PROPELLER) CONFIGURATION 1-H</b> |     |     |
| 20          | 107083           | • BOLT, 3/8-24, HEX HEAD   | 6   |     |
| 20A         | A-3219-1         | • BOLT, 3/8-24, HEX HEAD<br>ALTERNATE FOR ITEM 20                  | 6   |     |
| 40          | A-169-1          | • SPACER   | 4   |     |
| 90          | B-3834-0663      | • WASHER   | 24  | Y   |

| ITEM NUMBER | PART NUMBER      | DESCRIPTION  | UPA | O/H |
|-------------|------------------|--|-----|-----|
|             | <b>A-2476-14</b> | <b>SPINNER MOUNTING KIT (2-BLADED PROPELLER) CONFIGURATION 1-A</b>   |     |     |
| 20          | A-2433           | • BOLT, 3/8-24, HEX HEAD   | 4   |     |
| 20A         | 102691           | • BOLT, 3/8-24, HEX HEAD<br>ALTERNATE FOR ITEM 20, POST HC-SL-61-347 | 4   |     |
| 40          | A-2246           | • SPACER, ALUMINUM   | 4   |     |
| 90          | B-3834-0663      | • WASHER   | 4   | Y   |
| 140         | B-3599           | • NUT, 3/8-24, HEX, SELF-LOCKING                                     | 4   | Y   |

| ITEM NUMBER | PART NUMBER      | DESCRIPTION  | UPA | O/H |
|-------------|------------------|--|-----|-----|
|             | <b>A-2476-16</b> | <b>SPINNER MOUNTING KIT (2-BLADED PROPELLER) CONFIGURATION 1-B</b> |     |     |
| 20          | A-1584           | • BOLT, 3/8-24, HEX HEAD   | 4   |     |
| 40          | A-2246-4         | • SPACER, ALUMINUM   | 4   |     |
| 50          | A-2246-5         | • SPACER, ALUMINUM   | 4   |     |
| 90          | B-3834-0663      | • WASHER   | 8   | Y   |
| 140         | A-2043-1         | • NUT, 3/8-24, HEX, SELF-LOCKING<br>SUPERSEDED BY ITEM 140A        | 4   | Y   |
| 140A        | B-3599           | • NUT, 3/8-24, HEX, SELF-LOCKING<br>SUPERSEDES ITEM 140            | 4   | Y   |

| ITEM NUMBER | PART NUMBER      | DESCRIPTION  | UPA | O/H |
|-------------|------------------|--|-----|-----|
|             | <b>A-2476-17</b> | <b>SPINNER MOUNTING KIT (3-BLADED PROPELLER) CONFIGURATION 1-A</b>   |     |     |
| 20          | A-2433           | • BOLT, 3/8-24, HEX HEAD   | 6   |     |
| 20A         | 102691           | • BOLT, 3/8-24, HEX HEAD<br>ALTERNATE FOR ITEM 20, POST HC-SL-61-347 | 6   |     |
| 40          | A-2246           | • SPACER, ALUMINUM   | 6   |     |
| 90          | B-3834-0663      | • WASHER   | 18  | Y   |
| 140         | B-3599           | • NUT, 3/8-24, HEX, SELF-LOCKING                                     | 6   | Y   |

**Spinner Mounting Kits: Metal Bulkhead**

| ITEM NUMBER | PART NUMBER      | DESCRIPTION  | UPA | O/H |
|-------------|------------------|--|-----|-----|
|             | <b>A-2476-18</b> | <b>SPINNER MOUNTING KIT (3-BLADED PROPELLER) CONFIGURATION 1-C</b>   |     |     |
| 20          | A-2433           | • BOLT, 3/8-24, HEX HEAD   | 6   |     |
| 20A         | 102691           | • BOLT, 3/8-24, HEX HEAD<br>ALTERNATE FOR ITEM 20, POST HC-SL-61-347 | 6   |     |
| 40          | A-2246-4         | • SPACER, ALUMINUM   | 6   |     |
| 50          | A-2246-4         | • SPACER, ALUMINUM   | 6   |     |
| 90          | B-3834-0663      | • WASHER   | 6   | Y   |
| 140         | B-3599           | • NUT, 3/8-24, HEX, SELF-LOCKING                                     | 6   | Y   |

| ITEM NUMBER | PART NUMBER      | DESCRIPTION  | UPA | O/H |
|-------------|------------------|--|-----|-----|
|             | <b>A-2476-19</b> | <b>SPINNER MOUNTING KIT (2-BLADED PROPELLER) CONFIGURATION 1-A</b>   |     |     |
| 20          | A-2433           | • BOLT, 3/8-24, HEX HEAD   | 4   |     |
| 20A         | 102691           | • BOLT, 3/8-24, HEX HEAD<br>ALTERNATE FOR ITEM 20, POST HC-SL-61-347 | 4   |     |
| 40          | A-2246-3         | • SPACER, ALUMINUM   | 4   |     |
| 90          | B-3834-0663      | • WASHER   | 4   | Y   |
| 140         | B-3599           | • NUT, 3/8-24, HEX, SELF-LOCKING                                     | 4   | Y   |

| ITEM NUMBER | PART NUMBER      | DESCRIPTION  | UPA | O/H |
|-------------|------------------|--|-----|-----|
|             | <b>A-2476-20</b> | <b>SPINNER MOUNTING KIT (4-BLADED PROPELLER) CONFIGURATION 1-A</b> |     |     |
| 20          | A-3203           | • BOLT, 3/8-24, HEX HEAD   | 8   |     |
| 40          | A-2246-8         | • SPACER, ALUMINUM   | 8   |     |
| 90          | B-3834-0663      | • WASHER   | 8   | Y   |
| 140         | B-3599           | • NUT, 3/8-24, HEX, SELF-LOCKING                                   | 8   | Y   |

| ITEM NUMBER | PART NUMBER      | DESCRIPTION  | UPA | O/H |
|-------------|------------------|--|-----|-----|
|             | <b>A-2476-23</b> | <b>SPINNER MOUNTING KIT (3-BLADED PROPELLER) CONFIGURATION 1-A</b> |     |     |
| 20          | A-3203           | • BOLT, 3/8-24, HEX HEAD   | 6   |     |
| 40          | A-2246-8         | • SPACER, ALUMINUM   | 6   |     |
| 90          | B-3834-0663      | • WASHER   | 6   | Y   |
| 140         | B-3599           | • NUT, 3/8-24, HEX, SELF-LOCKING                                   | 6   | Y   |

