

Maule Aircraft Corporation

SPENCE AIR BASE - MOULTREE, GEORGIA 31768 - PHONE 912/985-2045



SERVICE BULLETIN #2

15 March 1981

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Subject: Rudder Bar Assembly.

Models Affected: All M-4 and M-5 Series Aircraft.

M-4 Series: S/N 4 to 94, 1001 to 1045, 1S to 3S, 1T to 3T,
1C to 11C; M-4-210C, S/N 1001C to 1117C; M-4-220S, S/N 2001S;
M-4-220C, S/N 2001C to 2190C; M-4-180C, S/N 3001C to 3006C.

M-5 Series: M-5-220C, S/N 5001C to 5057C; M-5-210C, S/N 6001C
to 6204C; M-5-235C, S/N 7001C to 7254C; M-5-180C, S/N 8001C,
and M-5-210TC, S/N 9001C.

Compliance time: Within the next 25 hours of flight, or 60 days.
This Service Bulletin is mandatory.

Authority: This Bulletin is FAA approved.

Background: There is a possibility that the horizontal tubes of the
rudder bar may be cracked or may become cracked where "V" cluster
attaches.

Action to be taken, and instructions:

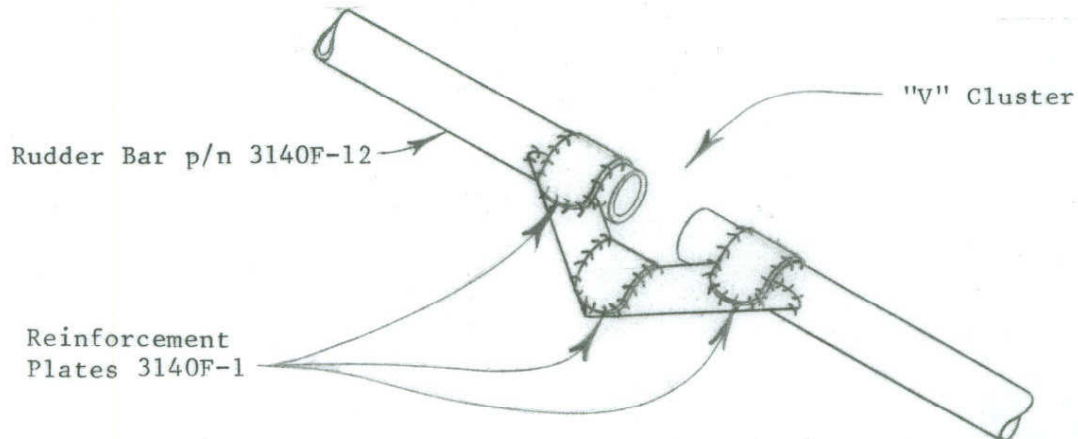
1. Remove rudder bar cover forward of control column, then
remove rudder bar.

This can be performed by the following procedure:

- a. Remove rudder cables, return spring and rudder trim cable.
 - b. Remove master brake cylinders from rudder pedals.
 - c. Remove the (6) six bolts holding rudder bar to frame, then
remove from aircraft and inspect for cracks where "V"
cluster attaches.
2. Inspect for cracks visually, if cracks are found contact
Maule Aircraft Corporation prior to further flight (phone 912-
985-2045). New modified rudder bar halve with "V" cluster P/N
3140F-12 is available upon request.
 3. If no cracks are found, reinforce rudder bar as follows:
 - a. Separate rudder bar by removing bolt in inboard co-pilot
pedal tube at cluster.
 - b. Insert a rod in horizontal tube at cluster to prevent weld
penetration buildup inside when welding new parts on.

3. (con't)

- c. Locate and weld reinforcement plates p/n 3140F-1 as shown in sketch:



- d. After welding, clean affected area and repaint.

3. Aircraft return to service:

- a. Lubricate rudder bar and reassemble the two halves.
 - b. Reverse procedures 1. a. b. & c.
 - c. Inspect installation and reinstall rudder bar cover.
4. Add statement to the aircraft log book pertaining to compliance with this service bulletin. Also, fill out the enclosed compliance record and return to Maule Aircraft Corporation as soon as possible.

Availability of parts:

The following parts are furnished with this service bulletin:

- 3 ea. reinforcement plates (p/n 3140F-1).

Effectivity date:

This service bulletin is effective upon receipt.

Maule Aircraft Corporation

SPENCE AIR BASE :: MOULTRIE, GEORGIA 31768 :: PHONE 912/985-2045



COMPLIANCE RECORD

SERVICE BULLETIN #2

DATED _____

Aircraft Model _____

Serial Number _____

Registration Number _____

The following action has been taken in respect to this Service Bulletin #2:

- NO cracks were found. Reinforcement plates p/n 3140F-1 were welded in place per Service Bulletin #2.
- CRACKS were found in rudder bar at "V" cluster. Defective part replaced by new rudder bar p/n 3140F-12.
- CRACKS were found in rudder bar at "V" cluster. Defective area(s) repaired per Maule Aircraft instructions. Also, describe on back of this sheet, cracks found and how repaired.
- I no longer own this aircraft. It was sold to:

Name _____

Address _____

City, State, Zip _____

CERTIFIED BY _____
Signature

TITLE _____
Owner, A & P, IA, etc.

DATE PERFORMED _____

In an effort to keep our mailing list current, please fill in the following:

Owner's name _____

Owner's address _____

Mail this compliance record to: Maule Aircraft Corporation
Engineering Records
Spence Field
Moultrie, GA 31768