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SERVICE LETTER #31

Subject: Fuel Injector Return Line for 210 Header Tank.

Models Affected: M-4-210 Serial Number 1001 through 1045.
M-4-210C Serial Numbers 1001C through 1117C.
M-5-210C Serial Numbers 6001C through 6069C, 6072C,
6076C, 6077C, 6079C, 6080C, 6084C, and 6087C.

Compliance: Mandatory within thirty (30) flight hours.

Authority: This Letter is FAA Approved.

Background: There is a possibility that the short fuel lines connecting the Fuel Return Line Check Valve to the firewall fitting and the header tank may crack. A line capable of a minor degree of flex has been designed for this hook-up.

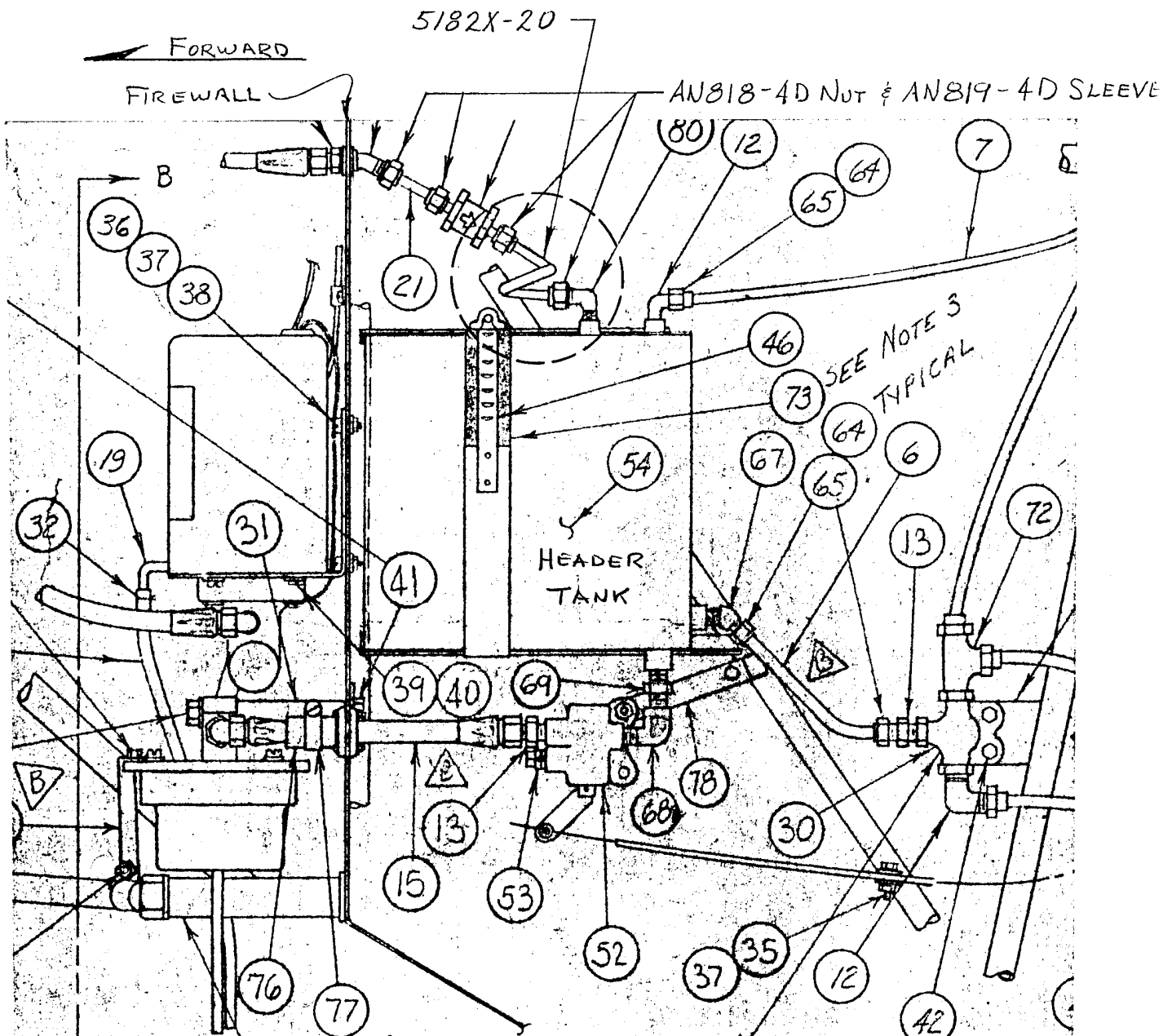
Description: Install 5182X-20, Coiled Fuel Line, as follows:

1. Remove left side kick panel.
2. Remove Fuel Line between Check Valve and header tank.
3. Inspect Fuel Line between Check Valve and firewall for any signs of leakage or cracking. If necessary, replace with Maule P/N 5182X-21, one-quarter inch ($\frac{1}{4}$ " diameter by .035 wall aluminum tubing.
4. Install 5182X-20, Coiled Fuel Line, between Check Valve and header tank (line to be installed such that there is no low spot to trap contaminants in the line in either the aircraft flight or ground attitudes).
NOTE: Arrow on check valve to point aft.
5. Before replacing Kick Panel, check system for leaks when fueled up.
6. Fill our "Compliance Record" attached and return to Maule Aircraft Corporation.
7. Enter appropriate notation in log book and aircraft records.
8. The above parts can be obtained from Maule Aircraft Corp.

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SUPPLEMENT

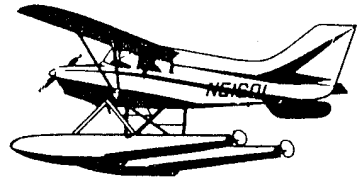
5182X-20 MAY BE FABRICATED FROM 3003-O AL. TUBE, $\frac{1}{4} \times .035$. CUT TO $8" \pm \frac{1}{8}"$ LENGTH, INSTALL FITTINGS AND FLARE ENDS 37° . COIL ASSEMBLY ONE LOOP AND INSTALL WITHOUT LOW SPOTS IN LINE.



LEFT SIDE VIEW LOOKING INBOARD

Maule Aircraft Corporation

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



Be it hereby attested that the following Service Letter has been complied with (check box):

Aircraft Serial Number _____ Aircraft Registration (N) No. _____

Date _____

Service Letter #31, Fuel Injector Return Line for 210 Header Tank

I no longer own this aircraft: It was sold to: _____
Address _____
City, State, Zip _____

Certified by (signature) _____

Certified by (Print Name) _____

Title & No. (Owner, A & P, IA, etc.) _____

Fill out and return this compliance record to:

Maule Aircraft Corporation
Spence Air Base
Moultrie, Georgia 31768
ATTENTION: Engineering Records