

MAULE AEROSPACE TECHNOLOGY, INC.

LAKE MAULE -:- RT. 5, BOX 318 -:- MOULTRIE, GA. 31768 -:- PHONE (912) 985-2045 -:- FAX: (912) 890-2402

FAA APPROVED *JCR*
DATE: 11/22/94

SERVICE BULLETIN NO. 10

Page 1 of 4
Date: 9/16/94

SUBJECT: Relocation of Gascolator and Electric Fuel Pump when M-4-210 and early M-4-210C are equipped with Dual Exhaust System 5230F.

AIRCRAFT AFFECTED: Maule Model M-4-210: s/n 1001 - 1045
Maule Model M-4-210C: s/n 1001C - 1080C
NOTE: Aircraft with Single Exhaust are not affected.

COMPLIANCE: Immediate compliance is recommended.

STATUS: Mandatory

AUTHORITY: This Service Bulletin is FAA approved.

BACKGROUND: A Maule M-4-210 recently was retrofitted with the dual Exhaust System and upon completion of the installation the owner became aware of the close proximity of the left tailpipe to gascolator. Although we have never been notified of any problems resulting from this configuration, we nevertheless want to avoid any in the future.

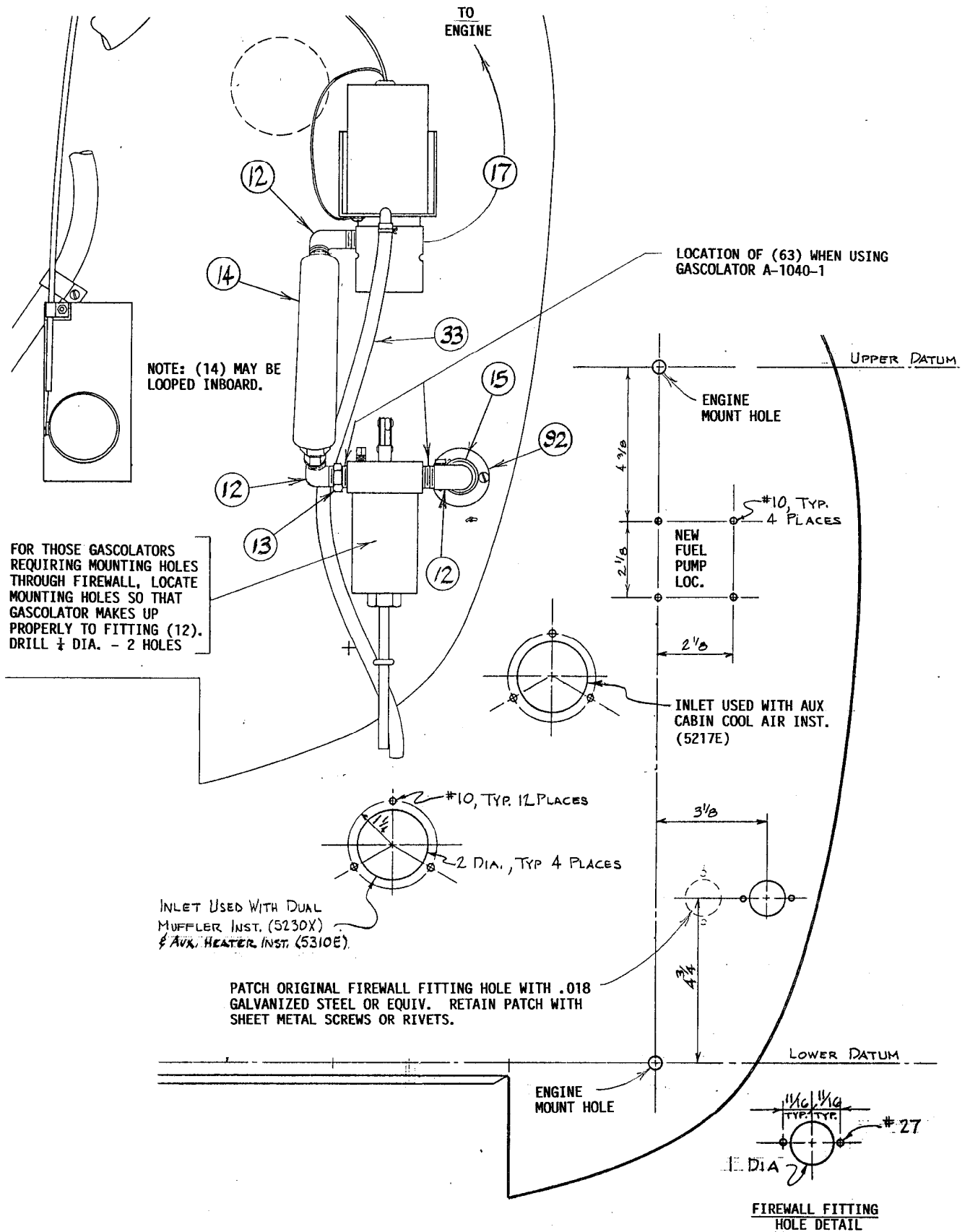
ACTION TO BE TAKEN: Relocate Gascolator and Fuel Pump from its present location above the air egress to the left side location per this Service Bulletin.

