# CHAPTER 10

# PARKING, MOORING, STORAGE, RTN TO SVC.

| Chapter Section Subject | Page | Date |
|---|---|---|
| 10-TITLE | | |
| * 10-Rec. of Temp. Rev. | 1 | Feb 11/00 |
| * 10-List of Eff. Pgs. | 1 | Feb 11/00 |
| * 10-Contents | 1 | Feb 11/00 |
| 10-10-00 | 201 | Jun 25/93 |
| 10-10-00 | 202 | Jun 25/93 |
| * 10-11-00 | 201 | Feb 11/00 |
| * 10-11-00 | 202 | Feb 11/00 |
| * 10-11-00 | 203 | Feb 11/00 |
| * 10-11-00 | 204 | Feb 11/00 |
| * 10-11-00 | 205 | Feb 11/00 |
| * 10-11-00 | 206 | Feb 11/00 |
| * 10-11-00 | 207 | Feb 11/00 |
| * 10-11-00 | 208 | Feb 11/00 |
| * 10-11-00 | 209 | Feb 11/00 |
| * 10-11-00 | 210 | Feb 11/00 |
| * 10-11-00 | 211 | Feb 11/00 |
| 10-12-00 | 1 | May 1/89 |
| 10-12-00 | 201 | May 1/89 |
| 10-20-00 | 201 | May 1/89 |
| 10-20-00 | 202 | May 1/89 |
| 10-20-00 | 203 | May 1/89 |

| Chapter Section Subject | Page | Date |
|---|---|---|

Insert Latest Revised Pages; Destroy Superseded or Deleted Pages.

* Asterisk indicates pages revised, added or deleted by the current revision. The portion of the text affected by the current revision is indicated by a vertical line in the outer margin of the page.

*Record of Temporary Revisions*

| Rev. No. | Date Inserted | Date Removed | Page Number | Rev. No. | Date Inserted | Date Removed | Page Number |
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## PARKING - MAINTENANCE PRACTICES

### 1. Aircraft Parking

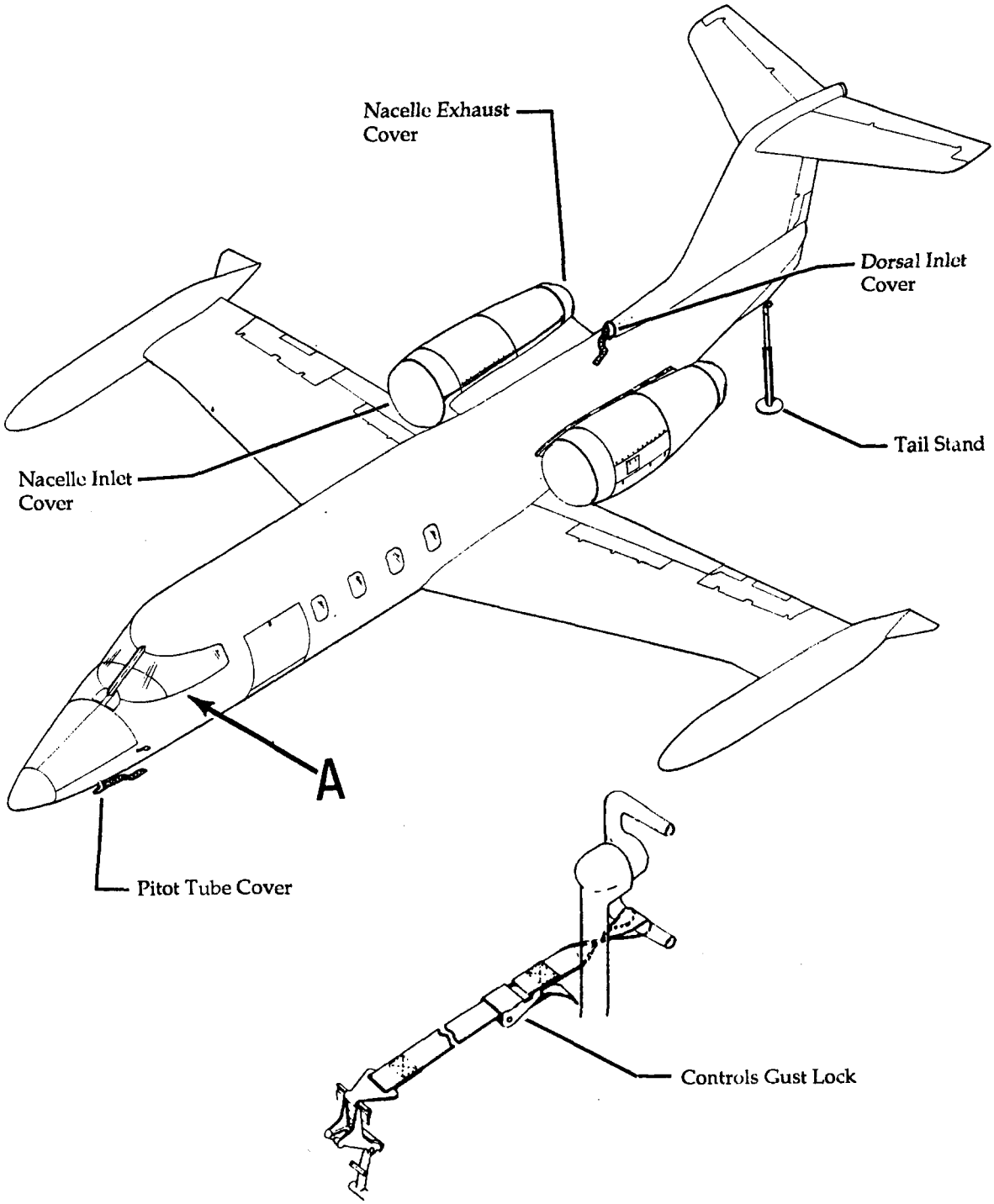
NOTE: Aircraft parking consists of chocking the wheels, installing controls gust locks, setting parking brake, and attaching grounding cable and tail stand. Under normal weather conditions, the aircraft may be parked and headed in a direction that will facilitate servicing without regard to prevailing winds. For extended parking, head aircraft into wind.