### Spinner Mounting Kits: Metal Bulkhead

| ITEM NUMBER | PART NUMBER      | DESCRIPTION  | UPA | O/H |
|-------------|------------------|--|-----|-----|
|             | <b>A-2476-25</b> | <b>SPINNER MOUNTING KIT (3-BLADED PROPELLER) CONFIGURATION 1-A</b>   |     |     |
| 20          | A-2433           | • BOLT, 3/8-24, HEX HEAD   | 6   |     |
| 20A         | 102691           | • BOLT, 3/8-24, HEX HEAD<br>ALTERNATE FOR ITEM 20, POST HC-SL-61-347 | 6   |     |
| 40          | A-2246-4         | • SPACER, ALUMINUM   | 6   |     |
| 90          | B-3834-0663      | • WASHER   | 6   | Y   |
| 140         | B-3599           | • NUT, 3/8-24, HEX, SELF-LOCKING                                     | 6   | Y   |

| ITEM NUMBER | PART NUMBER      | DESCRIPTION  | UPA        | O/H |
|-------------|------------------|--|------------|-----|
|             | <b>A-2476-26</b> | <b>SPINNER MOUNTING KIT (3-BLADED PROPELLER) (REPLACED BY SPINNER MOUNTING KIT A-2476-7)</b> | <b>OBS</b> |     |

| ITEM NUMBER | PART NUMBER      | DESCRIPTION  | UPA | O/H |
|-------------|------------------|--|-----|-----|
|             | <b>A-2476-27</b> | <b>SPINNER MOUNTING KIT (2-BLADED PROPELLER) CONFIGURATION 1-A</b> |     |     |
| 20          | A-3207           | • BOLT, 3/8-24, HEX HEAD   | 4   |     |
| 40          | A-2246-9         | • SPACER, ALUMINUM   | 4   |     |
| 90          | B-3834-0663      | • WASHER   | 4   | Y   |
| 140         | B-3599           | • NUT, 3/8-24, HEX, SELF-LOCKING                                   | 4   | Y   |

| ITEM NUMBER | PART NUMBER      | DESCRIPTION  | UPA | O/H |
|-------------|------------------|--|-----|-----|
|             | <b>A-2476-29</b> | <b>SPINNER MOUNTING KIT (3-BLADED PROPELLER) CONFIGURATION 1-A</b> |     |     |
| 20          | A-3207           | • BOLT, 3/8-24, HEX HEAD   | 6   |     |
| 40          | A-2246           | • SPACER, ALUMINUM   | 6   |     |
| 90          | B-3834-0663      | • WASHER   | 6   | Y   |
| 140         | B-3599           | • NUT, 3/8-24, HEX, SELF-LOCKING                                   | 6   | Y   |

| ITEM NUMBER | PART NUMBER      | DESCRIPTION  | UPA | O/H |
|-------------|------------------|--|-----|-----|
|             | <b>A-2476-30</b> | <b>SPINNER MOUNTING KIT (3-BLADED PROPELLER) CONFIGURATION 1-A</b>   |     |     |
| 20          | A-2433           | • BOLT, 3/8-24, HEX HEAD   | 6   |     |
| 20A         | 102691           | • BOLT, 3/8-24, HEX HEAD<br>ALTERNATE FOR ITEM 20, POST HC-SL-61-347 | 6   |     |
| 40          | A-2246-3         | • SPACER, ALUMINUM   | 6   |     |
| 90          | B-3834-0663      | • WASHER   | 18  | Y   |
| 140         | B-3599           | • NUT, 3/8-24, HEX, SELF-LOCKING                                     | 6   | Y   |

### Spinner Mounting Kits: Metal Bulkhead

SPINNER MOUNTING KITS **61-02-59**

| ITEM NUMBER | PART NUMBER      | DESCRIPTION  | UPA | O/H |
|-------------|------------------|--|-----|-----|
|             | <b>A-2476-31</b> | <b>SPINNER MOUNTING KIT (2-BLADED PROPELLER) CONFIGURATION 1-A</b> |     |     |
| 20          | A-1584           | • BOLT, 3/8-24, HEX HEAD   | 4   |     |
| 40          | A-2246-11        | • SPACER, ALUMINUM   | 4   |     |
| 90          | B-3834-0663      | • WASHER   | 8   | Y   |
| 140         | B-3599           | • NUT, 3/8-24, HEX, SELF-LOCKING                                   | 4   | Y   |

| ITEM NUMBER | PART NUMBER      | DESCRIPTION  | UPA | O/H |
|-------------|------------------|--|-----|-----|
|             | <b>A-2476-32</b> | <b>SPINNER MOUNTING KIT (2-BLADED PROPELLER) CONFIGURATION 1-A</b> |     |     |
| 20          | A-3207           | • BOLT, 3/8-24, HEX HEAD   | 4   |     |
| 40          | A-2246           | • SPACER, ALUMINUM   | 4   |     |
| 90          | B-3834-0663      | • WASHER   | 4   | Y   |
| 140         | B-3599           | • NUT, 3/8-24, HEX, SELF-LOCKING                                   | 4   | Y   |