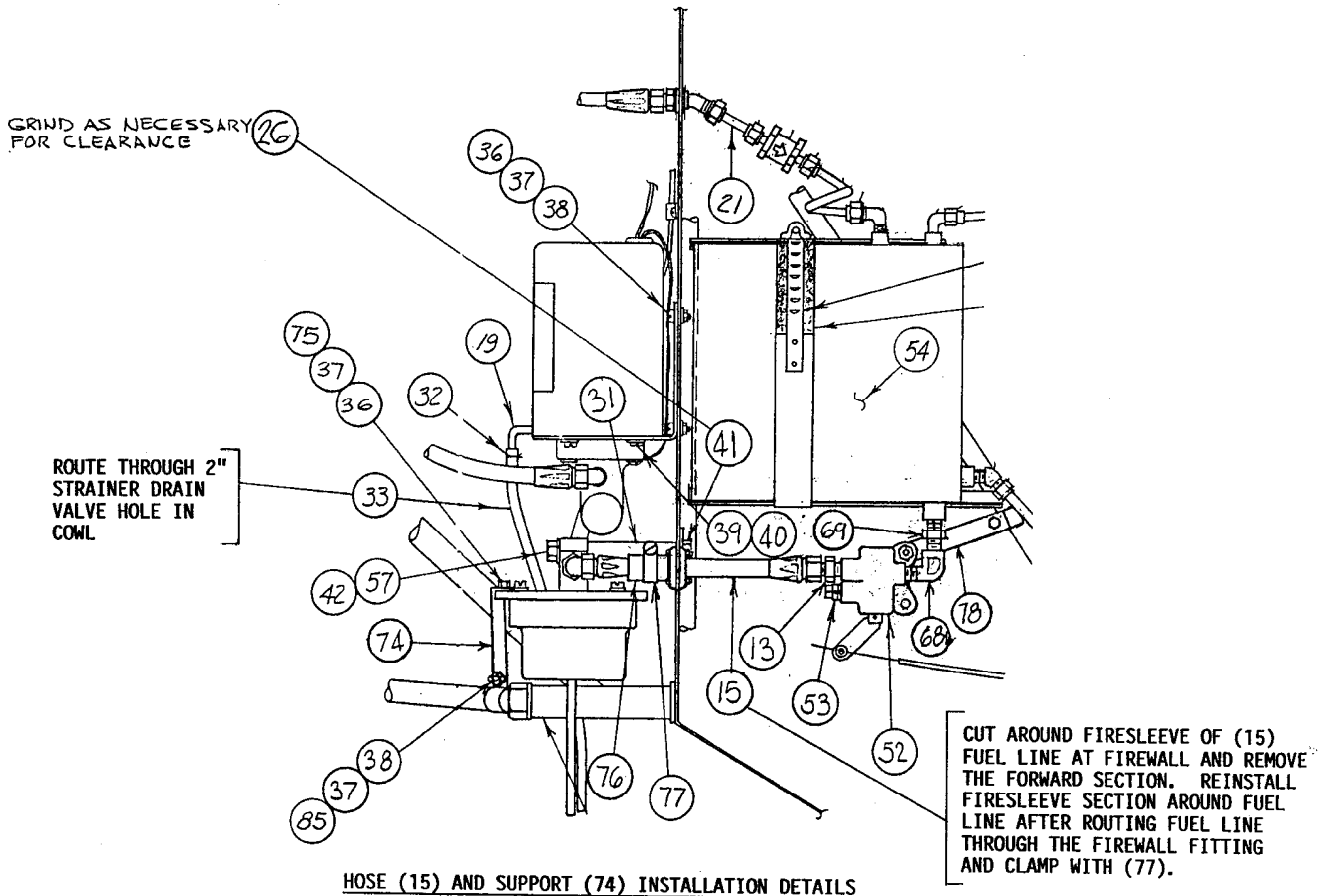
AVAILABILITY OF PARTS: The following parts required to perform this service bulletin may be purchased from Parts Department of Maule Air, Inc.:

<u>Quan.</u>	<u>Part No.</u>	<u>Item</u>	<u>Item # on Details</u>
1	5046B-8	Firewall Fitting	(92)
1	5238B	Shield, Heat	(83)
1	5199B-3	Forward Support	(74)
4	72377	90° Elbow (Lycoming)	(12)
2	AN816-6	Nipple (for Gas. A-1040-1)	(13)
2	AN912-2	Bushing (for Gas. A-1040-1)	(63)
2	AN526-632 R6	Screw	(84)
2	AN364-632	Nut	(86)
1	111F417-6S-0120	Hose (Stratoflex or Equiv.)	(14)
1	111F417-6S-0056	Hose (Stratoflex or Equiv.)	(15)
1	111F417-6S-0530	Hose (Stratoflex or Equiv.)	(17)
1	AN960-10	Washer	(36)
2	AN365-1032	Nut	(37)
1	AN3-5	Bolt	(75)
1	AN3-4	Bolt	(38)
1	QS-100-M8S	Hose Clamp	(77)
1	¼ I.D. x 16"	Koroseal (or equiv.)	(33)
2	AN970-4	Washer	(26)
2	5016B	Mount Tube, Fuel Strainer	(31)
2	AN4-34	Bolt	(41)
2	AN365-428	Nut	(42)
2	AN960-416	Washer	(57)

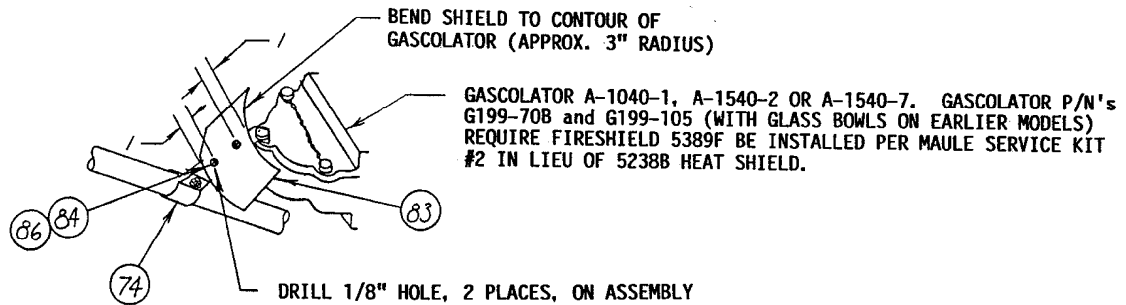
IT'S PERFORMANCE THAT COUNTS!

RELOCATE FUEL PUMP AND GASCOLATOR TO LEFT SIDE FIREWALL (VIEW LOOKING AFT):

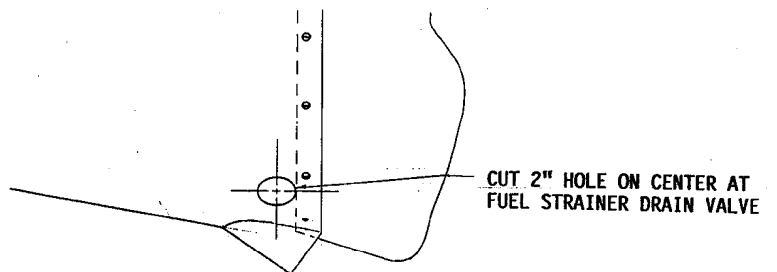




HOSE (15) AND SUPPORT (74) INSTALLATION DETAILS



GASCOLATOR EXHAUST SHIELD INSTALLATION



COWLING MODIFICATION DETAIL

NOTE: PAGE 4 IS THE COMPLIANCE RECORD SHEET WHICH IS TO BE RETURNED TO MAULE ENGINEERING RECORDS UPON COMPLETION OF THIS SERVICE BULLETIN.