A. Tools and Equipment

NOTE: Equivalent substitutes may be used in lieu of the following:

| NAME | PART NUMBER | MANUFACTURER | USE |
|---|---|---|---|
| Nacelle Cover (LH) | Refer to Parts Catalog | Learjet Inc. | Cover nacelle. |
| Nacelle Cover (RH) | Refer to Parts Catalog | Learjet Inc. | Cover nacelle. |
| Pitot Tube Covers | Refer to Parts Catalog | Learjet Inc. | Cover pitot tubes. |
| Tail Stand | 2471016-23 | Learjet Inc. | Support tail. |
| Dorsal Inlet Cover | 2370202-7 | Learjet Inc. | Cover dorsal inlet. |
| Wheel Chocks | | Manufacture Locally | Block wheels. |
| Controls Gust Lock | 2315218-2 | Learjet Inc. | Lock control. |
| Grounding Cables | | Manufacture Locally | Grounding aircraft. |

B. General Procedure
(1) Position aircraft on level surface facing prevailing wind.
(2) Center nose wheel and set parking brake.
(3) Chock main gear wheels.
(4) Ensure that flaps and spoilers are retracted.
(5) Connect grounding cables to aircraft.
(6) Install nacelle covers, pitot tube covers, controls gust lock, and tail stand.
(7) Close and lock cabin door.




# Detail A

Aircraft Protective Cover and Parking Provisions
Figure 201

## STORAGE - MAINTENANCE PRACTICES

### 1. Tools and Equipment

NOTE: The following tools and equipment, or equivalent, are required to properly store aircraft.

| NAME | PART NUMBER | MANUFACTURER | USE |
|---|---|---|---|
| Fuel | Refer to FAA Approved Airplane Flight Manual for approved fuels | Commercially Available | Fill tanks. |
| Anti-Ice Additive | Prist | PPG Industries, Inc. | Prevent freezing. |
| Anti-Ice Additive | Quell | Frontier Aviation Chemical Inc. | Prevent freezing. |
| Wheel Chocks | | Commercially Available | Block aircraft. |
| Control Gust Locks, Nacelle Covers, Pitot Tube Covers, Tail Stand, Dorsal Fin Cover | Refer to Chapter 10-10-00 | | |
| Interior Cleaning Products | Refer to Chapter 12 | | Cleaning. |
| Exterior Cleaning Products | Refer to Chapter 12 | | Cleaning. |
| Hydraulic Fluid | Spec. MIL-H-5606 | Commercially Available | Service aircraft. |
| Protective Seat Covers | | Commercially Available | Protect seats. |
| Barrier Material | Spec. MIL-B-121, Type I, Grade C, Class I | Commercially Available | Plug holes. |
| Brake Preservative | Rust Veto 377 | E.F. Houghton and Co. Valley Forge, PA | Preserve brakes. |
| Toilet Maintenance Manual | MM-170 | Monogram Industries, Inc. Venice Division | Prepare toilet. |
| Toilet Maintenance Manual | | Alamo Co | Prepare toilet. |
| TFE 731-2-2B Engine Maintenance Manual | LMM 72-02-12 | Garrett AiResearch Phoenix, AZ | Preserve engines. |
| Tape (Black) | 471 (Alt. 472) | 3M Co. St. Paul, MN | Sealing. |

| NAME | PART NUMBER | MANUFACTURER | USE |
|---|---|---|---|
| Windshield Cover | 2311260-995 Opaque | Bombardier Aerospace<br>Learjet Inc.<br>Wichita, KS | Protect windshield. |
| RH Windshield Cover | 2311260-006 Opaque | Bombardier Aerospace<br>Learjet Inc.<br>Wichita, KS | Protect windshield. |
| Cabin Window Cover | 2000000-677 Opaque | Bombardier Aerospace<br>Learjet Inc.<br>Wichita, KS | Protect windows. |

2. **Storage**

**CAUTION: THE AIRCRAFT MUST BE IN AIRWORTHY CONDITION PRIOR TO STORAGE.**

**SEASONAL CONSIDERATION MUST BE TAKEN INTO ACCOUNT WHEN STORING AIRCRAFT. FREEZING CAN CAUSE LIQUID CONTAINERS TO BURST. HOT WEATHER CAN CAUSE FOOD TO SPOIL.**

A. The storage procedures are intended to protect the aircraft while it is not in use. The primary objective of these measures is to prevent corrosion and damage from exposure to the elements. The three types of storage are:
   (1) Flyable Storage: 7 to 30 days.
   (2) Prolonged Storage: 31 days to 6 months.
   (3) Indefinite Storage: More than 6 months.