| ITEM NUMBER | PART NUMBER      | DESCRIPTION  | UPA | O/H |
|-------------|------------------|--|-----|-----|
|             | <b>A-2476-35</b> | <b>SPINNER MOUNTING KIT (3-BLADED PROPELLER) CONFIGURATION 1-A</b>   |     |     |
| 20          | A-2433           | • BOLT, 3/8-24, HEX HEAD   | 6   |     |
| 20A         | 102691           | • BOLT, 3/8-24, HEX HEAD<br>ALTERNATE FOR ITEM 20, POST HC-SL-61-347 | 6   |     |
| 40          | A-2246-9         | • SPACER, ALUMINUM   | 6   |     |
| 90          | B-3834-0663      | • WASHER   | 6   | Y   |
| 140         | B-3599           | • NUT, 3/8-24, HEX, SELF-LOCKING                                     | 6   | Y   |

| ITEM NUMBER | PART NUMBER      | DESCRIPTION  | UPA | O/H |
|-------------|------------------|--|-----|-----|
|             | <b>A-2476-36</b> | <b>SPINNER MOUNTING KIT (3-BLADED PROPELLER) CONFIGURATION 1-A</b>   |     |     |
| 20          | A-2433           | • BOLT, 3/8-24, HEX HEAD   | 6   |     |
| 20A         | 102691           | • BOLT, 3/8-24, HEX HEAD<br>ALTERNATE FOR ITEM 20, POST HC-SL-61-347 | 6   |     |
| 40          | A-2246-5         | • SPACER, ALUMINUM   | 6   |     |
| 90          | B-3834-0663      | • WASHER   | 6   | Y   |
| 140         | B-3599           | • NUT, 3/8-24, HEX, SELF-LOCKING                                     | 6   | Y   |

### Spinner Mounting Kits: Metal Bulkhead

| ITEM NUMBER | PART NUMBER      | DESCRIPTION  | UPA | O/H |
|-------------|------------------|--|-----|-----|
|             | <b>A-2476-38</b> | <b>SPINNER MOUNTING KIT (3-BLADED PROPELLER) CONFIGURATION 1-D</b> |     |     |
| 20          | A-3203           | • BOLT, 3/8-24, HEX HEAD   | 6   |     |
| 40          | A-2246-8         | • SPACER, ALUMINUM   | 6   |     |
| 90          | B-3834-0663      | • WASHER   | 12  | Y   |
| 140         | B-3599           | • NUT, 3/8-24, HEX, SELF-LOCKING                                   | 6   | Y   |

| ITEM NUMBER | PART NUMBER      | DESCRIPTION  | UPA | O/H |
|-------------|------------------|--|-----|-----|
|             | <b>A-2476-39</b> | <b>SPINNER MOUNTING KIT (4-BLADED PROPELLER) CONFIGURATION 1-A</b>   |     |     |
| 20          | A-2433           | • BOLT, 3/8-24, HEX HEAD   | 8   |     |
| 20A         | 102691           | • BOLT, 3/8-24, HEX HEAD<br>ALTERNATE FOR ITEM 20, POST HC-SL-61-347 | 8   |     |
| 40          | A-2246-4         | • SPACER, ALUMINUM   | 8   |     |
| 90          | B-3834-0663      | • WASHER   | 8   | Y   |
| 140         | A-2043-1         | • NUT, 3/8-24, HEX, SELF-LOCKING<br>SUPERSEDED BY ITEM 140A          | 8   | Y   |
| 140A        | B-3599           | • NUT, 3/8-24, HEX, SELF-LOCKING<br>SUPERSEDES ITEM 140              | 8   | Y   |

| ITEM NUMBER | PART NUMBER      | DESCRIPTION  | UPA | O/H |
|-------------|------------------|--|-----|-----|
|             | <b>A-2476-40</b> | <b>SPINNER MOUNTING KIT (3-BLADED PROPELLER) CONFIGURATION 1-E</b>   |     |     |
| 20          | A-2433           | • BOLT, 3/8-24, HEX HEAD   | 6   |     |
| 20A         | 102691           | • BOLT, 3/8-24, HEX HEAD<br>ALTERNATE FOR ITEM 20, POST HC-SL-61-347 | 6   |     |
| 90          | B-3834-0663      | • WASHER   | 18  | Y   |
| 100         | B-3834-0632      | • WASHER   | 6   | Y   |
| 140         | B-3599           | • NUT, 3/8-24, HEX, SELF-LOCKING                                     | 6   | Y   |

| ITEM NUMBER | PART NUMBER      | DESCRIPTION  | UPA | O/H |
|-------------|------------------|--|-----|-----|
|             | <b>A-2476-41</b> | <b>SPINNER MOUNTING KIT (2-BLADED PROPELLER) CONFIGURATION 1-A</b>   |     |     |
| 20          | A-2433           | • BOLT, 3/8-24, HEX HEAD   | 4   |     |
| 20A         | 102691           | • BOLT, 3/8-24, HEX HEAD<br>ALTERNATE FOR ITEM 20, POST HC-SL-61-347 | 4   |     |
| 40          | A-2246-5         | • SPACER, ALUMINUM   | 4   |     |
| 90          | B-3834-0663      | • WASHER   | 4   | Y   |
| 140         | B-3599           | • NUT, 3/8-24, HEX, SELF-LOCKING                                     | 4   | Y   |

