



Maintenance

and

N531A Hobbs 1531.9 hrs 1/17/2019


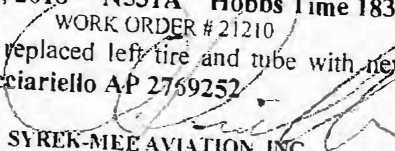

Removed S-TEC 55 Program annunciator P/N 01192-27TP s/n 1603L/G for repair. Removed S-TEC Trim Monitor Warning Box P/N 01240-1 s/n 482 repair. Reinstalled both units in aircraft and tested IAW S-TEC field service maintenance manual. Ops checks all ok.

Removed defective S-TEC Pitch Servo and installed new one. P/N 0108-P1 S/N 00108-1849-00002CDEFGJK. Set clutch to 44inch/lbs and adjusted bridle cable tension to 15 lbs. Work done IAW S-TEC installation instructions. Test autopilot on ground IAW S-TEC field service maintenance manual. Ops checks all ok.

*Eric Saad ATP 3017923*

Total To Carry Forward				

Registration No. \_\_\_\_\_

and Remarks	Signature	Certificate No.
<p>AIRFRAME LOG August 8, 2018 N531A Hobbs Time 1835.1 WORK ORDER # 21210 Jacked aircraft replaced left tire and tube with new Swing gear. Alex Pucciariello AP 2769252</p> <p>SYREK-MEE AVIATION, INC. 182 Pension Rd. Englishtown, NJ 07726 732-792-0220</p> 		
<p>N531A Hobbs 1531.9 hrs 1/17/2019 Installed Garmin GDL-82 ADS-B unit as follow on to STC # SA02573SE. See FAA form 337 dated 1/17/2019 for details. ICA for the GDL-82 included with the 337. Work done IAW manufactures installation manual and AC 43.13-1B/2B. Weight and Balance modified to reflect this change. Flight Manual Supplement P/N 190-01810-12 Rev 1 placed in the aircraft Flight Manual. Ops checks all ok</p>  AEP 3017923		

#1

Hobbs:

REG: N531A MODEL: PA-32R-30IT ~~TRAC~~ 1779.3

Total To  
Carry Forward

I CERTIFY THAT THE ALTIMETER, STATIC LEAK AND ALTITUDE ENCODER TESTS REQUIRED BY FAR 91.411 HAVE BEEN PERFORMED.

THE ALTIMETER P/N 5934 PD-3 SN. 411015

WAS TESTED TO 20,000 FEET ON 02-27-2018

BY Three Crown Avionics Inc

THE ENCODER P/N AR-850 SN. 15752 ON. 2-27-18

AUTHORIZED

DATE OF STATIC TEST. 2-27-18 SIGNATURE. [Signature]

THE ATC TRANSPONDER MODEL: GTX 327 SN. 83700438

WAS TESTED IN ACCORDANCE WITH PART 43 APPENDIX F FOR COMPLIANCE WITH FAR 91.413 THIS DATE 2-27-2018

FAA REPAIR STATION #TXXR014L

AUTHORIZED SIGNATURE. [Signature]

Recorder  
Reading

CRAFT LOG

#2

Hobbs:

REG: N531A MODEL: PA-32R-30IT ~~TRAC~~ 1779.3

I CERTIFY THAT THE ALTIMETER TEST REQUIRED BY FAR 91.411 HAS BEEN PERFORMED.

THE ALTIMETER P/N 5934 PD-3 SN. 412183

WAS TESTED TO 20,000 FEET ON 02-27-2018

BY Three Crown Avionics Inc

FAA REPAIR STATION #TXXR014L

IATA FOR TRAINING USE ONLY

AUTHORIZED SIGNATURE. [Signature]

Air Mock and Repair, Inc  
 Trenton-Robbinsville Airport (N87)  
 Factory Authorized Mooney Service Center

Airframe Log

N531A 1-3-18 Hobbs: 1763.0 ACTT: 1763.0 Since last insp: 123.8

- \* C/W Annual inspection & servicing IAW Piper inspection form 230-2047 and requirements of FAR 43 Appendix D.
- \* Replaced all engine isolator mounts w/ New Darry mounts P#94011-02 and 94011-03
- \* Replaced Rt. Main tire w/ New Michelin 6.00x6
- \* Replaced both L.&R brake caliper o-rings w/ New MS28775-222 and all brake linings w/ New RA-66-6200
- \* Replaced RH nav. LL bulb w/ New P# 1290-28
- \* Replaced seals in L&R main gear actuators w/ New P# 199-538A seal kits. Serviced gear system w/ 5606 hyd. Fluid. Performed multiple gear extension, retractions and emergency extensions and checked for proper rigging.
- \* AD 1-1-18 (2018) - 2018 - up. Dup's check. Date exp. 12/31/22
- \* AD compliance checked thru in weekly 2017, 2018
- \* C/W Additional Annual Inspection required RW's.

I certify that this aircraft has been inspected in accordance with an Annual inspection and was determined to be in airworthy condition.

*David Mathiesen*  
 David Mathiesen A/P 2777904 UA

AIRFRAME LOG  
 March 19, 2018 N531A Hobbs Time 1786.3  
 WORK ORDER # 21070

Replaced nose leg tube with new. Ground check OK  
 Brandon M. Smith, 3985223 AP.

*Brandon M. Smith*

SYREK-MEE AVIATION, INC.  
 OLD BRIDGE AIRPORT, HANGER A41  
 182 PENSION RD, ENGLISHTOWN NJ 07726  
 732-792-0220

and Remarks

Registration No. \_\_\_\_\_

IATA FOR TRAINING USE ONLY		Signature	
		Certificate No.	



Registration No. \_\_\_\_\_

ance

and Remarks

Signature

Certificate No.

**AIRFRAME LOG**

**March 24, 2016 N531A Hobbs Time 1555.6**

*WORK ORDER # 20712*

Replaced battery with new Concorde RG24-15M, see 337 this date.

Ground operational check normal.

**Mark Pfunke 129529515 AP.**

**SYREK-MEE AVIATION, INC.  
OLD BRIDGE AIRPORT, HANGER AAI  
182 PENSION RD, ENGLISHTOWN NJ 07726**

*Task No. 10014 - August 8, 2016 - Hobbs Time 1601.3 - Hours 124.4*

*Work Order # 20799 - Replaced left main tire and tube with customer supplied new, leak check normal. See 337 this date.*

*First Class Aviation Dept. - 182 Pension Rd. - Englishtown NJ 07726*

*This aircraft, engine or propeller identified was repaired and inspected in accordance with current regulations of the FAA and is approved for return to service. (14 CFR 43.9, 43.16)*

*MJP*

*3-23-2016*  
date

AIRFRAME LOG

**August 8, 2016 N531A Hobbs Time 1601.3**

*WORK ORDER # 20799*

Replaced left main tire and tube with customer supplied new, leak check normal.

**Mark Pfunke 129529515 AP.**

**SYREK-MEE AVIATION, INC.  
OLD BRIDGE AIRPORT, HANGER AAI  
182 PENSION RD, ENGLISHTOWN NJ 07726  
732-792-0220**

**AIRCRAFT LOG**

*Air Mods and Repair, Inc.  
Truxton-Robbinsville Airport (N87)  
Factory Authorized Mooney Service Center*

**Maintenance**

*Airframe Log*

**N531A Nov. 20, 2015 Hobbs: 1481.0 ACTT: 1481.0 Since last insp: 118.8**

- **C/W Annual inspection & servicing IAW Piper inspection form 230-2047 and requirements of FAR 43 Appendix D.**
- **Installed new; all 66-6200 Brake linings, NG wheel bearings 08125 & 08231, Michelin 600-6 tire LMLG, Gasolator seal MS28775-043, Lamar Alternator Inoperative Switch, 28V, P/N A-00258. Serviced Landing Gear Reservoir. Tightened Autopilot elevator bridle cable. Repaired NG up-stop Snubber.**
- **Compliance checked these items:**
- **1. D13-42-13 Ho 4s, Stab. Control Cable**
- **Additional Annual Inspection required**

**I certify that this aircraft has been inspected in accordance with an Annual Inspection and was determined to be in airworthy condition.**

*Matthew L. Miller*  
**Matthew L. Miller AP2780179 IA**

**ENGINE LOG**

**March 24, 2016 N531A Hobbs Time 1525.4  
WORK ORDER # 20712**

**Changed oil and filter cut filter open inspected, no metal found. Serviced engine with 12 quarts of Aeroshell 15W-50 detergent oil. Ran up ground operational check, leak check normal.**