3. **Flyable Storage (7 to 30 Days)**
   A. Parking
      (1) If possible, park aircraft in hangar. If aircraft is parked outside, position on flat surface, facing prevailing wind.
      (2) Chock main gear wheels.
      (3) Center nose wheel. DO NOT set parking brakes.
      (4) Electrically ground aircraft by installing ground cable.
   B. Fuel System
      (1) Fuel the aircraft to capacity using approved fuels with anti-ice additive mixed in normal proportions. (Refer to Chapter 12.)
      (2) Cover fuel vents with barrier material and secure with tape. Make a 0.10 inch (2.5 mm) diameter hole in barrier material to allow venting.
   C. Flight Control System
      (1) Install controls gust lock.
      (2) Ensure that flaps and spoilers are retracted.
   D. Engines
      (1) Install nacelle exhaust covers and inlet covers.
   E. Electrical Systems
      (1) Disconnect battery leads.
   F. Oxygen System
      (1) Service oxygen storage cylinder(s) to capacity and close shutoff valve. (Refer to Chapter 12.)

G. Hydraulic System
   (1) Service hydraulic accumulator to capacity. (Refer to Chapter 12.)
   (2) Service hydraulic reservoir to capacity. (Refer to Chapter 12.)
H. Emergency Air Bottle
   (1) Service emergency air bottle to capacity. (Refer to Chapter 12.)
I. Engine Fire Extinguisher System
   (1) Note fire extinguisher container pressure.
J. Windshield and Windows

**CAUTION: USE EXTREME CARE NOT TO SCRATCH OR GOUGE WINDSHIELD OR WINDOWS.**

   (1) Clean windshield and windows. (Refer to Chapter 12.)
   (2) Place a protective cover over each of the crew windshields, secure and seal around the edges with tape.
   (3) Place a window protective cover over each of the cabin windows, secure and seal around the edges with tape.
K. Landing Gear
   (1) Service landing gear shock struts. (Refer to Chapter 12.)
   (2) Apply a light coating of hydraulic fluid to the landing gear struts and landing gear actuators.
   (3) Remove brakes and apply brake preservative. Install brakes. (Refer to Chapter 32.)
   (4) Remove anti-skid wheel transducer and apply brake preservative inside hub. Install anti-skid wheel transducer. (Refer to Chapter 32.)

NOTE: Steps K.(3) and K.(4) need to be performed only if aircraft is to be stored outdoors.

L. Cabin Interior
   (1) Close window shades.
M. Cabinets and Other Storage Areas
   (1) Ensure all drinks and perishable foods are removed from aircraft.
   (2) Ensure tanks for drinking liquids are empty.
   (3) If applicable, leave oven door partially opened.
N. Exterior Fuselage
   (1) Install pitot tube covers, tail stand, and dorsal fin inlet cover.
   (2) Cut small pieces of barrier material and place over static ports. Secure and seal from atmosphere by taping around perimeter of material.
   (3) Ensure that all access doors and panels are closed and secured.
   (4) Place red tag on pedestal with the following notation: "AIRCRAFT PREPARED FOR FLYABLE STORAGE (7 TO 30 DAYS) (DATE OF STORAGE)."
   (5) Close and lock cabin door.

**4. Preparation For Service (7 to 30 Days)**
A. Interior and Exterior
   (1) Clean aircraft interior and exterior, as required. (Refer to Chapter 12.)
   (2) Remove dorsal fin inlet cover, pitot tube covers, and tail stand.
   (3) Remove tape and protective covers from windshields and windows. Store protective covers.
   (4) Remove barrier material and tape from static ports.
   (5) Remove barrier material and tape from vents.
B. Engine
   (1) Remove nacelle exhaust and inlet covers.
C. Flight Control System
   (1) Remove control gust locks.
D. Electrical System
   (1) Service and connect batteries. (Refer to Chapter 12.)

E. Oxygen System
(1) Open oxygen shutoff valve.
F. Servicing
(1) Check the following items and service if required. (Refer to Chapter 12.)
(a) Hydraulic accumulator.
(b) Hydraulic reservoir.
(c) Nose and main landing gear struts.
(d) Tires.
(e) Refrigeration system.
(f) Emergency air bottles.
(g) Alcohol anti-ice system.
(h) Oxygen system.
(i) Engine oil system.

**5. Prolonged Storage (31 Days to 6 Months)**

A. Exterior
(1) Wash and wax aircraft. (Refer to Chapter 12.)
B. Interior
(1) Clean interior. (Refer to Chapter 12.)
(2) Install protective covers over all seats.
(3) Close window shades.
C. Parking
(1) Park aircraft in hangar, if possible. If aircraft is parked outside, position on flat surface, facing prevailing wind.
(2) Chock main gear wheels.
(3) Center nose wheel. DO NOT set parking brakes.
(4) Electrically ground aircraft by installing ground cables.
D. Engines

**CAUTION: WHEN PRESERVING ENGINES, FOLLOW THE SPECIAL ENVIRONMENTAL PRESERVATION INSTRUCTIONS IN THE TFE 731-2-2B ENGINE LIGHT MAINTENANCE MANUAL, IF APPLICABLE.**

(1) Preserve engines in accordance with "Engine Preservation Instructions (Six Months or Less)" in the TFE 731-2-2B Light Maintenance Manual.

NOTE: Ensure that inlet and exhaust covers are installed after engines are preserved.