### Spinner Mounting Kits: Metal Bulkhead

| ITEM NUMBER | PART NUMBER      | DESCRIPTION  | UPA | O/H |
|-------------|------------------|--|-----|-----|
|             | <b>A-2476-42</b> | <b>SPINNER MOUNTING KIT (3-BLADED PROPELLER) CONFIGURATION 1-A</b> |     |     |
| 20          | A-1584           | • BOLT, 3/8-24, HEX HEAD   | 6   |     |
| 40          | A-2246-1         | • SPACER, ALUMINUM   | 6   |     |
| 90          | B-3834-0663      | • WASHER   | 6   | Y   |
| 140         | A-2043-1         | • NUT, 3/8-24, HEX, SELF-LOCKING<br>SUPERSEDED BY ITEM 140A        | 6   | Y   |
| 140A        | B-3599           | • NUT, 3/8-24, HEX, SELF-LOCKING<br>SUPERSEDES ITEM 140            | 6   | Y   |

| ITEM NUMBER | PART NUMBER      | DESCRIPTION  | UPA | O/H |
|-------------|------------------|--|-----|-----|
|             | <b>A-2476-43</b> | <b>SPINNER MOUNTING KIT (2-BLADED PROPELLER) CONFIGURATION 1-A</b>   |     |     |
| 20          | A-2433           | • BOLT, 3/8-24, HEX HEAD   | 4   |     |
| 20A         | 102691           | • BOLT, 3/8-24, HEX HEAD<br>ALTERNATE FOR ITEM 20, POST HC-SL-61-347 | 4   |     |
| 40          | A-2246-3         | • SPACER, ALUMINUM   | 4   |     |
| 90          | B-3834-0663      | • WASHER   | 12  | Y   |
| 140         | B-3599           | • NUT, 3/8-24, HEX, SELF-LOCKING                                     | 4   | Y   |

| ITEM NUMBER | PART NUMBER      | DESCRIPTION  | UPA | O/H |
|-------------|------------------|--|-----|-----|
|             | <b>A-2476-44</b> | <b>SPINNER MOUNTING KIT (3-BLADED PROPELLER) CONFIGURATION 1-A</b>   |     |     |
| 20          | A-2433           | • BOLT, 3/8-24, HEX HEAD   | 6   |     |
| 20A         | 102691           | • BOLT, 3/8-24, HEX HEAD<br>ALTERNATE FOR ITEM 20, POST HC-SL-61-347 | 6   |     |
| 40          | A-2246-9         | • SPACER, ALUMINUM   | 6   |     |
| 90          | B-3834-0663      | • WASHER   | 18  | Y   |
| 140         | B-3599           | • NUT, 3/8-24, HEX, SELF-LOCKING                                     | 6   | Y   |

| ITEM NUMBER | PART NUMBER      | DESCRIPTION  | UPA | O/H |
|-------------|------------------|--|-----|-----|
|             | <b>A-2476-45</b> | <b>SPINNER MOUNTING KIT (3-BLADED PROPELLER) CONFIGURATION 1-F</b>   |     |     |
| 20          | A-2433           | • BOLT, 3/8-24, HEX HEAD   | 6   |     |
| 20A         | 102691           | • BOLT, 3/8-24, HEX HEAD<br>ALTERNATE FOR ITEM 20, POST HC-SL-61-347 | 6   |     |
| 40          | A-2246-7         | • SPACER, ALUMINUM   | 6   |     |
| 90          | B-3834-0663      | • WASHER   | 12  | Y   |
| 100         | B-3834-0632      | • WASHER   | 6   | Y   |
| 140         | B-3599           | • NUT, 3/8-24, HEX, SELF-LOCKING                                     | 6   | Y   |

### Spinner Mounting Kits: Metal Bulkhead



| ITEM NUMBER | PART NUMBER      | DESCRIPTION  | UPA | O/H |
|-------------|------------------|--|-----|-----|
|             | <b>A-2476-46</b> | <b>SPINNER MOUNTING KIT (2-BLADED PROPELLER) CONFIGURATION 1-E</b>   |     |     |
| 20          | A-2433           | • BOLT, 3/8-24, HEX HEAD   | 4   |     |
| 20A         | 102691           | • BOLT, 3/8-24, HEX HEAD<br>ALTERNATE FOR ITEM 20, POST HC-SL-61-347 | 4   |     |
| 90          | B-3834-0663      | • WASHER   | 12  | Y   |
| 100         | B-3834-0632      | • WASHER   | 4   | Y   |
| 140         | B-3599           | • NUT, 3/8-24, HEX, SELF-LOCKING                                     | 4   | Y   |

| ITEM NUMBER | PART NUMBER      | DESCRIPTION  | UPA | O/H |
|-------------|------------------|--|-----|-----|
|             | <b>A-2476-47</b> | <b>SPINNER MOUNTING KIT (3-BLADED PROPELLER) CONFIGURATION 1-A</b> |     |     |
| 20          | A-3203           | • BOLT, 3/8-24, HEX HEAD   | 6   |     |
| 40          | A-2246-5         | • SPACER, ALUMINUM   | 6   |     |
| 90          | B-3834-0663      | • WASHER   | 18  | Y   |
| 140         | B-3599           | • NUT, 3/8-24, HEX, SELF-LOCKING                                   | 6   | Y   |

| ITEM NUMBER | PART NUMBER      | DESCRIPTION  | UPA | O/H |
|-------------|------------------|--|-----|-----|
|             | <b>A-2476-48</b> | <b>SPINNER MOUNTING KIT (2-BLADED PROPELLER) CONFIGURATION 1-A</b>   |     |     |
| 20          | A-2433           | • BOLT, 3/8-24, HEX HEAD   | 4   |     |
| 20A         | 102691           | • BOLT, 3/8-24, HEX HEAD<br>ALTERNATE FOR ITEM 20, POST HC-SL-61-347 | 4   |     |
| 40          | A-2246-9         | • SPACER, ALUMINUM   | 4   |     |
| 90          | B-3834-0663      | • WASHER   | 12  | Y   |
| 140         | B-3599           | • NUT, 3/8-24, HEX, SELF-LOCKING                                     | 4   | Y   |

| ITEM NUMBER | PART NUMBER      | DESCRIPTION  | UPA | O/H |
|-------------|------------------|--|-----|-----|
|             | <b>A-2476-51</b> | <b>SPINNER MOUNTING KIT (3-BLADED PROPELLER) CONFIGURATION 1-A</b> |     |     |
| 20          | A-1584           | • BOLT, 3/8-24, HEX HEAD   | 6   |     |
| 40          | A-2246-11        | • SPACER, ALUMINUM   | 6   |     |
| 90          | B-3834-0663      | • WASHER   | 6   | Y   |
| 140         | B-3599           | • NUT, 3/8-24, HEX, SELF-LOCKING                                   | 6   | Y   |