**Mark Pfunke 129529515 AP.**

*Mark Pfunke*  
**SYREK-MEE AVIATION, INC.  
OLD BRIDGE AIRPORT, HANGER AAI  
182 PENSION RD, ENGLISHTOWN NJ 07726**

Registration No. \_\_\_\_\_

once

L V AVIONICS                      600 HAYDEN CIRCLE,                      ALLENTOWN PA 18109  
CRS J6MR736X                      PH: 610 264 1430                      Hobbs: WO # 1919  
N531A Piper s/n 32-57160

- Installed repaired co-pilot Airspeed indicator p/n 8125B.794 s/n 174652 and performed pitot/static leak test. System returned to service. Installed IPAD mount and goose neck assembly to center floor panel using 6061 aluminum block and .092 2024 T-3 aluminum. Secured block using MS hardware and AN rivets in reference to the acceptable procedures of the AC43:13-1B and 2B. Installation of the IPAD holder and mount considered a minor alteration. (Secured on existing center inspection cover) No structural changes to the existing airframe. Michael Ionata *[Signature]* Date : 9/25/15

- - - Date: 3/23/2016 Aircraft: N531A. Type: PA-32R-301T; S/N: 32-57160; Hobbs- 1524 40

1. Installed new Michelin Air 600-6 8 ply tire p/n 070-317-0 s/n: 3340S00056 using new Michelin Air Stop tube p/n. 092-500-0. Torqued wheel hardware to 150 in lbs. Inflated right tire to 38 PSI and reinstalled wheel on aircraft  
END

Three Wing Aviation Group, LLC 400 Great Meadow Rd Stratford, CT 06615

This aircraft, airframe, engine or appliance identified was repaired and inspected in accordance with current regulations of the FAA and is approved for return to service. Shop Order MA-16-3398.

*[Signature]*  
Michael T. Gavaghan A&P 3473342 JA

3-23-2016

ATA FOR TRAINING USE ONLY





25080  
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35000  
40000  
45000  
50000

11104  
8885  
7041  
5538  
4355  
3425

N/A  
7

13  
O

N531A Hobbs: 1328.4 6-26-2014  
R&R Nose and Right Main Tire W/ New Michelin Air  
5.00x5 and 6.00x6 respectively. Serviced to proper  
pressure per P.O.H.  
Ryan McFadden *Asp 5-11-2014 Ryan Miller*

Air Mods and Repair, Inc.  
Trenton-Robbinsville Airport (N87)  
Factory Authorized Mooney Service Center

N531A 10-17-14 Hobbs: 1362.2 ACTT: 1362.2 Since last insp: 129.9

- C/W Annual inspection & servicing IAW Piper inspection forms 230-2047 and requirements of FAR 43 Appendix D.
- Installed new, all 66-6200 Brake linings, NG wheel bearings 08125 & 08231, Michelin 6004, tire J.M.L.C. Gasolator seal M628775-043, Lanar Alternator Inoperative Switch, 28V, P/N A-00258. Serviced Landing Gear Reservoir. Tightened Autopilot elevator brake cable. Repaired NG up-stop Strutbar.
- Compliance checked for biennially 2013-2014

I certify that this aircraft has been inspected in accordance with an Annual Inspection and was determined to be in airworthy condition.

Matthew L. Miller  
AIP2780179 1A *Matthew L. Miller*

No. \_\_\_\_\_

Air Mods and Repair, Inc.  
Trenton-Robbinsville Airport (N87)  
Factory Authorized Mooney Service Center

N531A 2-10-15 ACTT: 1388.9 Hobbs: 1388.9

- R&R propeller gov. for repair by Sensenich Propeller Service. See Sensenich W/O L26416.
- Replaced Cyl. # 5 ECT probe w/ new Alcor P# M-111
- Replaced TIT probe w/ new KS Avionics P# A002CT
- Run, leak and ops check sat.

*Matthew L. Miller*  
Matthew L. Miller  
2780179 A&P

No. \_\_\_\_\_

AIRCRAFT LOG

Aircraft Time

Recorder

Altitude	Pressure HG	Tol. +/- ft	Altimeter
-1000	31.018	20	0
0	29.921	20	+10
500	29.385	20	+15
1000	28.856	20	+10
1500	28.335	25	+20
2000	27.821	30	+20
3000	26.817	30	+20
4000	25.842	35	+20
6000	23.978	40	+5
8000	22.225	60	0
10000	20.577	80	0
12000	19.029	90	0
14000	17.577	100	15
16000	16.216	110	+15
18000	14.942	120	20
20000	13.750	130	20
22000	12.636	140	20
25000	11.104	155	N/A
30000	8.885	180	N/A
35000	7.041	205	
40000	5.538	230	
45000	4.355	255	
50000	3.425	280	

Altitude	Pressure HG	Tol. +/- ft	Altimeter
-1000	31.018	20	0
0	29.921	20	+10
500	29.385	20	+10
1000	28.856	20	+10
1500	28.335	25	+20
2000	27.821	30	+20
3000	26.817	30	+20
4000	25.842	35	+20
6000	23.978	40	+5
8000	22.225	60	0
10000	20.577	80	0
12000	19.029	90	0
14000	17.577	100	15
16000	16.216	110	+15
18000	14.942	120	20
20000	13.750	130	20
22000	12.636	140	20
25000	11.104	155	N/A
30000	8.885	180	N/A
35000	7.041	205	
40000	5.538	230	
45000	4.355	255	
50000	3.425	280	

ALT PART NUMBER: 5934PD-3  
 SERIAL NUMBER: 411015  
 MANUFACTURE: 4.1.13  
 POSITION: 41 DATE: 10/30/13  
 CRS#16MR763X NH 531A

Altitude	Pressure HG	Tol. +/- ft	Altimeter
-1000	31.018	20	0
0	29.921	20	+10
500	29.385	20	+10
1000	28.856	20	+10
1500	28.335	25	+20
2000	27.821	30	10
3000	26.817	30	30
4000	25.842	35	20
6000	23.978	40	10
8000	22.225	60	10
10000	20.577	80	10
12000	19.029	90	0
14000	17.577	100	+10
16000	16.216	110	15
18000	14.942	120	20
20000	13.750	130	20
22000	12.636	140	30
25000	11.104	155	N/A
30000	8.885	180	
35000	7.041	205	
40000	5.538	230	
45000	4.355	255	
50000	3.425	280	

Altitude	Pressure HG	Tol. +/- ft	Altimeter
-1000	31.018	20	0
0	29.921	20	+10
500	29.385	20	+10
1000	28.856	20	+10
1500	28.335	25	+20
2000	27.821	30	10
3000	26.817	30	30
4000	25.842	35	20
6000	23.978	40	10
8000	22.225	60	10
10000	20.577	80	10
12000	19.029	90	0
14000	17.577	100	+10
16000	16.216	110	15
18000	14.942	120	20
20000	13.750	130	20
22000	12.636	140	30
25000	11.104	155	N/A
30000	8.885	180	
35000	7.041	205	
40000	5.538	230	
45000	4.355	255	
50000	3.425	280	

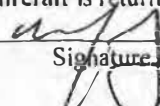
ALT PART NUMBER: 5934PD-3  
 SERIAL NUMBER: 412183  
 MANUFACTURE: 4.1.13  
 POSITION: 2 DATE: 10/30/13  
 CRS#16MR763X NH 531A

IATA FOR TRAINING USE ONLY

REF NO: 30053  
 PRESSURE  
 CRF NO:

LV Avionics certifies that the Altimeter/Altimeters, ADC, altitude reporting and static system tests required by FAR part 91:411 was performed in accordance with and comply to Appendix E of part 43. The ~~(\*)~~#1, ~~(\*)~~#2, ~~(\*)~~#3 altimeter(s) are certified for a maximum altitude of 20,000

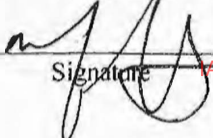
Altimeter #1:  
P/N 59340-3 SN 411015 Make Un.K  
Altimeter #2:  
P/N 59340-3 SN 412183 Make Un.K  
Altimeter #3:  
P/N — SN — Make —

The aircraft is returned to service. CRS# J6MR763X  
 Date: 10/26/03 WO # 1490  
Signature

Aircraft: Make Boeing Model PA 32R Reg # — S/N 3257160  
Customer: TERRY FRIEDMAN  
Technician Performing Test: M. J. Oates  
Date: 10/30/13

Transponder  
Position P/N S/N Manufacture  
#1 GT1327 011-004200 83760438 Garmin  
#2 — — — —


LV Avionics certifies the ~~(\*)~~#1 transponder ~~(\*)~~#2 transponder test required by FAR 91:413 were performed in accordance with and comply to Appendix F part 43. ~~(\*)~~Data test performed IAW FAR 91:411. The aircraft is returned to service. CSR# J6MR763X

 Date: 10/30/13 WO # 1490  
Signature Date Work Order

Registration No.