E. Fuel System
(1) Fuel the aircraft to capacity using approved fuels with anti-ice additive mixed in normal proportions. (Refer to Chapter 12.)
(2) Cover fuel vents with barrier material and secure with tape. Make a 0.10 inch (2.5 mm) diameter hole in barrier material to allow venting.
F. Electrical System
(1) Remove aircraft batteries and store. (Refer to Chapter 24.) Clean all corrosive material from battery installation area.
(2) Remove GNS-500A standby battery and store. (Refer to Chapter 24.)
(3) Remove emergency power supply battery and store. (Refer to Chapter 24.)
(4) Store all navigation and avionic emergency battery supply packs in accordance with manufacturer's procedures.
G. Oxygen System
(1) Bleed oxygen supply cylinder(s) until gage reads 1000 psi [6895 kPa]. (Refer to Chapter 12.) Ensure that oxygen supply valve is closed.

H. Alcohol Anti-ice System
   (1) Empty alcohol anti-ice system tank. (Refer to Chapter 30.)
I. Refrigeration System
   (1) Connect an external power source and operate refrigeration system every 30 days.
J. Hydraulic System
   (1) Fill hydraulic system to operational level and check for leaks. (Refer to Chapter 12.) Repair all leaks before storage. (Refer to Chapter 29.)
K. Windshield and Windows

**CAUTION: USE EXTREME CARE NOT TO SCRATCH OR GOUGE WINDSHIELD OR WINDOWS.**

   (1) Clean windshield and windows. (Refer to Chapter 12.)
   (2) Place a protective cover over each of the crew windows. Secure and seal around the edges with tape.
   (3) Place a protective cover over each of the cabin windows. Secure and seal around the edges with tape.
L. Avionic Equipment
   (1) Remove avionic equipment and store in accordance with manufacturer's recommended procedures.
M. Pitot-Static System
   (1) Tape a small piece of barrier material around pitot tube and install pitot tube cover.
   (2) Cut small pieces of barrier material and place over static ports. Secure and seal from atmosphere by taping around perimeter of material.
N. Landing Gear
   (1) Replace serviceable tires with unserviceable tires. (Refer to Chapter 32.)
   (2) Remove brakes and apply brake preservative. Install brakes. (Refer to Chapter 32.)
   (3) Remove anti-skid wheel transducer and apply brake preservative inside hub. Install anti-skid wheel transducer. (Refer to Chapter 32.)

NOTE: Steps N.(2) and N.(3) need to be performed only if aircraft is to be stored outdoors.

   (4) Lubricate landing gear strut. (Refer to Chapter 12.)
   (5) Check main and nose landing gear shock strut pressure and tire pressure every 30 days. (Refer to Chapter 12.)
   (6) After aircraft is parked for storage, apply a light coating of hydraulic fluid to the landing gear struts and landing gear actuator and cover with barrier material. Secure with tape.
   (7) Install barrier material over the wheel wells. Secure and seal from atmosphere with tape.
O. Toilet
   (1) On *Aircraft equipped with Monogram toilet*, remove toilet tank assembly and empty. Back flush tank assembly filter and disinfect. Disinfect toilet. Install toilet tank assembly. Do not precharge. The toilet and toilet tank assembly must be cleaned and disinfected to preclude bacterial growth during storage. (Refer to Monogram Toilet Maintenance Manual.)
   (2) On *Aircraft equipped with Sherwood or Alamo toilet*, follow manufacturer's instructions to pump reservoir fluid into waste tank. Empty and sanitize waste tank. Sanitize toilet. (Refer to Sherwood or Alamo Clean Flush Toilet Service Instructions Manual.)
P. Cabinets and Other Storage Areas
   (1) Ensure all drinks and perishable foods are removed from aircraft.
   (2) Ensure tanks for drinking liquids are empty.
   (3) If applicable, leave oven door partially opened.
Q. Emergency Air Bottles
   (1) Bleed emergency air bottles until gage reads 1000 psi [6895 kPa]. (Refer to Chapter 12.)

R. Engine Fire Extinguisher System
   (1) Gain access to engine fire extinguisher container.
   (2) Install a jumper wire between ground stud and cartridge insulated terminal. Attach a red tag to jumper wire with notation: "REMOVE JUMPER WIRE BEFORE STARTING ENGINE."

S. Flight Control System
   (1) Lubricate flight control system. (Refer to Chapter 12.)
   (2) Install control gust locks.
   (3) Ensure that flaps and spoilers are retracted.

T. Exterior Fuselage
   (1) Install tail stand and dorsal fin inlet cover.
   (2) Ensure that all access doors and panels are closed and secured.
   (3) Close and lock cabin door. Attach red tag to cabin door handle with the following notation: "AIRCRAFT PREPARED FOR PROLONGED STORAGE (31 DAYS TO 6 MONTHS) (DATE OF STORAGE)."

**6. Preparation For Service (31 Days to 6 Months)**

A. Engines
   (1) Prepare the engine for service in accordance with "Engine Depreservation Instructions" TFE 731-2-2B Engine Light Maintenance Manual.

B. Fuel System
   (1) Remove barrier material from vents.
   (2) Liberally drain all sumps.
   (3) Remove a pint of fuel from wing filler. Check that anti-ice additive concentration in fuel meets minimum Airplane Flight Manual requirements. (Refer to Approved Airplane Flight Manual.)

      NOTE: If anti-ice additive concentration does not meet minimums, defuel the aircraft and fuel aircraft with approved fuel mixed with anti-ice additive in normal proportions.

   (4) Fuel aircraft as required. (Refer to Chapter 12.)
   (5) Check aircraft for leaks. (Refer to Chapter 28.) Repair leaks as necessary.

