



SERVICE BULLETIN No. 7

SUBJECT: Fuel crossover supply line located forward of and under front seats.

AIRCRAFT AFFECTED: Maule models (equipped with 20°/40° Flap Ratchet retrofitted per Service Letters #44, #46, #48 or #49); M-5-220C, Ser. No. 5001C thru 5057C; M-5-210C, Ser. No. 6001C thru 6206C; M-5-235C, Ser. No. 7001C thru 7045C, 7047C thru 7052C; M-5-180C, Ser. No. 8001C thru 8014C, 8016C thru 8019C and 8021C and includes any M-5 series airplane with this modification where the fuel crossover supply line routes between flap control handle and fuselage seat support frame in area where flap control handle travels.

COMPLIANCE: Immediate compliance is recommended.

STATUS: Considered mandatory.

AUTHORITY: This Service Bulletin is FAA Approved.

BACKGROUND: There is a possibility that the Flap Control Handle could be pulled against the fuel crossover supply line of those aircraft with front routed fuel line which may crush the line and thereby restrict fuel flow.

ACTION TO BE TAKEN:

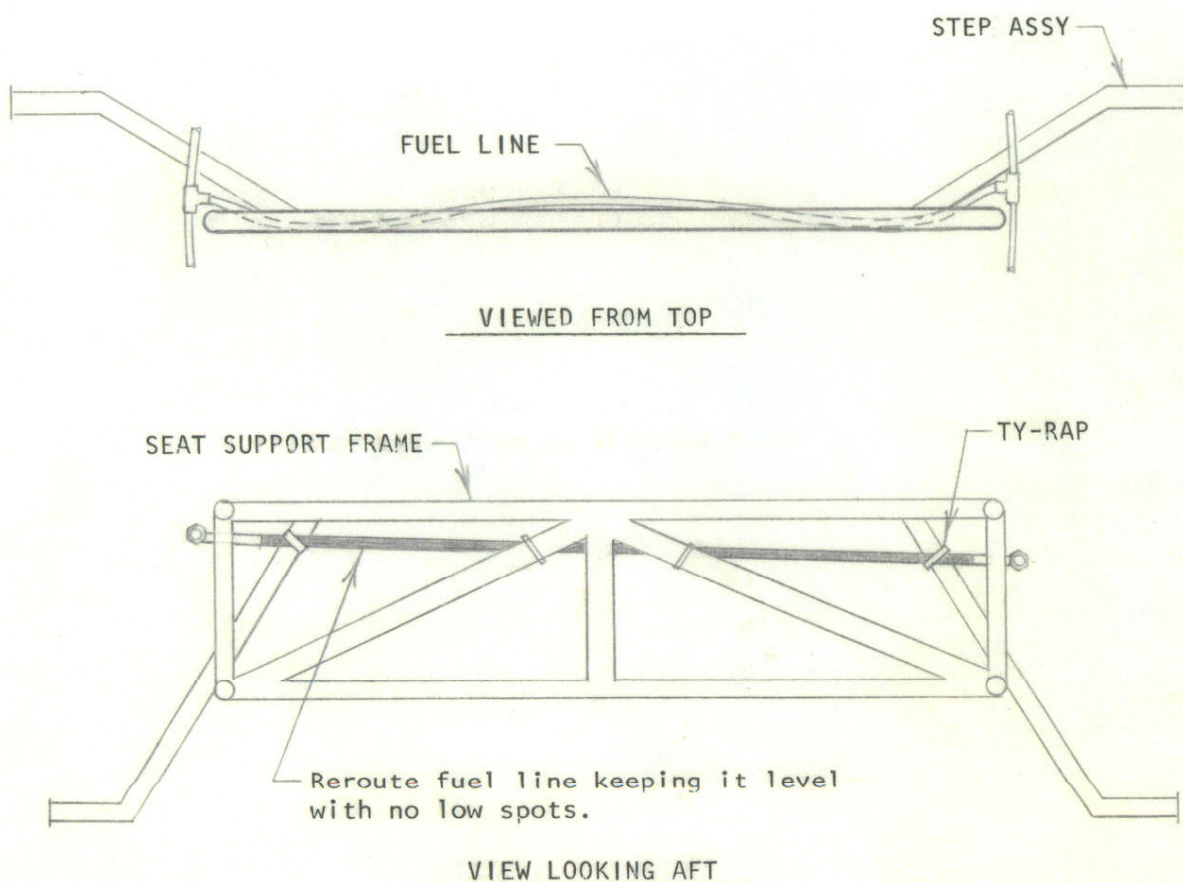
- (1) Examine forward area under front seats. If fuel crossover line is aft of the fuselage seat support frame, no further inspection or action is necessary.
- (2) If fuel crossover line is routed forward of seat support frame, inspect line for collapsed condition at area where the Flap Control Handle travels.
- (3) If fuel line is found to be collapsed, it must be replaced. A replacement line, complete with nuts, sleeves and anti-chafe sleeve can be obtained from Maule Air, Inc. for a service charge (call for price) or aluminum 3003-0 tubing to spec. WW-T-700/2 or 5052-0 tubing to spec. WW-T-700/4, 3/8" dia. x .035 may be used.
- (4) Upon inspection, if fuel line is in satisfactory condition, proceed to instructions for rerouting fuel line.