Certificate No.

# AIRCRAFT LOG

Date	Aircraft Time		Recorder Reading	Maintenance
	This Date	Total		
Brought Forward →				
<p><i>Air Mods and Repair, Inc.</i>  <i>Tucson-Hobbsville Airport (N87)</i>  <i>Factory Authorized Mooney Service Center</i></p> <p><b>N531A 10-5-13 ACTT: 1232.3 Hobbs: 1232.3 Since last insp: 149.4</b></p> <ul style="list-style-type: none"> <li>C/W Annual inspection &amp; servicing IAW Piper inspection form 230-2047 and requirements of FAR 43 Appendix D.</li> <li>Cleaned and painted NG fork &amp; lower strut.</li> <li>Replaced all NG bearings P/N 08125-20629 &amp; 08231-20629.</li> <li>Installed new brake linings Left side P/N 066-06200.</li> <li>Complied with Piper SB 12160 Aileron rib inspection. Next Due @ ACTT 1332</li> <li>C/W 91207 (d)1-4 ELT by Insp. &amp; ops check. Bart. Date: 7-2015</li> <li>AD compliance checked thru bi-weekly 2013-19</li> </ul> <p><b>I certify that this Airframe has been inspected in accordance with an Annual Inspection and has been determined to be in an airworthy condition.</b></p> <div style="text-align: center; margin-top: 10px;">   <b>Matthew L. Miller</b>                      AP27801791A                 </div>				
<b>Total To Carry Forward</b>				

I, V Avionics certifies that the Altimeter/Altimeters, ADF, altitude reporting and static system tests required by FAR part 91.411 was performed in accordance with and comply to Appendix E of part 43.

Registration No. \_\_\_\_\_

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and Remarks

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*Air Mods and Repair, Inc.  
Trenton-Robbinsville Airport (N87)  
Factory Authorized Mooney Service Center*

N531A 10-5-12 ACTT: 1082.9 Tach: 1082.9 Since last insp: 149.2

- C/W Annual inspection & servicing IAW Piper inspection form 230-2047 and requirements of FAR 43 Appendix D.
- Complied with Piper SB 1216B Alteraion inspection. Next Due @ ACTT 1182
- C/W 91.207 (d)1-4 ELT by insp. & ops check. Bstt. Date: 7-2015
- AD compliance checked thru bi-weekly 2012-19
- Replaced all brake pads with new.

I certify that this Aircraft has been inspected in accordance with an Annual Inspection and was determined to be in airworthy condition.

Matthew L. Miller  
2780179 A&P/IA

*Matthew L. Miller*

N531A

5-20-2013

Tach: 1171.2

R&R left Main Tire with new Michelin Air 6.00x6

Ryan R. McFadden  
3412280 A&P

*Ryan R. McFadden*

ENGINE LOG

April 4, 2013 531A Hobbs Time 1147.6  
WORK ORDER# 19976

Changed oil and filter out filter open inspected, no metal found. Serviced engine with 11 quarts of Aeroshell 15W50 oil. Ran up ground operational check, leak check normal.  
John M Bundy 80584509 AP.

*John M Bundy*

SYREK-MEE AVIATION, INC.  
OLD BRIDGE AIRPORT, HANGER A41  
182 PENNSION RD, ENGLISHTOWN NJ 07726

# RETURN TO SERVICE

Work Order No: RS072312-1 Completed: 8-27-12

Work Performed: Remove O2 Regulator S/N 636  
 from O2 Cylinder S/N 7286. Cylinder sent to  
Regualification Facility B827. Cylinder/Valve received,  
cleaned, assembled, tested and torqued per AC43.13-1B,  
Para. 9-47, and Aviation Oxygen Systems CMM 35-00-01.

*I certify that the above stated maintenance/inspection was performed in accordance with current Federal Aviation Regulations and that the article(s) listed above is/are presently airworthy and approved for return to service.*

Mario R. Diaz      A&P IA 3447632

*[Handwritten Signature]*

Attach To Log

Date

Aircraft Time

Recorder Reading

AIRCRAFT LOG

N531A    8-31-12

Reinstalled oxygen bottle after hydrostatic test & Regulator inspection. (Aerox W/O 34376 8/27/12) Ref PA-32 MM 35-10-00. NOTE: System operational & leak check not performed at this time.

Thomas J. Gray    A&P 2777905

Maintenance

IATA FOR TRAINING USE ONLY

March 2017


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and #1

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C F C C R

37

Registration No. \_\_\_\_\_

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and Remarks	Signature	Certificate No.
<p style="text-align: center;"><i>Air Mods and Repair, Inc.</i> <i>Tremont-Robbinsville Airport (NE7)</i> <i>Factory Authorized Mooney Service Center</i></p> <p style="text-align: center;"><b>N531A 8-8-12 Hobbs: 1054.6</b></p> <ul style="list-style-type: none"><li>• Replaced LH Aft fuselage skin P/N 99470-00 Due to localized ground handling damage (See FAA form 337 this date for details) R&amp;R stabilator to facilitate repair using new pivot hardware. Set trim &amp; stabilator cable tensions. Checked for proper rigging &amp; travel to factory specifications as required.</li><li>• Installed Graphic engine monitor EDM 738 IAW STC SA2586NM (See FAA form 337 this date for details) Revised weight &amp; balance, updated equipment list.</li></ul> <p><b>Thomas J. Gray</b> 2777905 A&amp;P</p> 		



**AIRCRAFT LOG**

**AIRFRAME LOG**

Maintenance

**February 23, 2012 N531A Hobbs Time 996.8**

**WORK ORDER # 19620**

Replaced both brake disks and all brake pads with new. Taxied A/C to seat new pads to disks ground operational check, leak check normal.

Richard Barnhart 2816317 AP.

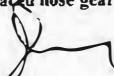
**SYREK-MEE AVIATION, INC.**

**OLD BRIDGE AIRPORT, HANGER AA1**

**182 PENSION RD, ENGLISHTOWN NJ 07726**

<b>Total To Carry Forward</b>				

Registration No. \_\_\_\_\_

and Remarks	Signature	Certificate No.
<p>N531A      Hobbs 972.6      12-20-2011</p> <p>Replaced nose gear actuator o-rings, operated system normal &amp; emergency modes satisfactory. Serviced reservoir &amp; restored access. Replaced nose gear door snubber &amp; checked rigging ok.</p> <p>Thomas J. Gray 2777905 A&amp;P </p>		

Three Wing Avionics, Inc. 400 Great Meadow Rd Stratford, CT 06615 SL5R201N  
 LOG ID# 1948 30-March-2012 REF# AV-12-1147 HOBBS 1017.2  
 N531A S/N 3257160 PIPER PA-32R-301T

Pg 1 / 1

Installed VoiceFlight Systems LLC VFS101 Speech Recognition Module SN: 1329 in accordance with STC# SA02717NY Configuration 2. Wired system per VoiceFlight Systems Installation Instructions VFS101-INSISTR2, Revision C dated 2/22/2012.

VFS101 unit was mounted to the bottom of the lower removable floor of the nose baggage compartment.

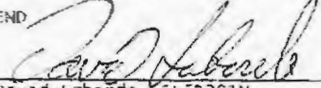
System was interfaced to the existing Garmin GNS-530W GPS, Garmin GNS-430W GPS, and Garmin GMA-340 Audio Panel. VAS (VoiceFlight Activation Switch) was installed in the pilots control wheel right side horn in the front. USB data jack was mounted in the pilots lower panel and placarded.

A 1 amp Klaxon 7274-2-1 pullable resettable circuit breaker was installed in the avionics buss location of the existing circuit breaker panel for the VFS101 and placarded.


The system was operationally tested in accordance with the installation manual.

Aircraft owner was provided with Pilots Guide (WAAS) VFS101-PMAN2, Revision B dated 5/11/2011. Updated Weight and Balance and Equipment List. Filed FAA Form 337.