### Spinner Mounting Kits: Metal Bulkhead

| ITEM NUMBER | PART NUMBER      | DESCRIPTION  | UPA | O/H |
|-------------|------------------|--|-----|-----|
|             | <b>A-2476-52</b> | <b>SPINNER MOUNTING KIT (3-BLADED PROPELLER) CONFIGURATION 1-A</b> |     |     |
| 20          | 102691           | • BOLT, 3/8-24, HEX HEAD   | 6   |     |
| 40          | A-2246-6         | • SPACER, ALUMINUM   | 6   |     |
| 90          | B-3834-0663      | • WASHER   | 12  | Y   |
| 140         | B-3599           | • NUT, 3/8-24, HEX, SELF-LOCKING                                   | 6   | Y   |

| ITEM NUMBER | PART NUMBER      | DESCRIPTION  | UPA | O/H |
|-------------|------------------|--|-----|-----|
|             | <b>A-2476-55</b> | <b>SPINNER MOUNTING KIT (2-BLADED PROPELLER) CONFIGURATION 1-A</b> |     |     |
| 20          | A-3203           | • BOLT, 3/8-24, HEX HEAD   | 4   |     |
| 40          | A-2246-8         | • SPACER, ALUMINUM   | 4   |     |
| 90          | B-3834-0663      | • WASHER   | 4   | Y   |
| 140         | B-3599           | • NUT, 3/8-24, HEX, SELF-LOCKING                                   | 4   | Y   |

| ITEM NUMBER | PART NUMBER      | DESCRIPTION  | UPA | O/H |
|-------------|------------------|--|-----|-----|
|             | <b>A-2476-63</b> | <b>SPINNER MOUNTING KIT (2-BLADED PROPELLER) CONFIGURATION 1-A</b> |     |     |
| 20          | A-1584           | • BOLT, 3/8-24, HEX HEAD   | 4   |     |
| 40          | A-2246-1         | • SPACER, ALUMINUM   | 4   |     |
| 90          | B-3834-0663      | • WASHER   | 8   | Y   |
| 140         | B-3599           | • NUT, 3/8-24, HEX, SELF-LOCKING                                   | 4   | Y   |

| ITEM NUMBER | PART NUMBER      | DESCRIPTION  | UPA | O/H |
|-------------|------------------|--|-----|-----|
|             | <b>A-2476-64</b> | <b>SPINNER MOUNTING KIT (2-BLADED PROPELLER) CONFIGURATION 1-A</b> |     |     |
| 20          | 102691           | • BOLT, 3/8-24, HEX HEAD   | 4   |     |
| 40          | A-2246-7         | • SPACER, ALUMINUM   | 4   |     |
| 90          | B-3834-0663      | • WASHER   | 8   | Y   |
| 140         | B-3599           | • NUT, 3/8-24, HEX, SELF-LOCKING                                   | 4   | Y   |

| ITEM NUMBER | PART NUMBER      | DESCRIPTION  | UPA | O/H |
|-------------|------------------|--|-----|-----|
|             | <b>A-2476-66</b> | <b>SPINNER MOUNTING KIT (3-BLADED PROPELLER) CONFIGURATION 1-A</b> |     |     |
| 20          | A-1584           | • BOLT, 3/8-24, HEX HEAD   | 6   |     |
| 40          | A-2246-1         | • SPACER, ALUMINUM   | 6   |     |
| 90          | B-3834-0663      | • WASHER   | 18  | Y   |
| 140         | B-3599           | • NUT, 3/8-24, HEX, SELF-LOCKING                                   | 6   | Y   |

### Spinner Mounting Kits: Metal Bulkhead

| ITEM NUMBER | PART NUMBER      | DESCRIPTION  | UPA | O/H |
|-------------|------------------|--|-----|-----|
|             | <b>A-2476-70</b> | <b>SPINNER MOUNTING KIT (4-BLADED PROPELLER) CONFIGURATION 1-G</b> |     |     |
| 20          | A-3203           | • BOLT, 3/8-24, HEX HEAD   | 8   |     |
| 40          | A-2246           | • SPACER, ALUMINUM   | 8   |     |
| 90          | B-3834-0632      | • WASHER   | 16  | Y   |
| 140         | B-3599           | • NUT, 3/8-24, HEX, SELF-LOCKING                                   | 8   | Y   |

| ITEM NUMBER | PART NUMBER      | DESCRIPTION  | UPA | O/H |
|-------------|------------------|--|-----|-----|
|             | <b>A-2476-71</b> | <b>SPINNER MOUNTING KIT (4-BLADED PROPELLER) CONFIGURATION 1-A</b> |     |     |
| 20          | A-1584           | • BOLT, 3/8-24, HEX HEAD   | 8   |     |
| 40          | A-2246-13        | • SPACER, ALUMINUM   | 8   |     |
| 90          | B-3834-0632      | • WASHER   | 8   | Y   |
| 140         | B-3599           | • NUT, 3/8-24, HEX, SELF-LOCKING                                   | 8   | Y   |