MAULE AEROSPACE TECHNOLOGY, INC.

LAKE MAULE -:- RT. 5, BOX 318 -:- MOULTRIE, GA. 31768 -:- PHONE (912) 985-2045 -:- FAX: (912) 890-2402

Page 4 of 4
Date: 9/16/94

COMPLIANCE RECORD

SERVICE BULLETIN NO. 10

Aircraft Model _____

Aircraft Serial No. _____

Aircraft Registration No. _____

Action taken (check one):

- Gascolator and Fuel Pump relocated per Service Bulletin No. 10.
- I no longer own this aircraft. It has been sold to:

Name _____

Address _____

City, State _____ Zip _____

Country _____

Certified by _____
Signature

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

Date performed _____

Mail this Compliance Record to:

Maule Aerospace Technology, inc.
Engineering Records
2099 GA Highway 133 South
Moultrie, GA 31768

IT'S PERFORMANCE THAT COUNTS!

MAULE AEROSPACE TECHNOLOGIES
 AIRWORTHINESS DIRECTIVE
 SMALL AIRCRAFT & ROTORCRAFT

96-10-05 MAULE AEROSPACE TECHNOLOGIES, INC.: Amendment 39-9610; Docket No. 95-CE-22-AD.

Applicability: The following airplane models and serial numbers, certificated in any category, that have Dual Exhaust System 5230F installed:

Model	Serial Numbers
M-4-210	1001 through 1045
M-4-210C	1001C through 1080C

NOTE 1: This AD applies to each airplane identified in the preceding applicability provision, regardless of whether it has been modified, altered, or repaired in the area subject to the requirements of this AD. For airplanes that have been modified, altered, or repaired so that the performance of the requirements of this AD is affected, the owner/operator must request approval for an alternative method of compliance in accordance with paragraph (c) of this AD. The request should include an assessment of the effect of the modification, alteration, or repair on the unsafe condition addressed by this AD; and, if the unsafe condition has not been eliminated, the request should include specific proposed actions to address it.

Compliance: Required within the next 50 hours time-in-service after the effective date of this AD, unless already accomplished.

To prevent an airplane engine fire caused by the close proximity of the fuel gascolator and electric fuel pump to the exhaust system, accomplish the following:

(a) Relocate the gascolator and fuel pump from above the air egress to the left-side of the airplane in accordance with Maule Service Bulletin No. 10, dated September 16, 1994.

(b) Special flight permits may be issued in accordance with sections 21.197 and 21.199 of the Federal Aviation Regulations (14 CFR 21.197 and 21.199) to operate the airplane to a location where the requirements of this AD can be accomplished.

(c) An alternative method of compliance or adjustment of the compliance time that provides an equivalent level of safety may be approved by the Manager, Atlanta Aircraft Certification Office (ACO), Campus Building, 1701 Columbia Avenue, suite 2-160, College Park, Georgia 30337-2748. The request shall be forwarded through an appropriate FAA Maintenance Inspector, who may add comments and then send it to the Manager, Atlanta ACO.

NOTE 2: Information concerning the existence of approved alternative methods of compliance with this AD, if any, may be obtained from the Atlanta ACO.

(d) The relocation required by this AD shall be done in accordance with Maule Service Bulletin No. 10, dated September 16, 1994. This incorporation by reference was approved by the Director of the Federal Register in accordance with 5 U.S.C. 552(a) and 1 CFR part 51. Copies may be obtained from Maule Aerospace Technology, Inc., Lake Maule, Route 5, Box 318, Moultrie, Georgia 31768. Copies may be inspected at the FAA, Central Region, Office of the Assistant Chief Counsel, Room 1558, 601 E. 12th Street, Kansas City, Missouri, or at the Office of the Federal Register, 800 North Capitol Street, NW., suite 700, Washington, DC.

(e) This amendment becomes effective on June 21, 1996.

FOR FURTHER INFORMATION CONTACT:

Ms. Juanita Craft-Lloyd, Aerospace Engineer, FAA, Atlanta Aircraft Certification Office, Campus Building, 1701 Columbia Avenue, suite 2-160, College Park, Georgia 30337-2748; telephone (404) 305-7373; facsimile (404) 305-7348.