END

 30 March 2012  
 David Laborde SL5R201N Date

# AIRCRAFT LOG

Date	Aircraft Time		Recorder Reading	Maintenance
	This Date	Total		
<p><i>Air Mods and Repair, Inc.</i>  <i>Trenton-Rebbsville Airport (N87)</i>  <i>Factory Authorized Mooney Service Center</i></p>				
<p><b>N531A 9-2-11 ACTT: 933.7 Tach: 933.7 Since last insp: 102.2</b></p>				
<ul style="list-style-type: none"> <li>• C/W Annual inspection &amp; servicing IAW Piper inspection form 230-2047 and requirements of FAR 43 Appendix D.</li> <li>• C/W 21.207 (d)1-4 ELT by insp. &amp; ops check. Batt. Date: 9-2012</li> <li>• AD compliance checked thru bi-weekly 2011-13</li> <li>• Replaced LH main tire w/ new Michelin Air 6.00 x 6.</li> <li>• Tightened aft baggage door lock jam nut.</li> <li>• Replaced all nose gear bearings &amp; races w/ new.</li> <li>• Loosened main gear torque link center bolts &amp; lubed.</li> <li>• Reglued RH wing root seal as required.</li> </ul>				
<p><b>I certify that this Aircraft has been inspected in accordance with an Annual Inspection and was determined to be in airworthy condition.</b></p>				
<p>Thomas J. Gray                  2777905 A&amp;P / IA</p> 				
Total To Carry Forward				

and Ren

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**Three Wing Avioni**  
 LOG ID# 1948 3C  
 N531A S/N 3257

Installed voice  
 with STC SA027.  
 Instructions V:

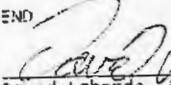
VFS101 unit was  
 removed.

System was inter  
 Garmin GMA-340  
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A 1 amp Klaxon  
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Aircraft owner  
 5/11/2011. Upda

END  
  
 David Laborde

Registration No. \_\_\_\_\_

and Remarks	Signature	Certificate No.
<p>November 12, 2010 N531A Total Time 853.9 Tach Time 853.9 WORK ORDER # 19224</p> <p>Installed customer supplied Reiff engine preheater system oil sump and cylinder bands. Revised weight and balance. Ground operational check normal.</p> <p><del>Mark Franke</del> 129529515 AP.</p> <p><del>SYREK-MEE AVIATION, INC.</del> OLD BRIDGE AIRPORT, HANGER AA1 182 PENSION RD, ENGLISHTOWN NJ 07726 732-792-0220</p>		

DATE 11/19/07 PIPER PA32R N531A  
Removed GNS530 and GNS430 systems for upgrade. Installed  
upgraded GARMIN GNS530W/GNS430W system per STC  
G.A.35



DATE

PIPER PA32R N531A

11/14/2010

ature

Certificate No.

Post installation check flight of newly upgraded GNS530W and GNS430W systems Completed as per Garmin install/upgrade manual, all systems normal.

By, *Shieldman*

Pilot Cert # 3475005

AVIONICS

LAN

WO # 4017

145 TOWER AVENUE GROTON NEW LONDON AIRPORT GROTON, CT 06340  
FAA Approved Repair Station # L4AR428X Phone: 860-446-8621 Fax: 860-446-0329

Registration #	Acft. Make / Model	Serial #	AFTT	Hour Meter
N531A	PA-32R-301T	32-57160		855.1 hrs.

- Upgraded the # 1 Garmin GNS 530W, p/n 011-01064-45, s/n 78300502, Main Software to version 3.30 in accordance with Garmin S.S.B. 0918, Rev. A, dated Aug. 2009 and the GPS Software to version 3.2 in accordance with Garmin S.S.B. 0848, Rev. B, dated Mar. 2009. Operational check satisfactory.
- Upgraded the # 2 Garmin GNS 430W, p/n 011-01060-45, s/n 96309037, Main Software to version 3.30 in accordance with Garmin S.S.B. 0918, Rev. A, dated Aug. 2009 and the GPS Software to version 3.2 in accordance with Garmin S.S.B. 0848, Rev. B, dated Mar. 2009. Operational check satisfactory.

THE ARTICLE IDENTIFIED ABOVE WAS REPAIRED AND INSPECTED IN ACCORDANCE WITH CURRENT REGULATIONS OF THE FEDERAL AVIATION ADMINISTRATION AND IS APPROVED FOR RETURN TO SERVICE. PERTINENT DETAILS OF THE REPAIR ARE AT THIS REPAIR STATION UNDER WORK ORDER NO. 4017, DATED 11/11/2010.

SIGNED

*John R. Shields*

John R. Shields

IATA FOR TRAINING USE ONLY

Shoreline Aviation, Inc.  
93 Old Colony Lane  
Marshfield, MA 02050  
781-837-8521

N# N531A

Date: 10-04-2010 Hobbs: 833.5

1) Installed two new windshield sun visor blades part # 85515-002.

*Edward J. Novak Jr.*

Edward J. Novak Jr. A+P 2832024 IA

Maintenance

Three Wing Flying Services, Inc. 400 Great Meadow Rd Stratford, CT 06615  
LOG ID# 3668 10-October-2010 WO# 1513 REF# MA-10-1513 HOBBS 842.1  
N531A S/N 325/160 PIPER PA-32R-301T

Pg 1 / 1

1. Installed new p/n 092-315-0 tube in original serviceable tire. Reassembled wheel and torqued original serviceable hardware to 150 in. lbs. Serviced tire to 38 psi and reinstalled wheel assembly on axle. Saffied axle nut with new cotter pin. END-----

*David McGee*

10/10/2010

ASP 3195124 David McGee

Date

DATE

11/10

Post i

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by, J

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DATE

Shoreline Aviation, Inc.  
93 Old Colony Lane  
Marshfield, MA 02050  
781-837-8521

Maintenance	and Remarks	N#: N531A Date: 08-10-2010	Ser. #: 3257160 Hobbs: 831.5	Eng TT: 831.5 ACTT: 831.5	Certificate No.
		<p>Completed Annual insp. per FAR 43, App D using Piper form 767-008 as a guide. C/W FAR 91.207(d) on the ELT and found no defects - ELT battery due date is 07/15. Resealed and serviced all three struts. C/W Piper SL1087 (aft wing bolt torque check and found the torque OK - this item is due ea. 100 hrs. AD 84-26-02 (R+R of eng. air filter) is due at 973.2. C/W Piper 30 day, 90 day, 6 month and 12 month special insps. O2 bottle hydro. test is due 07/12. Piper SB 1161A, para 1(a) is due at 909.2, para 1(b) is due at 1193.6. AD 2010-15-10 previously C/W per Piper SB 1197B on 7/9/09 at 809.2. Added 2 lbs. of R134 refrigerant to the air cond. system. Installed a new G243 battery, serial # G02500541. Reprinted and R+R the compass card. R+R both fuel filler opening placards. R+R nose gear down lock spring p/n 487-783 and one nose gear door spring p/n 687-924. Service shimmy damper. Cleaned and lubed the R MLG downlock hook assembly. Touched up paint in small areas along the lower trailing edge of the LH stabilator. I certify that this</p>			
		<p>airframe has been inspected in accordance with an Annual insp. and was determined to be in airworthy condition.</p>			
		<p><i>Edward J. Morahan</i> ATA 253202414</p>			



*James [Signature]*  
*[Signature]*  
*[Signature]*

<b>Total To Carry Forward</b>			

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*Josep*  
*Josep*  
*JL WSTA*

*JL WSTA*

icate No.

Shoreline Aviation, Inc.  
93 Old Colony Lane  
Marshfield, MA 02050  
781-837-8521

N#: N531A

Ser. #: 3257160

Eng TT: 809.2

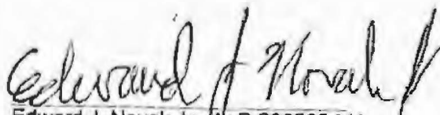
Date: 07-20-2009

Hobbs: 809.2

ACTT: 809.2

Completed Annual insp. per FAR 43, App D using Piper form 767-008 as a guide. Removed existing Artex 110-4 ELT (serial # 64562), Artex ELT antenna, and Artex 611-6013 coax. from the ELT to the antenna. Installed a new Artex ME406 (406mhz) ELT (part # 455-6603, serial # 188-10998) in the same location using the same mounting holes as the removed unit and wired this unit to the existing Artex remote switch and wiring per the ME406 installation manual part # 570-1600, rev. G dated 5/19/08. 15 digit Hex ID for this unit is ADCC4 0ABD8 002F1. A new Artex 110-773 ELT antenna was installed in the same location and manner as the removed unit. Artex coax. part # 611-6013-04 was used to connect the new antenna to the new ELT. Weight and balance and equipment list were updated. C/W FAR 91.207(d) on the ELT and found no defects - ELT battery due date is 07/15. C/W Piper SL1087 (aft wing bolt torque check and found the torque OK - this item is due ea. 100 hrs. AD 84-26-02 (R+R of eng. air filter) is due at 973.2. C/W

Piper 30 day, 90 day, 6 month and 12 month special insps. Adjusted nose gear steering clearance. C/W Piper SB 1198A by installing a new MS29513-043 o-ring at the fuel selector bowl. C/W Piper SB 1161 by visual insp. of both wheel well wing ribs per bulletin instructions - no cracks noted - dye check of this rib is due at 1193.6. C/W Piper SB 1197 by checking both yoke shafts at the u-joints per bulletin instructions - no defects were noted. Installed new 068-01100 shims at both main brakes. Added two lbs of R134 refrigerant to the air conditioning system. Installed new nose wheel bearings and races. Reglued the pilot's LH rudder pedal pad. I certify that this airframe has been inspected in accordance with an Annual insp. and was determined to be in airworthy condition.