C. Electrical System
   (1) Service aircraft batteries. (Refer to Chapter 12.) Install aircraft batteries. (Refer to Chapter 24.) Repair any corrosion which may have occurred in the battery installation area during storage.
   (2) Service GNS-500A standby battery (refer to Chapter 12) and install GNS-500A standby battery (refer to Chapter 24).
   (3) Service emergency power supply battery (refer to Chapter 12) and install emergency power supply battery (refer to Chapter 24).
   (4) Service and install navigation and avionic emergency battery supply packs in accordance with manufacturer's recommended procedure.

D. Oxygen System
   (1) Service oxygen system. (Refer to Chapter 12.)
   (2) Check for oxygen system leaks. Repair leaks as required. (Refer to Chapter 35.)

E. Alcohol Anti-Ice System
   (1) Service alcohol anti-ice system. (Refer to Chapter 12.)
   (2) Perform windshield alcohol anti-ice system operational check and windshield alcohol anti-ice system leak test, repair leaks, if any. (Refer to Chapter 30.)

F. Environmental Systems
   (1) Perform operational check of the cooling systems. (Refer to Chapter 21.)
   (2) Perform operational check of the pressurization system. (Refer to Chapter 21.)
   (3) Perform operational check of the heating system. (Refer to Chapter 21.)
   (4) Perform operational check of the emergency pressurization system. (Refer to Chapter 21.)

G. Hydraulic System
   (1) Check hydraulic system for leaks. Repair leaks, if any, (refer to Chapter 29) and service hydraulic reservoir if leaks are found (refer to Chapter 12).

H. Windshield and Windows
   (1) Remove tape and protective covers from windshield and windows. Store protective covers.
I. Avionic Equipment
   (1) Install all avionic equipment removed for storage. Prepare for service in accordance with manufacturer's recommended procedures.
J. Pitot-Static System
   (1) Remove pitot tube protective cover and barrier material from pitot tube.
   (2) Remove barrier material from static ports.
K. Landing Gear
   (1) Remove barrier material from landing gear struts, actuators, and wheel wells.
   (2) Clean hydraulic fluid off struts and actuators.
   (3) Lubricate landing gear. (Refer to Chapter 12.)
   (4) Remove unserviceable tires and install serviceable tires. (Refer to Chapter 32.)
   (5) Check landing gear shock strut pressure. (Refer to Chapter 12.)
   (6) Perform extension and retraction system operational check. (Refer to Chapter 32.)
L. Toilet
   (1) On *Aircraft equipped with Monogram toilet*, disinfect toilet bowl assembly and toilet tank assembly. Precharge toilet tank assembly. (Refer to Monogram Toilet Maintenance Manual.)
   (2) On *Aircraft equipped with Sherwood or Alamo toilet*, follow manufacturer's instructions to sanitize toilet and fill reservoir with mixed fluid. (Refer to Sherwood or Alamo Clean Flush Toilet Service Instructions Manual.)
M. Emergency Air Bottles
   (1) Service emergency air bottles. (Refer to Chapter 12.) Check for leaks, repair as necessary.
N. Engine Fire Extinguisher System
   (1) Remove electrical power from aircraft.
   (2) Gain access to engine fire extinguisher container.
   (3) Remove red tag and jumper wire between ground stud and fire extinguisher cartridge insulated terminal.
   (4) Restore electrical power to aircraft.
O. Flight Controls
   (1) Remove control gust locks.
   (2) Lubricate flight control system. (Refer to Chapter 12.)
   (3) Perform control cable system inspection. (Refer to Chapter 27.) Replace control cables as necessary. (Refer to Chapter 27.)
   (4) Perform aileron and aileron trim tab control systems operational check. (Refer to Chapter 27.)
   (5) Perform rudder and rudder trim tab control systems operational check. (Refer to Chapter 27.)
   (6) Perform elevator control system operational check. (Refer to Chapter 27.)
   (7) Perform operational check of horizontal stabilizer trim control system (refer to Chapter 27) and autopilot (roll, pitch, and yaw damper) servo actuators (refer to Chapter 22). Repair as necessary.
P. Exterior Fuselage
   (1) Remove tail stand and dorsal fin inlet cover.
   (2) Ensure that all red tags are removed and access doors and panels are closed and secured.
   (3) Clean and wax exterior as required. (Refer to Chapter 12.)
Q. Interior
   (1) Remove seat protective covers and clean interior as required. (Refer to Chapter 12.)

**7. Indefinite Storage (More Than 6 Months)**

A. Prepare aircraft for storage as described in step 5. Six (6) areas which require additional preparation are described in the following steps.

NOTE: All tape adhering to aircraft skin must be replaced every six (6) months.

B. Engines

**CAUTION: WHEN PRESERVING ENGINES, FOLLOW THE SPECIAL ENVIRONMENTAL PRESERVATION INSTRUCTIONS IN THE TFE 731-2-2B ENGINE LIGHT MAINTENANCE MANUAL, IF APPLICABLE.**

(1) Preserve engines in accordance with "Engine Preservation Instructions (More Than Six Months)" in the TFE 731-2-2B Engine Light Maintenance Manual.

NOTE: Ensure that inlet and exhaust covers are installed after engine is preserved.

C. Engine Fire Extinguisher System
(1) Remove engine fire extinguisher container and cartridge (refer to Chapter 26) and store in accordance with the manufacturer's recommended procedures.

D. Fuel System
(1) Liberally drain all sumps.
(2) Remove a pint of fuel from wing filler. Check that anti-ice additive concentration in fuel meets minimum Airplane Flight Manual requirements. (Refer to approved Airplane Flight Manual.)