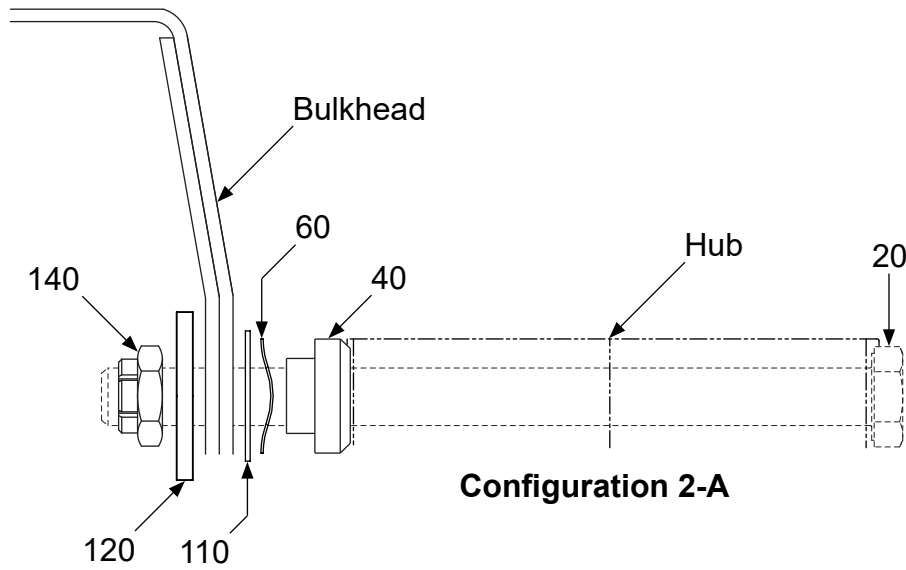
| ITEM NUMBER | PART NUMBER      | DESCRIPTION  | UPA | O/H |
|-------------|------------------|--|-----|-----|
|             | <b>A-2476-72</b> | <b>SPINNER MOUNTING KIT (2-BLADED PROPELLER) CONFIGURATION 1-B</b> |     |     |
| 20          | 107083           | • BOLT, 3/8-24, HEX HEAD   | 4   |     |
| 40          | A-2246-4         | • SPACER, ALUMINUM   | 4   |     |
| 50          | A-2246-10        | • SPACER, ALUMINUM   | 4   |     |
| 90          | B-3834-0663      | • WASHER   | 12  | Y   |
| 140         | B-3599           | • NUT, 3/8-24, HEX, SELF-LOCKING                                   | 4   | Y   |

| ITEM NUMBER | PART NUMBER   | DESCRIPTION   | UPA | O/H |
|-------------|---------------|---|-----|-----|
|             | <b>A-3491</b> | <b>SPINNER MOUNTING KIT FOR STEEL HUBS (3-BLADED PROPELLER) CONFIGURATION 1-J</b> |     |     |
| 20          | B-3384-18     | • BOLT, 1/4-28, HEX HEAD  | 6   | Y   |
| 130         | B-3851-0432   | • WASHER  | 12  | Y   |
| 150         | C-6932        | • BRACKET, SPINNER MOUNTING   | 3   |     |
| 140         | B-3808-4      | • NUT, HEX, SELF-LOCKING  | 6   | Y   |
| 135         | B-3851-0463   | • WASHER  | 6   | Y   |
| 25          | B-3384-4H     | • BOLT, 1/4-28, HEX HEAD  | 6   | Y   |

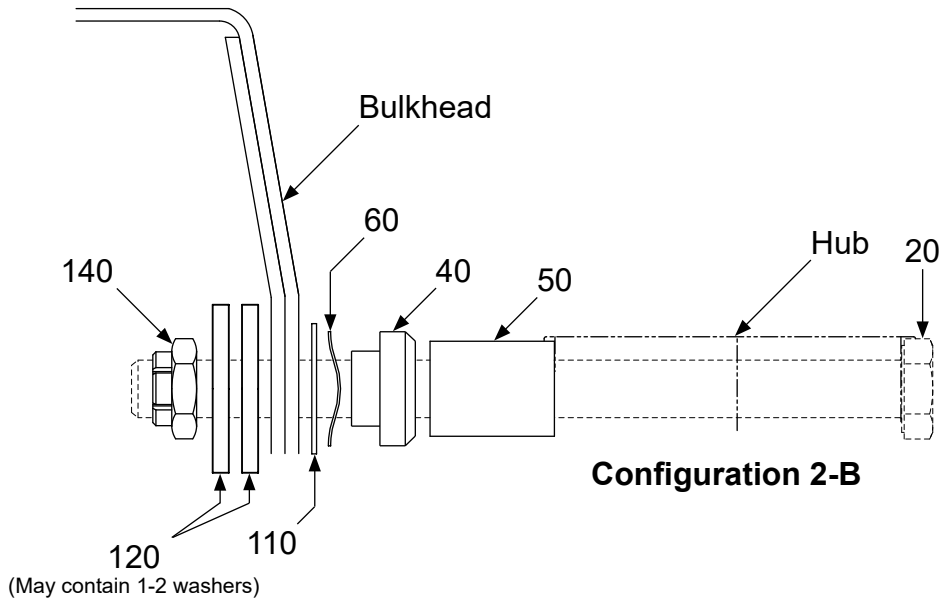
### Spinner Mounting Kits: Metal Bulkhead

| ITEM NUMBER | PART NUMBER   | DESCRIPTION   | UPA | O/H |
|-------------|---------------|---|-----|-----|
|             | <b>A-3648</b> | <b>SPINNER MOUNTING KIT FOR STEEL HUBS<br/>(3-BLADED PROPELLER)<br/>CONFIGURATION 1-J</b> |     |     |
| 20          | B-3384-3H     | • BOLT, 1/4-28, HEX HEAD  | 6   | Y   |
| 130         | B-3851-0432   | • WASHER  | 6   | Y   |
| 150         | C-3643        | • PLATE, MOUNTING, SPINNER  | 1   |     |
| 140         | B-3808-4      | • NUT, HEX, SELF-LOCKING  | 6   | Y   |
| 25          | B-3384-1H     | • BOLT, 1/4-28, HEX HEAD  | 6   | Y   |