INSTRUCTIONS FOR REROUTING FUEL CROSSOVER SUPPLY LINE:

- (1) Position Fuel Selector pointer to "RIGHT" Main tank and drain right main fuel tank using drain valve behind step. (Right tank should be aft valve.)
- (2) Remove left front seat and disconnect right seat at front and lay back.
- (3) Disconnect fuel crossover line at junction "T's" under left and right doors.
- (4) Cut cable ties holding the fuel line in place and note position of anti-chafe sleeves. Remove line.

INSTRUCTIONS FOR REROUTING FUEL CROSSOVER SUPPLY LINE: (Cont'd)

- (5) Reinstall line, routing forward of right step assembly tube, aft of the middle section of the seat support frame, then forward of left step assembly tube as shown in sketches below. Position anti-chafe sleeves as before and secure with Ty-raps. Assure fuel line is of sufficient distance from battery terminals and that line is covered with anti-chafe sleeve at battery location.
- (6) Reconnect both ends of line. If installing new line, install nut and sleeve on both ends and flare to 37°. Reconnect both ends of line.
- (7) Inspect crossover line and line between "T" and drain valve to assure there are no undrainable low areas in fuel lines with airplane in ground attitude.
- (8) Inspect crossover line to assure left side "T" is 3/4 inch minimum lower than right side "T" for proper fuel flow.
- (9) Fill right main tank and check all connections for leaks.
- (10) Replace removed items.



When modification is completed, make proper log entry, fill out Service Bulletin #7 Compliance Record Sheet and return.

Maule Aircraft Corporation

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



COMPLIANCE RECORD

SERVICE BULLETIN #7

DATE _____

Aircraft Model _____

A/C Serial Number _____

Registration Number _____

The following action was taken in respect to this Service Bulletin #7:

☐ Aircraft is retrofitted with 20°/40° Flap Ratchet and Fuel Crossover Line was already routed aft of Seat Support Frame.

☐ Aircraft is retrofitted with 20°/40° Flap Ratchet and Fuel Crossover Line was found to be in satisfactory condition and has been rerouted AFT of Seat Support Frame per this Service Bulletin.

☐ Aircraft is retrofitted with 20°/40° Flap Ratchet and Fuel Crossover Line was found to be collapsed and has been replaced with new Line which is now routed AFT of Seat Support Frame per this Service Bulletin.

☐ I NO LONGER OWN THIS AIRCRAFT. IT WAS SOLD TO:

Name _____

Address _____ Zip _____

CERTIFIED BY _____
Signature

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

DATE PERFORMED _____

In an effort to keep our mailing list current for sending Service Letters and Service Bulletins, please fill in the following:

Owner's Name _____

Owner's Address _____ Zip _____

Mail this Compliance Record Form to: Maule Air, Inc.
R #5 Box 319
Moultrie, GA 31768