NOTE: If anti-ice additive concentration does not meet minimums, defuel the aircraft and refuel aircraft with fuel and anti-ice additive in normal proportions.

(3) Anti-ice additive concentration shall be checked every six months and more often if the aircraft is parked outside in high temperature and high humidity environment. Anti-ice additive concentration is required to preclude bacterial growth in the fuel system.
(4) Top off fuel systems as required. (Refer to Chapter 12.)

E. Exterior Fuselage
(1) Close and lock cabin door. Attach red tag to cabin door handle with the following notation: "AIRCRAFT PREPARED FOR INDEFINITE STORAGE (MORE THAN 6 MONTHS) (DATE OF STORAGE)."

F. Landing Gear
(1) After aircraft has been stored for 12 months, remove barrier material from landing gear struts and actuators. Wipe hydraulic fluid off struts and actuators. Apply a fresh light coating of hydraulic fluid and wrap struts and actuators with new barrier material. Secure and seal with tape.
(2) Replace tape which attaches barrier material to aircraft every six months as follows:
(a) Remove tape which holds barrier material to the aircraft in the wheel well area. Clean adhesive residue from aircraft skin.
(b) Place new barrier material, as required, over wheel well area. Secure and seal with tape.

G. Windshield and Windows
(1) Replace tape which attaches protective covers to the aircraft every six months.

**CAUTION: USE EXTREME CARE NOT TO GOUGE OR SCRATCH WINDSHIELD OR WINDOWS.**

(a) Remove tape which secures window protective covers to the aircraft.
(b) Clean adhesive residue from aircraft skin.
(c) Install window protective covers as described in step 5.

H. Perform inspection, operation, and maintenance requirements on aircraft during storage and enter actions in aircraft log. (Refer to Tables 201 and 202.)

8. **Preparation For Service (More Than 6 Months)**
   A. Prepare aircraft for service as described in step 6. Two areas which require additional preparation are described in the following steps.
   B. *Engine Fire Extinguisher System*
      (1) Install engine fire extinguisher containers and cartridges. (Refer to Chapter 26.)
   C. Perform 600-hour inspection as described in Chapter 5.

**AIRCRAFT INSPECTION DURING STORAGE**

AIRCRAFT No. _____ Storage Date _____

| | At | | | Then | | |
|---|---|---|---|---|---|---|
| | 15 Days | 30 Days | 180 Days | Every 15 Days | Every 30 Days | Every 180 Days |
| Visual Damage & Corrosion | X | | | X | | |
| Cover Installation | X | | | | X | |
| Locks and Aircraft Chocked | X | | | X | | |
| Static Ports and Fuel Vents Covered | X | | | X | | |
| Windshield and Windows Covered | X | | | X | | |
| Emergency Air, Oxygen, Fire Ext., Proper Pressure | X | | | X | | |
| Hydraulic Accumulators and Reservoir | X | | | X | | |
| Tire Pressure | X | | | X | | |
| Strut Clearance | X | | | X | | |
| Fuel Balance and Leaks | X | | | X | | |
| Proper Electrical Grounding | X | | | X | | |
| Tail Stand Installed | X | | | X | | |
| Fire Extinguisher Near Aircraft | X | | | X | | |
| Covers Removed and Inspect Area for Corrosion - Reinstall Covers | X | | | | X | |
| Abnormal Deposits Removed from Aircraft Exterior | X | | | | X | |
| Check Fuel Additive (Prist) Concentration | | | X | | | X |

NOTE: If aircraft is parked outside in a high temperature and high humidity environment, check anti-ice additive concentration more often.

If aircraft is parked outside, inspect for water entrapment inside structure after rainy weather.

Anytime cabin temperature exceeds 90°F [32°C], ventilate by opening door and drawing air through.

Aircraft Inspection During Storage
Table 201

**AIRCRAFT OPERATIONAL AND MAINTENANCE REQUIREMENTS DURING STORAGE**

AIRCRAFT No. _____ Storage Date _____

| | At | Then | | | |
|---|---|---|---|---|---|
| | 15 Days | Every 15 Days | Every 30 Days | Every 90 Days | Every 360 Days |
| Water Drained from Fuel Sumps | X | X | | | |
| Rotate Tires (New contact point approximately 120 degrees from old point.) | X | X | | | |
| Air Conditioning Compressor Operation | X | | X | | |
| Engine Operated at Idle for five (5) minutes | X | X | | | |
| Lubricate Struts and Actuator Cylinder | | | | X | |
| Lubricate Aircraft | | | | | X |

Aircraft Operational and Maintenance Requirements During Storage
Table 202

# CONTROLS GUST LOCK - DESCRIPTION AND OPERATION

## 1. DESCRIPTION

A. The gust lock consists of two strap assemblies; one designed to attach to the pilot's RH rudder pedal, and the other designed to attach to the pilot's control wheel. A hook fitting attaches to the rudder pedal, a connector and buckle connect the two strap assemblies together, and a loop around the control wheel secures the wheel.

## 2. OPERATION

A. The gust lock, when properly installed, will prohibit any possible take-off or flight configuration of the control surfaces. It will deflect the rudder to hard left, the elevators to hard down, and the ailerons to hard roll left. This configuration aids in preventing accidental wind damage while the airplane is tied down, and reduces the possibility of an accidental lift-off.

## CONTROLS GUST LOCK - MAINTENANCE PRACTICES

### 1. REMOVAL/INSTALLATION

A. Remove Gust Lock (See figure 201.)

(1) Raise handle on buckle to release connector.