**Spinner Mounting Kits  
for Composite Spinner Bulkheads**



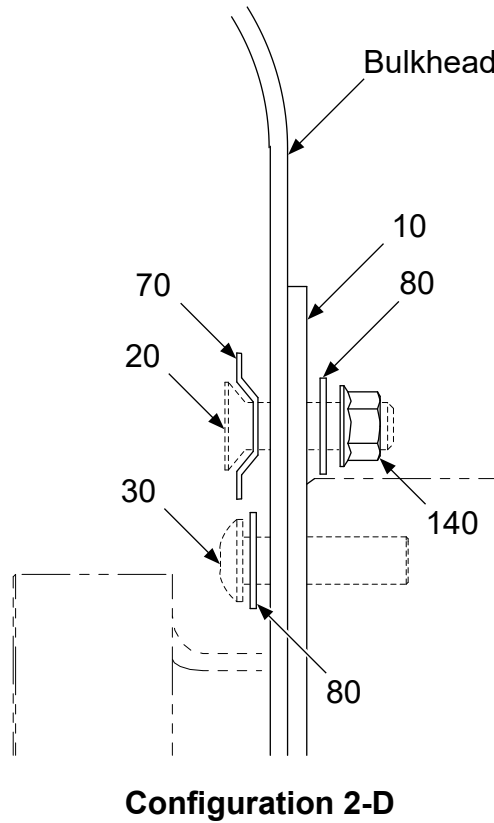
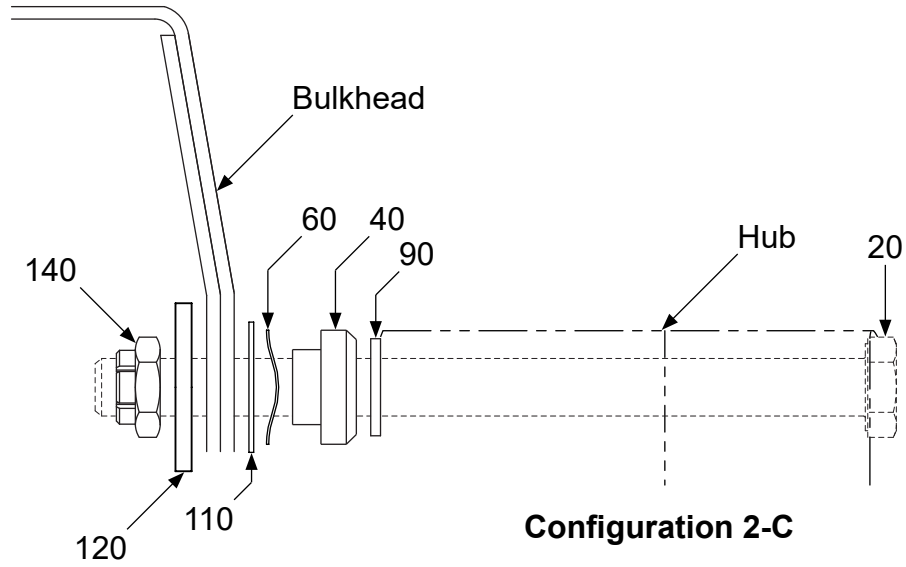
**Configuration 2-A**



**Configuration 2-B**

TPL-JM-000340  
TPL-JM-000341

**Spinner Mounting Kit Hardware: Composite Bulkhead  
Configurations 2-A and 2-B**



TPL-JM-000342  
TPL-JM-000343

**Spinner Mounting Kit Hardware: Composite Bulkhead  
Configurations 2-C and 2-D**

| ITEM NUMBER | PART NUMBER      | DESCRIPTION  | UPA | O/H |
|-------------|------------------|--|-----|-----|
|             | <b>A-2476-34</b> | <b>SPINNER MOUNTING KIT (3-BLADED PROPELLER)<br/>CONFIGURATION 2-A</b> |     |     |
| 20          | 102691           | • BOLT, 3/8-24, HEX HEAD   | 6   |     |
| 20A         | A-2433           | • BOLT, 3/8-24, HEX HEAD<br>ALTERNATE FOR ITEM 20, POST HC-SL-61-347   | 6   |     |
| 40          | B-7424           | • SPACER, ALUMINUM, REPLACED BY ITEM 40A                               | 6   |     |
| 40A         | B-7424-1         | • SPACER, ALUMINUM, REPLACES ITEM 40                                   | 6   |     |
| 60          | B-7425           | • WASHER, 1/2 INCH WAVE, CRES  | 6   |     |
| 110         | B-3834-0832      | • WASHER   | 6   | Y   |
| 120         | B-7423           | • WASHER   | 6   |     |
| 140         | B-3599           | • NUT, 3/8-24, HEX, SELF-LOCKING                                       | 6   | Y   |