Edward J. Novak Jr. ATP 2832024 IA

ATA FOR TRAINING USE ONLY

AIRCRAFT LOG

Registration No. \_\_\_\_\_

nce

Shoreline Aviation, Inc  
93 Old Colony Lane  
Marshfield, MA 02050  
781-837-8521

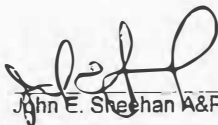
Signature

Certificate No.

N#: 531A Ser. #: 3257160 Eng TT: 785.4

Date: 06-02-2008 hobbs: 785.4 ACTT: 785.4

Completed Annual inspection per FAR 43, appendix D using Piper insp. form from the maint. manual as a guide. C.W. FAR 91.207(d) on the ELT - unit chkd OK - next due 06/09 - battery date due 06/09. Installed new tube left tire. Installed new Right main tire Michelin 6.00 x 6 8 ply tire. Installed new nose tire Michelin 5.00 x 5 6ply. Installed new nose wheel bearings p/n 08125 and races p/n 08231. I certify that this Airframe has been inspected in accordance with an Annual inspection and was determined to be in airworthy condition.



John E. Sheehan A&P166037961A

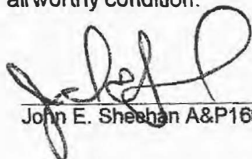
# AIRCRAFT LOG

**Shoreline Aviation, Inc**  
 93 Old Colony Lane  
 Marshfield, MA 02050  
 781-837-8521

Maintenance

**N#:** 531A      **Ser. #:** 3257160      **Eng TT:** 754.6  
**Date:** 05-25-2007      **Hobbs:** 754.6      **ACTT:** 754.6

Completed Annual inspection per FAR 43, appendix D using Piper insp. form 230-2047 as a guide. C.W. Piper S.B. 1180A R & R turbo tailpipe clamp by installing new clamp p/n 40D23255-340M. C.W. FAR 91.207(d) on the ELT - chkd OK - next due 05/08. Installed new ELT battery - next due 06/09. C.W. PiperSB 1161 insp. of wing rib - insp. no cracks noted. C.W. Piper S.L. 1087 wing bolt torque check - checked for proper torque. Reinstalled propeller after Overhaul by CRS RC2R130L. I certify that this Airframe has been inspected in accordance with an Annual inspection and was determined to be in airworthy condition.



John E. Sheehan A&P166037961A

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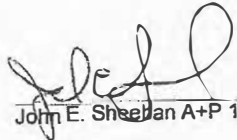


Total To Carry Forward					

Installed one new nose wheel bearing and race. Installed a new 566-342 air conditioning hose between the compressor and the firewall and a new 602-275 receiver/dryer - added 2 oz. oil to the A/C compressor - evacuated, purged and recharged the A/C with 2.5 lbs of R134 refrigerant. R+R prop. gov. (V5-6, s/n A1809J) after repairs at CRS RC2R130L - see attached 8130-3 form for details. AD 84-26-02 (R+R eng. air filter) is due at 973.2. I certify that this airframe has been inspected in accordance with an Annual inspection and was determined to be in airworthy condition.

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John E. Sheehan A+P 16603796 IA

Signature	Certificate No.

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# AIRCRAFT LOG

Transponder, mfg. by GARMIN Model # GTX 327  
 s/n 8770038 has been tested and inspected and found to comply with FAR  
 91.413. W.O.# 37447 Aci Reg. No. 531A

by Brian G. Bartlett Date 8 15 05

Griffin Avionics, Inc. Hyannis, MA 02601  
 FAA CRS# GN1R172K

Maintenance

Installed  
 -342 air  
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 RC2R1:  
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Shoreline Aviation, Inc.  
 93 Old Colony Lane  
 Marshfield, MA 02050  
 781-837-8521

N# : **N531A** Ser. #: **3257180** Eng.TT: **693.6**  
 Date: **05-01-2006** Hobbs: **693.6** ACTT: **693.6**

Completed Annual insp. per FAR 43, app. d. using Piper form 230-2047 as a guide. C/W FAR 91.207(d) on the ELT - chkd OK - next due 05/07 - battery due date is 05/07. FAR's 91.411 & 91.413 are due 09/06 & 08/07. Installed anew nose gear up bumper (part # 37970-005). Adjusted rudder cable tensions and resafited the turnbuckles. C/W Piper SB 1161 by insp. of both main gear sidebrace attach areas per bulletin instructions - no defects noted - next visual insp. due at 793.6 - next dye penetrant insp. due at 1193.6. Cleaned and lubricated both main gear downlock link assemblies and checked the torque of the main gear trunnion plate bolts. Installed a new RH fuel cap gasket. R+R oxygen bottle after hydrostatic testing - filled bottle to 1750 psi - next test due 05/09. Installed two new 164-21600 brake discs, a new Michelin Air 6.00x6 8pr LH tire and rotated the RH main tire. Removed, disassembled, cleaned and reassembled both brake wheel cylinders using new MS28775-222 o-rings - bled brakes and leak check OK.

*[Signature]*  
 John E.

Total To  
 Carry Forward





# LOGBOOK ENTRY

Name: Paul Noble  
W.O.: 4070  
Date: 12/23/04

A/C: N531A  
TT: 567.4  
AC S/N:

Removed flashing beacon from top of vertical fin and installed new flashing beacon assembly, P/N 01-0790111-02. Functional check satisfactory.

With respect to the work performed and described above, this air approved for return to service.

Signature:

Benjamin Milbery  
Eastern Air Center- Maintenance  
209 Access Rd., Norwood, MA 02062

A&P 11706404

	Signature	Certificate No.

**Shoreline Aviation, Inc.**  
93 Old Colony Lane  
Marshfield, MA 02050  
781-837-8521

N#: **N531A** Ser. #: **3257160** Eng. TT: **586.8**  
Date: **06-21-2005** Hobbs: **586.8** ACTT: **586.8**

Completed Annual insp. per FAR 43, app. d. using Piper form 230-2047 as a guide. C/W FAR 91.207(d) on the ELT - chkd OK - next due 06/06. R+R ELT battery (part #452-0130) - new due date is 05/07. FAR's 91.411 & 91.413 are due 09/06. Installed new landing gear down springs (2ea. 487-495 & 1ea. 487-483). Adjusted aileron rigging and cable tensions to proper settings and resafted the turnbuckles. Rotated LH main tire. Installed a new vacuum pump (part # AA3215CC, serial # 31291). AD 84-26-02 (R+R of eng. air filter) is due at 973.8. I certify that this airframe has been inspected in accordance with an Annual inspection and was determined to be in airworthy condition.

Thomas D. Hall A+P 2351789 IA

IATA FOR TRAINING USE ONLY

ice

N531A  
T:565.9  
2-57160

or repair

checked per  
(inter).

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# LOGBOOK ENTRY

Name: Noble  
W.O.: 1711  
Date: 12/01/2004

A/C: N531A  
TT: 559.9  
AC S/N: 32-57160

Removed GNS-430 (P/N 011-00280-00, S/N 96309037) for repair.  
Replaced with Garmin Loaner (S/N 97101726).

All systems and associated systems operationally ground checked per systems maintenance manuals. (See W.O. 1711 at Eastern Air Center).

Signature: \_\_\_\_\_

Eastern Air Center- Avionics

FRKR-394D

LOG

er	
ig	Maintenance

Total To Carry Forward		



# LOGBOOK ENTRY

Name: Noble  
W.O.: 1711  
Date: 12/08/2004

A/C: N531A  
TT: 565.9  
AC S/N: 32-57160

Removed GNS-430 Loaner (P/N 011-00280-00, S/N 97101726) for repair of Broken Knob. Replaced with Repaired Unit (S/N 96309037).