NOTE: The control column will move aft to neutral position when released.

(2) Remove strap assemblies from control wheel and rudder pedal and stow.

B. Install Gust Lock (See figure 201.)

(1) Place loop end of control wheel strap assembly (equipped with buckle) over LH grip of pilot's control wheel.

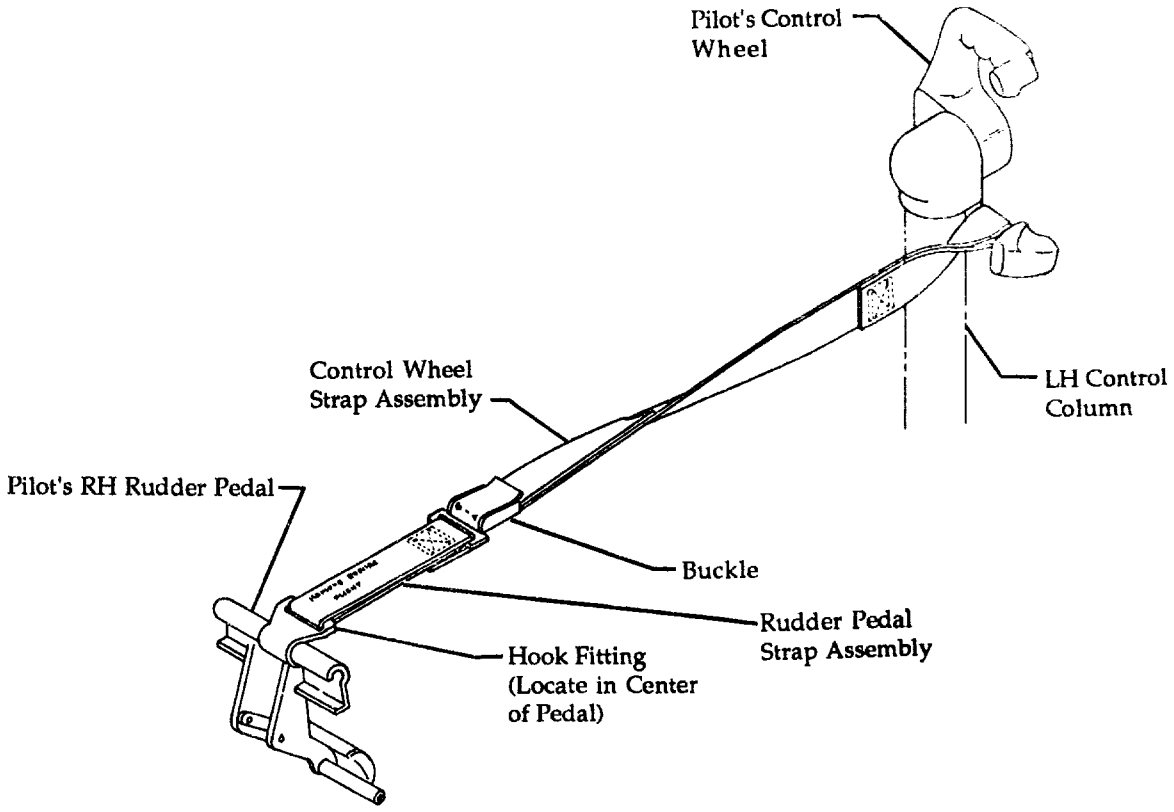
(2) Install rudder pedal strap assembly on pilot's RH rudder pedal with hook fitting located in top center of pedal.

(3) Rotate control wheel full left, and move control column full forward.

(4) Insert rudder pedal strap assembly connector into buckle.

(5) Pull, to take up slack on free end of control wheel strap assembly, until the control column is full forward and right rudder pedal is full aft.

(6) Lower handle on buckle to secure gust lock.




Gust Lock Installation
Figure 201

## 1. MOORING

### A. General

(1) Table 201 prescribes the surface conditions and wind velocities at which mooring is required.

NOTE: The aircraft must be hangared at wind velocities of 85 knots or above.

| Surface Condition | Wind Velocity |
|---|---|
| Sanded Ice<br>Wet<br>Dry | 37 knots (68.5 kph)<br>63 knots (116.7 kph)<br>80 knots (148.2 kph) |

Table 201. Mooring Requirements

### B. Tools and Equipment

NOTE: The following tools and equipment, or equivalent, are required to moor the aircraft:

