

# MAULE

AEROSPACE  
TECHNOLOGY, INC.

FAA App'd: 

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Date: JUL 15 1999

## **SERVICE LETTER NO. 61**

Date: 7/8/99

**SUBJECT:** Attach Hardware for all doors.

**AIRPLANES AFFECTED:** All Maule models manufactured before 6/99.

**BACKGROUND:** The door hinge bolt has always been retained by an elastic stop nut. Recently the upper pilot's door hinge separated on a Maule M-5 in flight. The upper hinge bolt was missing after a safe landing so the exact cause of the failure is not known.

**COMPLIANCE:** It is mandatory to inspect all door hinge bolts for security next preflight inspection and all subsequent preflight inspections. Replacement of existing elastic stop nuts with castellated nuts and cotter pins is mandatory at next annual inspection.

**STATUS:** This Service Letter should be considered an early warning of a potential safety of flight problem. New production airplanes are now using castellated nuts and cotter pins.

### **ACTION TO BE TAKEN AND MATERIAL REQUIRED:**

- 1) Replace hinge nuts and bolts of all doors as follows:
  - a. Remove existing nuts and bolts on all doors if AN365 elastic stop nuts are installed and replace with the following:

The following parts are available from Maule, if required:

AN3-3	or	AN3C3 (Corrosion Resistant)	8 ea.	Bolt
AN310-3	or	AN310C3 (Corrosion Resistant)	8 ea.	Nut
AN380-2-2	or	AN381-2-2/MS24665-151 (Corrosion Resistant)	8 ea.	Cotter Pin

### **REPLACEMENT INSTRUCTIONS:**

- 1) Remove existing bolt and nut one at a time.
- 2) Lubricate new drilled bolt and inside faces of hinge brackets with LPS-3, Zep super lubricant or equivalent. Insert bolt downward.
- 3) Install castellated nut and tighten just to remove end play.
- 4) Insert cotter pin and bend tight against nut so as not to leave a sharp projection.

Note: Page 2 is the Service Letter Compliance Record Sheet and is to be completed and returned to Maule engineering records.

**ITS PERFORMANCE THAT COUNTS!**  
**2099 Georgia Hwy. 133 South~Moultrie, GA 31768**  
**Tel: 912-985-2045~Fax: 912-890-2402**

**SERVICE LETTER NO. 61**

**COMPLIANCE RECORD SHEET**

Aircraft Model \_\_\_\_\_

Aircraft Serial No. \_\_\_\_\_

Action taken (CHECK IF COMPLETED):

( ) Service Letter No. 61 is complied with.

Owner's Name \_\_\_\_\_

Owner's Address \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

Certified by \_\_\_\_\_ Title \_\_\_\_\_

Signature

Owner, A & P. IA. Etc.

Date performed \_\_\_\_\_

NOTE: If you no longer own this aircraft, please forward this information to the present owner/ operator and notify the factory of address/ ownership corrections. Include aircraft model, serial number, current owner's name and address. Corrections should be directed to factory address below.

NEW Owner's Name \_\_\_\_\_

NEW Owner's Address \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

Please mail this Compliance Record to: Maule Air, Inc. ~ Engineering Records ~ 2099 Georgia Highway 133 South ~ Moultrie, GA 31768 USA