All systems and associated systems operationally ground checked per systems maintenance manuals. (See W.O. 1711 at Eastern Air Center).

Signature: \_\_\_\_\_

Eastern Air Center- Avionics

FRKR-394D



Name: P  
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## LOGBOOK ENTRY

Name: Noble  
 W.O.: 1636  
 Date: 09/03/2004

A/C: N531A  
 TT: 535.2  
 AC S/N: 32-57160

Pilots HSI inop.- Removed remote directional gyro for repair.  
 Received Unit back Overhauled (P/N 6444, S/N 815B) From S-Tec.  
 System operational check good.

GTX-327 Intermittent in flight. Sent to Garmin for repair. Received  
 with updated software and Circuit board repairs. Reinstalled unit and  
 operational checked per Gammin M.M. and FAR 91.413 Appx. F.

All systems and associated systems operationally ground checked per  
 systems maintenance manuals. (See W.O. 1636 at Eastern Air Center).

Signature: Timothy L. ... FRKR-394D  
 Eastern Air Center- Avionics

	Signature	Certificate No.

### Logbook Entry

Name: Noble A/C: N 531A  
 W.O.: 1636 TT: 544.0  
 Date: 09/29/04 AC S/N: 32-57160

I certify that this ATC transponder has been tested and found to comply  
 with FAR 91.413 and FAR 43 Appendix F. This pressure altitude  
 reporting system has been tested to 20,000 ft I.A.W. FAR 23.1325 and  
 FAR 43 Appx. E Sub Para (c).

Transponder Model: GTX 327 S/N: 83700438

Signature: [Signature]

**Eastern Air Center**

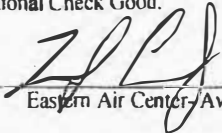
Norwood Airport  
 209 Access Road, Norwood MA 02062  
 CRS FRKR-394D

# LOGBOOK ENTRY

Name: Noble  
W.O.: 1744  
Date: 2/2/2005

A/C: N531A  
TT: 572.6  
AC S/N: 32-57160

Removed Broken ELT Antenna and replaced with new (P/N 110-324).  
System Operational Check Good.

Signature:  FRKR-394D  
Eastern Air Center-Avionics

LOG

ler ng	Maintenance

Name: Not  
W.O.: 1630  
Date: 09/00

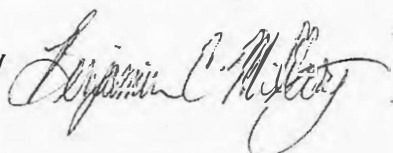
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Signature

N531A  
PA32R-301T  
S/N 32-57160

3-18-05  
Hobbs: 579.9

Removed aircraft battery and installed new  
G-243 S/N G02152496 battery. Functional  
Check satisfactory.

Benjamin C. Milbery  
11706404 A&P 

Shoreline Aviation, Inc  
 93 Old Colony Lane  
 Marshfield, MA 02050  
 781-837-8521

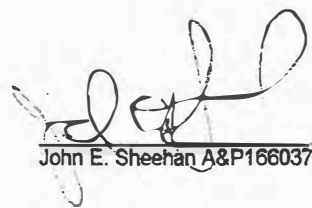
N#: **631A** Ser. #: **32-57160** Eng TT: **574.3**  
 Date: **02-24-2005** Hobbs: **574.3** ACTT: **574.3**

Installed Precise Flight inc. Speedbrake 2000 system in accordance with SCT SA00762SE and installation manual 08067, rev. C dated 04-16-01. See FAA form 337 dated 02-24-2005 for more info. Weight and balance and equipment list updated. Installed Piper cabin heater improvement kit p/n **767-333** IAW instructions supplied with kit.

aintenance

Signature	Certificate No.

Piper S.L. 1084



John E. Sheehan A&P166037961A

**Logbook Entry**

Name: Paul Noble A/C: N 531A  
 W.O.: 1534 TT: 481.4  
 Date: 04/19/04 AC S/N: 32-57160

The ATC transponder test and inspections required by FAR 91.413 were performed and found to comply with FAR 43 Appendix E.

Transponder Model: GTX 327 S/N: 83700438

Signature: [Signature]

**Eastern Air Center**

Norwood Airport

200 Access Road, Norwood MA 02062

CRS FRKR-394D

**Logbook Entry**

Name: Paul Noble A/C: N 531A  
 W.O.: 1534 TT: 481.4  
 Date: 04/19/04 AC S/N: 32-57160

I certify that this altimeter, altitude reporting and static pressure system has been tested and found to comply with FAR 91.411, FAR 91.217, and FAR Part 43 Appendix E. This altimeter has been tested to 2000 ft.

Altimeter Model: 5934 PD-3 S/N: 411015

Signature: [Signature]

**Eastern Air Center**

Norwood Airport

200 Access Road, Norwood MA 02062

CRS FRKR-394D

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Shoreline Aviation Inc.  
93 Old Colony Lane  
Marshfield, MA., 02050  
1-781-837-8521

N#: 531A ser.#: 3267180 Eng.TT: 473.8  
Date: 04-01-2004 hobbs: 473.8 ACTT: 473.8

Maintenance

Completed Annual Inspection his date. I/A/W FAR 43 appendix D and piper inspection form 230-2047 as a guide. C/W SB 1139 control yoke inspection ok. Repaired cracked engine baffle. Tightened seeping brake line at union. Cleaned up and installed new o-rings on both left and right brake assy. Bleed brakes, adjusted aileron cable tension. replaced nose wheel bearings and races. cleaned and repacked main wheel bearings. Replaced central air filter with new D9-18-1. C/W FAR 91.207(d) on ELT. ELT battery due 3-05. FAR 91.411&413 due 5-05. C/W AD 84-26 -02 new engine air filter installed. All ADs checked and C/W thru 2004 -07. I certify that this Airframe has been inspected in accordance with an Annual inspection and was determined to be in airworthy condition.

*Thomas D. Hall*  
Thomas D. Hall A&P 2351789 IA

Shoreline Aviation, Inc.  
93 Old Colony Lane  
Marshfield, MA 02050  
781-837-8521

N#: 531A  
Date: 02-

Installe  
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balance  
improvei

*John E.*  
John E.

N#: N531A  
Date: 05-24-2004 Hobbs: 487.9

Complied with part II of Piper SB 1139A by installing clips on control yokes per bulletin instructions - part I of this bulletin was previously completed 4/1/04. No further action is required for this Service Bulletin.

AD 2004-14-12

Name: Pa  
W.O.:  
Date: O

I certify that  
been tested ;  
Part 43 App  
Altmet

Total To Carry Forward	

*Edward J. Novak Jr.*  
Edward J. Novak Jr. A+P 22445893 IA

IATA FOR TRAINING USE ONLY

reporting  
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.411, FAR  
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00 ft

415183

Hobbs

361.4

N 531A  
Aircraft Records

The ATC transponder test and inspections required  
by FAR 91.413 were performed this date and  
found to comply with FAR 43 Appendix F

Date: 05/26/05

Model# 011-00490-00

S/N R3700432

Signature [Signature]

Eastern Air Center

209 Access Road

Norwood Airport

Norwood, MA 02062

(800) 370-8680

CRS FRKR 394D

Form EAC A-6 Revised 2/2/99

Hobbs

361.4

Signature

Certificate No.

[Signature]  
Scott W. Taylor  
A+P 2660779

#: N531A

Date: 08-05-2003 Hobbs: 404.5

- 1) Complied with Piper Vendor Service Publication 155 (VSP -155) by installing two new main gear actuating cylinders (part # 558-010), Left serial # 316, Right serial # 320.
- 2) Installed a new landing gear hydraulic power pack pressure switch (part # 587-847), serial # C036855.
- 3) Function and leak check landing gear OK.