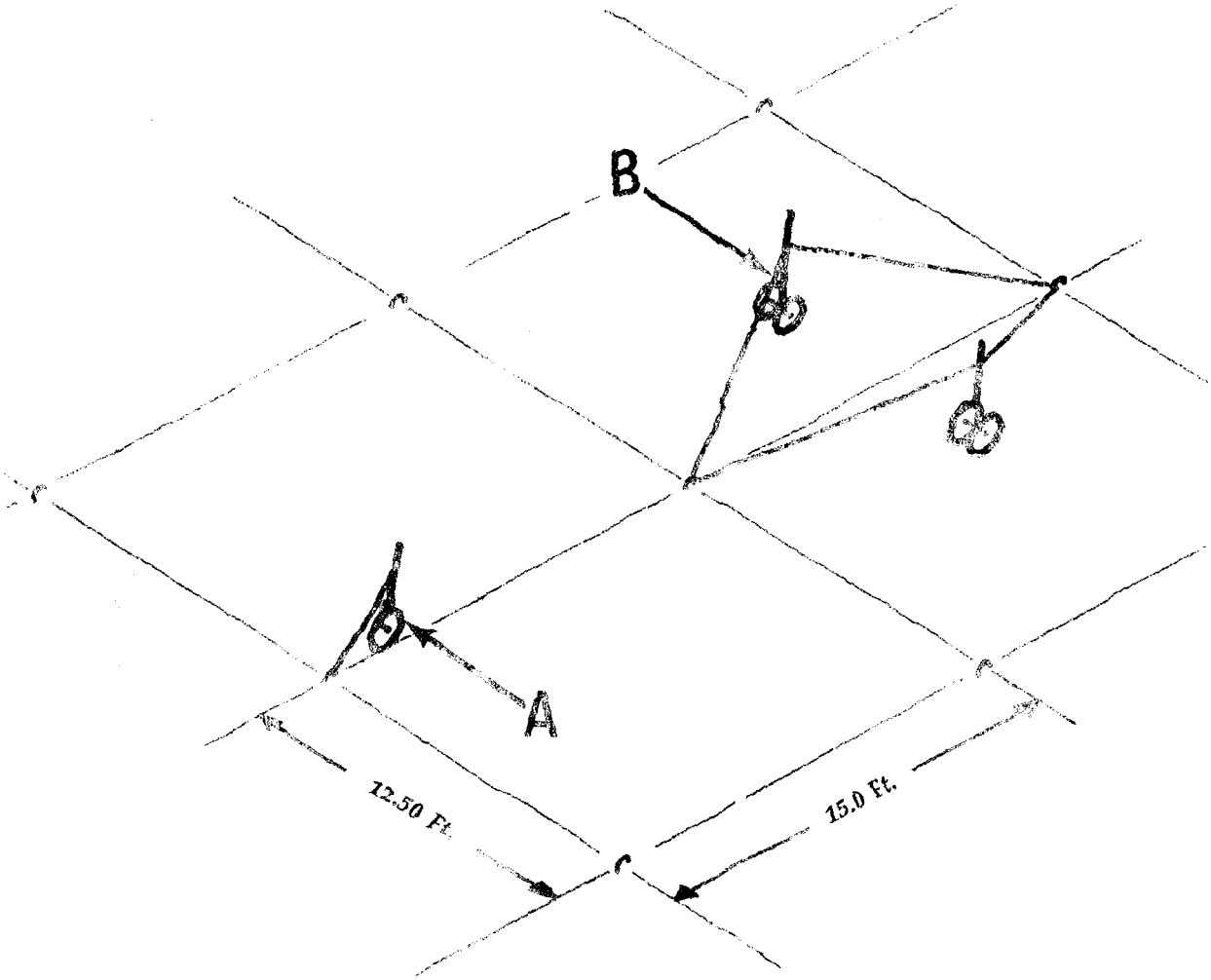
| NAME | SPECIFICATION | MANUFACTURER | USE |
|---|---|---|---|
| Poly-Propylene Ropes | 7/16 inch (1.11 cm) | Commercially Available | Landing Gear Tie-down |
| Sisal Ropes | 3/4 inch (1.91 cm) | Commercially Available | Landing Gear Tie-down |
| Cres Cables | 7/32, 5/16, 3/8, or 7/16 inch (0.56, 0.79, 0.95 or 1.11 cm) | Commercially Available | Landing Gear Tie-Down |

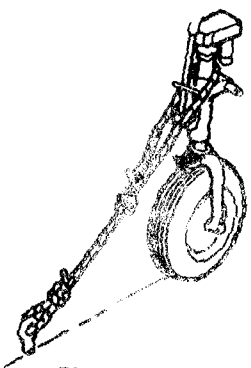
### C. Mooring Procedure (See figure 201.)

(1) Perform parking procedure. (Refer to 10-10-00.)

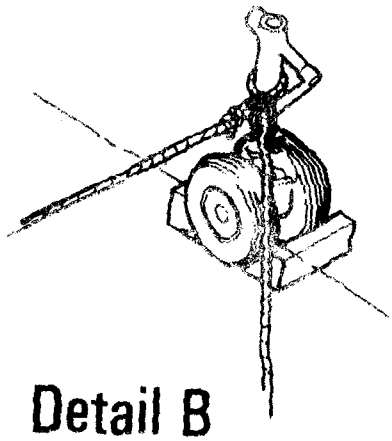
**CAUTION: ENSURE THAT TIE-DOWN ROPES OR CABLES ARE STRONG ENOUGH TO SECURE AIRCRAFT UNDER PREVAILING WIND CONDITIONS. (REFER TO TABLE 202.)**

(2) Secure landing gear to ramp using single tie-down at nose gear and dual tie-downs at main gear.



Detail A



Detail B

Aircraft Mooring
Figure 201

| Rope or Cable | | Tie-Down Capability | | |
|---|---|---|---|---|
| | | Wind Direction | | |
| Type | Size | Main Gear Side | Nose Gear Frontal | Maximum Wind Velocity |
| Poly-Propylene Rope | 7/16 in. (1.11 cm.) | X | | 50.9 knots (94.2 7 kph) |
| | | | X | 60.1 knots (111.31 kph) |
| Sisal Rope | 3/4 in. (1.91 cm.) | X | | 60.2 knots (111.49 kph) |
| | | | X | 60.3 knots (111.66 kph) |
| Cres Cable | 7/32 in. (0.56 cm.) or larger | X | | 85.0 knots (157.42 kph) |
| | | | X | 85.0 knots (157.42 kph) |

Landing Gear Tie-Down Capabilities
Table 202