| ITEM NUMBER | PART NUMBER      | DESCRIPTION  | UPA | O/H |
|-------------|------------------|--|-----|-----|
|             | <b>A-2476-53</b> | <b>SPINNER MOUNTING KIT (2-BLADED PROPELLER)<br/>CONFIGURATION 2-A</b> |     |     |
| 20          | 102691           | • BOLT, 3/8-24, HEX HEAD   | 4   |     |
| 20A         | A-2433           | • BOLT, 3/8-24, HEX HEAD<br>ALTERNATE FOR ITEM 20, POST HC-SL-61-347   | 4   |     |
| 40          | B-7424-1         | • SPACER, ALUMINUM   | 4   |     |
| 60          | B-7425           | • WASHER, 1/2 INCH WAVE, CRES  | 4   | Y   |
| 110         | B-3834-0832      | • WASHER   | 4   | Y   |
| 120         | B-7423           | • WASHER   | 4   |     |
| 140         | B-3599           | • NUT, 3/8-24, HEX, SELF-LOCKING                                       | 4   | Y   |

| ITEM NUMBER | PART NUMBER      | DESCRIPTION  | UPA | O/H |
|-------------|------------------|--|-----|-----|
|             | <b>A-2476-56</b> | <b>SPINNER MOUNTING KIT (3-BLADED PROPELLER)<br/>CONFIGURATION 2-C</b> |     |     |
| 20          | 102691           | • BOLT, 3/8-24, HEX HEAD   | 6   |     |
| 20A         | A-2433           | • BOLT, 3/8-24, HEX HEAD<br>ALTERNATE FOR ITEM 20, POST HC-SL-61-347   | 6   |     |
| 40          | B-7424-2         | • SPACER   | 6   |     |
| 60          | B-7425           | • WASHER, 1/2 INCH WAVE, CRES  | 6   | Y   |
| 90          | B-3834-0663      | • WASHER   | 6   | Y   |
| 110         | B-3834-0832      | • WASHER   | 6   | Y   |
| 120         | B-7423           | • WASHER   | 6   |     |
| 140         | B-3599           | • NUT, 3/8-24, HEX, SELF-LOCKING                                       | 6   | Y   |

### Spinner Mounting Kits: Composite Bulkhead



| ITEM NUMBER | PART NUMBER      | DESCRIPTION  | UPA | O/H |
|-------------|------------------|--|-----|-----|
|             | <b>A-2476-59</b> | <b>SPINNER MOUNTING KIT (3-BLADED PROPELLER) CONFIGURATION 2-D</b> |     |     |
| 10          | 105124           | • RING, MOUNTING, SPINNER  | 1   |     |
| 20          | 104789           | • SCREW, 1/4-28, 100 DEGREE HEAD                                   | 6   |     |
| 30          | A-2070-6         | • SCREW, 1/4-28, BUTTON HEAD                                       | 6   |     |
| 70          | B-3860-416       | • WASHER, DIMPLED, 100°, CRES                                      | 6   |     |
| 80          | B-3837-0432      | • WASHER, CORROSION RESISTANT                                      | 12  | Y   |
| 140         | B-3814           | • NUT, 1/4-28, HEX, SELF-LOCKING                                   | 6   | Y   |

| ITEM NUMBER | PART NUMBER      | DESCRIPTION  | UPA | O/H |
|-------------|------------------|--|-----|-----|
|             | <b>A-2476-60</b> | <b>SPINNER MOUNTING KIT (3-BLADED PROPELLER) CONFIGURATION 2-B</b> |     |     |
| 20          | A-1584           | • BOLT, 3/8-24, HEX HEAD   | 6   |     |
| 40          | B-7424-1         | • SPACER   | 6   |     |
| 50          | A-2246-1         | • SPACER, ALUMINUM   | 6   |     |
| 60          | B-7425           | • WASHER, 1/2 INCH WAVE, CRES                                      | 6   |     |
| 110         | B-3834-0832      | • WASHER   | 6   | Y   |
| 120         | B-7423           | • WASHER   | 6   |     |
| 140         | B-3599           | • NUT, 3/8-24, HEX, SELF-LOCKING                                   | 6   | Y   |

| ITEM NUMBER | PART NUMBER      | DESCRIPTION  | UPA | O/H |
|-------------|------------------|--|-----|-----|
|             | <b>A-2476-67</b> | <b>SPINNER MOUNTING KIT (3-BLADED PROPELLER) CONFIGURATION 2-B</b> |     |     |
| 20          | 102691           | • BOLT, 3/8-24, HEX HEAD   | 6   |     |
| 40          | B-7424-2         | • SPACER   | 6   |     |
| 50          | A-2246-9         | • SPACER, ALUMINUM   | 6   |     |
| 60          | B-7425           | • WASHER, 1/2 INCH WAVE, CRES                                      | 6   |     |
| 110         | B-3834-0832      | • WASHER   | 6   | Y   |
| 120         | B-7423           | • WASHER   | 6   |     |
| 140         | B-3599           | • NUT, 3/8-24, HEX, SELF-LOCKING                                   | 6   | Y   |

**Spinner Mounting Kits: Composite Bulkhead**

| ITEM NUMBER | PART NUMBER      | DESCRIPTION  | UPA | O/H |
|-------------|------------------|--|-----|-----|
|             | <b>A-2476-68</b> | <b>SPINNER MOUNTING KIT (3-BLADED PROPELLER)<br/>CONFIGURATION 2-B</b> |     |     |
| 20          | A-1584           | • BOLT, 3/8-24, HEX HEAD   | 6   |     |
| 40          | B-7424-1         | • SPACER   | 6   |     |
| 50          | A-2246-8         | • SPACER, ALUMINUM   | 6   |     |
| 60          | B-7425           | • WASHER, 1/2 INCH WAVE, CRES  | 6   |     |
| 110         | B-3834-0832      | • WASHER   | 6   | Y   |
| 120         | B-7423           | • WASHER   | 6   |     |
| 140         | B-3599           | • NUT, 3/8-24, HEX, SELF-LOCKING                                       | 6   | Y   |

**Spinner Mounting Kits: Composite Bulkhead**