Shoreline Aviation, Inc.  
93 Old Colony Lane  
Marshfield, MA 02050  
781-837-8521

N 531A

Aircraft Records

I certify that this altimeter, altitude reporting and static pressure system has been tested and found to comply with FAR 91.411, FAR 91.217 and FAR Part 43 Appendix E. This altimeter has been tested to 20,000 ft

Date: 05/06/03

Altimeter model 59349-3 S/N 415183

Signature [Signature]

Eastern Air Center  
209 Access Road  
Norwood Airport  
Norwood, MA 02062  
CRS FRKR 394D  
Form EAC A-5 Revised 2/2/99

HOBBS 361.4

N 531A

Aircraft Records

I certify that this altimeter, altitude reporting and static pressure system has been tested and found to comply with FAR 91.411, FAR 91.217 and FAR Part 43 Appendix E. This altimeter has been tested to 20,000 ft

Date: 05/06/03

Altimeter model 59349-3 S/N 415183

Signature [Signature]

Eastern Air Center  
209 Access Road  
Norwood Airport  
Norwood, MA 02062  
CRS FRKR 394D  
Form EAC A-5 Revised 2/2/99

HOBBS

361.4

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Form E

Shoreline Aviation, Inc.  
93 Old Colony Lane  
Marshfield, MA 02050  
781-837-8521

N#: N531A

Date: 04-15-2003 Hobbs: 350.1

- 1) Reinstalled oxygen bottle after hydrostatic testing. Refilled to 1800 psi with Aviator's Breathing Oxygen. Hydrostatic retest next due 03/06.
- 2) Disassembled both main wheel brakes, cleaned brake piston bores and outer diameter of the brake pistons, reinstalled brakes - function and leak check normal.

  
Edward J. Novak Jr. A+P 22445833 IA

Signature

Certificate No.



Shoreline Aviation, Inc.  
 93 Old Colony Lane  
 Marshfield, MA 02050  
 781-837-8521



N# : N531A      Ser. # : 3257160      Eng.TT: 333.6  
 Date: 03-07-2003      Hobbs: 333.6      ACTT: 333.6

Completed Annual insp. per FAR 43, appendix D using Piper form 230-2047 as a guide. Engine (TIO-540-AH1A, s/n L-10619-61A) R+R for Lycoming SB 552 - see engine log for details. Engine mount modified per Piper SB 1092A by adding bracket 104642-002 per bulletin instructions - no further action is req'd. Installed Piper oil cooler replacement kit p/n 767-332 per Piper SL 1043 - winterization plates for the oil coolers are no longer req'd. Installed 3 new tires (mains GYFCIII 6.00x6 8pr, nose GYFSII 5.00x5 6pr). R+R R fuel cap gasket p/n 462-056. AD 84-26-02 is due at 500.0. C/W FAR 91.207(d) on the ELT - chkd. OK - next due 03/04 - new ELT batt. installed (452-0130) new due date is 03/05. FAR's 91.411 & 91.413 are out of date. I certify that this airframe has been inspected in accordance with an Annual inspection and was determined to be in airworthy condition.

*John E. Sheehan*

John E. Sheehan A+P 16603796 IA

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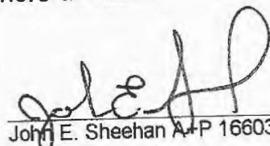
Registration No. \_\_\_\_\_

and Remarks	Signature	Certificate No.																								
1) Engine reinstalled in N531A, s/n 3257160 per Piper Maintenance manual after compliance with AD 2002-04-51 (Lycoming SB 550) at the Lycoming Factory. All engine components were reinstalled in "as removed" condition. AD 2002-04-51 considered COMPLETE. See engine log for more details.																										

Shoreline Aviation, Inc.  
93 Old Colony Lane  
Marshfield, MA 02050  
781-837-8521

N#: **N531A** Ser. #: **3257160** Eng.TT: **268.2**  
Date: **05-09-2002** Hobbs: **268.2** ACTT: **268.2**

1) Engine reinstalled in N531A, s/n 3257160 per Piper Maintenance manual after compliance with AD 2002-04-51 (Lycoming SB 550) at the Lycoming Factory. All engine components were reinstalled in "as removed" condition. AD 2002-04-51 considered COMPLETE. See engine log for more details.

  
John E. Sheehan A+P 16603796 IA

# AIRCRAFT LOG

Airframe A/C REG: <u>N531A</u>	<b>LOG BOOK ENTRY</b>	Page 1 of 1 A/C S/N: <u>3257160</u>
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DATE: <u>01/16/2002</u>	A/C TOTAL TIME:	HOUR METER: <u>260.4</u>	
W/O NO: <u>2674</u>	ENGINE TOTAL TIME	S.M.O.H.	

1. Removed S-Tec GPSS unit P/N 03976 S/N 620A and installed warranty exchange unit S/N 884B. See S-Tec WO# 282520 for further information. Operational check satisfactory.
2. AD2001-23-17 Garmin International does not apply to GNS-430 P/N 011-00280-00 per unit S/N 96309037.

- END -

Maintenance Release

The Aircraft Airframe, Engine, Propeller Or Appliance Identified Above Was Repaired And Inspected In Accordance With Current Regulations Of The Federal Aviation Administration And Is Approved For Return To Service For The Work Performed. Permanent Records Of The Repair Are To Be Filed At This Repair Station Under:

W/O# 2674      Date: 01/16/2002      Signed: [Signature]

**Columbia Air Services, Inc.**

Groton-New London Airport Groton, CT 06340 FAA Certified Repair Station # S05R204N

and R

aintenance

Airframe

# LOG BOOK ENTRY

Page 1 of 1

A/C REG: N531A

A/C S/N: 3257160

DATE: 12/07/2001

A/C TOTAL TIME:

HOUR METER: 247.0

W/O NO: 2582

ENGINE TOTAL TIME

S.M.O.H.

1. Complied with Garmin SB# 0115 and SB# 0107 on GNS-530 P/N 011-00550-00 S/N 78300502. Operational check satisfactory.
2. Complied with Garmin SB# 0116 and SB# 0107 on GNS-430 P/N 011-00280-00 S/N 96309037. Operational check satisfactory.

- END -

Maintenance Release

The Aircraft Airframe, Engine, Propeller Or Appliance Identified Above Was Repaired And Inspected In Accordance With Current Regulations Of The Federal Aviation Administration And Is Approved For Return To Service For The Work Performed. Permanent Records Of The Repair Are On File At This Repair Station Under:

W/O# 2582 Date: 12/07/2001 Signed: [Signature]

**Columbia Air Services, Inc.**

Groton-New London Airport Groton, CT 06340 FAA Certified Repair Station # S035R204N

: 260.2

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Shoreline Aviation, Inc.  
93 Old Colony Lane  
Marshfield, MA 02050  
781-837-8521

N#: N531A

Date: 09-05-2001 Hobbs: 211.1

Complied with Piper Service Bulletin 1081 by inspecting Horizon  
Instrument pointers per Bulletin instructions - no defects noted.

Maintenance

Shoreline Aviation, Inc.  
93 Old Colony Lane  
Marshfield, MA 02050  
781-837-8521

*Edward J. Novak Jr.*

Edward J. Novak Jr. A+P22445833 IA

N#: N531A

Ser. #: 3267160

Eng. TT: 250.2

Date: 12-20-2001

Hobbs: 250.2

ACTT: 250.2

Completed Annual inspection per FAR 43, App. D using Piper form 230  
-2047 as a guide. Installed a new center seats support panel p/n 37829  
-800. C/W Piper Service Letter 1033 by replacing air conditioning  
condensor hose per Letter instructions - serviced system with 2 lbs.  
R134 refrigerant. C/W FAR 91.207(d) on the ELT - chkd. OK - next due  
12/02 - ELT batt. due 07/02. AD 84-26-02 is due on the engine air filter  
at 500 hrs. FAR's 91.411 and 91.413 are due 07/02. Retensioned  
alternator and air conditioning drive belts. I certify that this airframe has  
been inspected in accordance with an Annual inspection and was  
determined to be in airworthy condition.

Total To Carry Forward	

*Edward J. Novak Jr.*  
Edward J. Novak Jr. A+P 22445833 IA

IATA FOR TRAINING USE ONLY

Registration No. \_\_\_\_\_

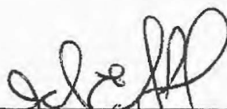
and Remarks	Signature	Certificate No.

**Shoreline Aviation Inc.**  
93 Old Colony Lane  
Marshfield, MA 02050  
781-837-8521

**N#: N531A**

**Date: 06-29-2001 Hobbs: 172.6**

- 1) Complied with Piper Service Bulletin 1049 by installing forward baffle support bracket kit p/n 766-684.
- 2) Complied with Piper Service Letter 1032 by installing new LH and RH outboard fuel quantity sender units p/n's 686-202 (Left) and 686-203 (Right). LH s/n installed 1275, removed s/n 1167 - RH s/n installed 1341, removed s/n 1246. Function and leak check OK.



John Sheehan A+P16603796 IA

Airframe

# LOG BOOK ENTRY

Page 1 of 1

A/C REG: N531A

A/C S/N: 3257160

and

DATE: 04/06/2001

A/C TOTAL TIME:

HOUR METER: 149.7

W/O NO: 1838

ENGINE TOTAL TIME


S.M.O.H.

1. Removed and reinstalled repaired Autopilot annunciator P/N 01188-1P S/N 538B. See S-Tec WO# 22856 for further information. Operational check satisfactory.

- END -

Maintenance Release

The Aircraft Airframe, Engine, Propeller Or Appliance Identified Above Was Repaired And Inspected In Accordance With Current Regulations Of The Federal Aviation Administration And Is Approved For Return To Service For The Work Performed. Permanent Records Of The Repair Are To Be Maintained At This Repair Station Under:

W/O# 1838 Date: 04.06.2001 Signed: 

**Columbia Air Services, Inc.**

Groton-New London Airport Groton, CT 06340 FAA Certified Repair Station # S05R204N

Airframe

# LOG BOOK ENTRY

Page 1 of 1

A/C REG: N531A

A/C S/N: 3257160

DATE: 04/06/2001

A/C TOTAL TIME:

HR METER: 149.7

W/O NO: 1838

ENGINE TOTAL TIME

S.M.O.H.

1. Installed STEC GPSS system consisting of the switch P/N 03975 S/N 568 and remote box P/N 03976 S/N 620A. Operational check satisfactory.

- END -

Maintenance Release  
The Aircraft Airframe, Engine, Propeller Or Appliance Identified Above Was Repaired And Inspected In Accordance With Current Regulations Of The Federal Aviation Administration And Is Approved For Return To Service For The Work Performed. Permanent Records Of The Repair Are On File At This Repair Station Under:

W/O# 1838 Date: 04/06/2001 Signed: 

**Columbia Air Services, Inc.**

Groton-New London Airport Groton, CT 06340 FAA Certified Repair Station # S135R204N



Airframe

## LOG BOOK ENTRY

Page 1 of 1

A/C REG: N531AA/C S/N: 3257160DATE: 03/30/2001

A/C TOTAL TIME:

HOUR METER: 149.7W/O NO: 1794

ENGINE TOTAL TIME

S.M.O.H.

1. Installed B.F.Goodrich WX-500 system consisting of the processor P/N 805-11500-001 S/N JDP03102935 and the NY163 antenna P/N 805-10930-001 S/N JCA02106461. See FAA Form337 dated 3-30-2001 for further information. Operational check satisfactory.
2. Installed B.F.Goodrich SkyWatch system consisting of the processor P/N 805-10800-001 S/N SKY03102396, NY164 antenna P/N 805-10890-001 S/N SKA03102568 and the MD26-28 inverter S/N B21626. See FAA Form337 dated 3-30-2001 for further information. Operational check satisfactory.
3. Complied with Garmin SB# 0106 and SB# 0021 on GNS-530 P/N 011-00550-00 S/N 78300502. Operational check satisfactory.
4. Complied with Garmin SB# 0021 and SB# 0105 on GNS-430 P/N 011-00280-00 S/N 96309037. Operational check satisfactory.

- END -

## Maintenance Release

The Aircraft Airframe, Engine, Propeller Or Appliance Identified Above Was Repaired And Inspected In Accordance With Current Regulations Of The Federal Aviation Administration And Is Approved For Return To Service For The Work Performed. Permanent Records Of The Repair Are To Be Kept At This Repair Station Under:

W/O# 1794Date: 03/30/2001

Signed:

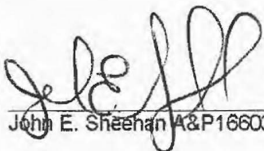
Columbia Air Services, Inc.

Groton-New London Airport Groton, CT 06340 FAA Certified Repair Station # S05R204N

Shoreline Aviation Inc.  
93 Old Colony Lane  
Marshfield, MA 02050  
781-837-8521

N#: 531A Ser. #: 3257160 Eng.TT: 122.3  
Date: 12-05-2000 hobbs: 122.3 ACTT: 122.3

Completed Annual insp. in accordance with FAR 43, App. D using Piper insp. form p.n. 230-2047 as a guide. C.W. FAR 91.207(d) on ELT - checked OK - next due 12/01. ELT battery due July 2002. Installed new air conditioning compressor p.n. 100821-003 s.n. 1842401980 ( s.n. removed unit 1841801980). Serviced air cond. IAW Piper PA32R -301T Maint. Manual. I certify that this Airframe has been inspected in accordance with an Annual insp. and was determined to be in airworthy condition.



John E. Sheehan A&P166037961A

Signature

Certificate No.

# AIRCRAFT LOG

Date	Aircraft Time		Recorder Reading	Maintenance
	This Date	Total		
	Brought Forward →			<b>Shoreline Aviation Inc</b> 93 Old Colony Lane Marshfield, MA 02050 781-637-8521
Total To Carry Forward				

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Registration No. N531A

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and Remarks

Signature

Certificate No.

The ATC Transponder Tests and Inspections required by FAR 91.413 were performed this date and found to comply with FAR 43, Appendix F.  
ATC Transponder:

1. Make GARMIN Model GTX 327 S/N 83700438
2. Make N/A Model N/A S/N N/A

Details of this inspection are on file at this facility under

S/N 3257160 Date 6/20/2000

Q.A. Inspector



K.S. MC GLOTHLIN  
THE NEW PIPER AIRCRAFT, INC.  
VERO BEACH, FLORIDA

THE AUTOMATIC PRESSURE ALTITUDE  
REPORTING EQUIPMENT TEST REQUIRED BY  
FAR PART 91.217 HAVE BEEN PERFORMED THIS

DATE: 6/21/00 SIGNED:

  
K.S. MC GLOTHLIN

### AIRCRAFT LOG

Date	Aircraft Time		Recorder Reading	Maintenance
	This Date	Total		
JUL 19 2000	Brought Forward →	6.3	I HAVE INSPECTED THIS AIRCRAFT AND ISSUED A STANDARD AIRWORTHINESS CERTIFICATE	
			DATED <u>JUL 19 2000</u> <u>1/AVW</u> FAR 21.183(g) PER <u>21272</u> <del>_____</del> FAA DOA 50-1 K.S. MC GLOTHLIN	
			THE ALTIMETER AND STATIC SYSTEM TEST REQUIRED BY FAR PART 91.411 HAVE BEEN PERFORMED. THE ALTIMETER(S) HAVE BEEN TESTED TO <u>20,000</u> FT. ONLY <u>2/16/00</u> IN <u>2/17/00</u>	
			SIGNED <del>_____</del> DATE <u>JUL 19 2000</u> K.S. MC GLOTHLIN	
			<div style="border: 1px solid black; padding: 5px; margin: 5px 0;">                         The ELF is installed per FAR 91.207. Battery replacement date <u>7/3002</u>  <del>_____</del>                          D.O.A. No. 50-1                          The New Piper Aircraft, Inc.                     </div>	
Total To Carry Forward		6.3		

## COMPLIANCE WITH MANUFACTURER'S SERVICE BULLETINS AND LETTERS

Bulletin or Letter No.	Subject and Remarks	Time on Aircraft	Date of Compliance	Signature and Certificate No.
SB1049	Baffle Bracket	172.6	5/29/01	
SL 1032	Fuel Senders	172.6	5/29/01	
SB 1081	Engine Gages	211.1	9/5/01	
SL 1033	Condenser Hose	250.2	12/20/01	

Bulletin  
Letter

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## COMPLIANCE WITH FAA AIRWORTHINESS DIRECTIVES

A. D. No. and Date	Method of Compliance (See Log for Details)	Time on Aircraft	Date of Compliance	Signature and Certificate No.	A. or
AD'S THRU	2000-13 COMPLY	60.3	JUL 19 2000	DOA 50-1 <i>[Signature]</i>	
				K.S. MC GLOTHLIN	

# AIRCRAFT DESCRIPTION

Registration No. N531A

Model: PA-32R-301T Popular Name: SARATOGA II TC

Serial No.: 3257160 Type Certificate No.: A350

Colors: L0023HL L3380HL B8642HL L0322HL  
SILVER MET./DARK BLUE MET + GRAPHITE MET/CUMULUS GRAY MET.

Engine Manufacturer: LYCOMING Serial Numbers: Single L-10619-61A

Original Engine Model: TIO-540-AH1A Left \_\_\_\_\_

Right \_\_\_\_\_

Propeller Manufacturer: HARTZELL Hub or Serial Number: Single HK628B

Original Propeller Model: HC-I3YR-1RF Left \_\_\_\_\_

Right \_\_\_\_\_

## Blade Numbers

Left

Right

J45409  
J45413  
J45407

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**2000 MODEL**