

# MAULE AEROSPACE TECHNOLOGY, INC.

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

FAA APPROVED: JCL  
DATE: 9/22/94

MAULE SERVICE LETTER #57

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Date: 6/27/94

SUBJECT: Fuel Shutoff Valve

AIRPLANES AFFECTED: Maules with Continental IO-360 Engine, Models M-4-210, M-4-210C, M-5-210C

COMPLIANCE: As required

AUTHORITY: Maule Air, Inc.

BACKGROUND: Maule Air, Inc. has received orders over the last several years for replacement fuel shutoff valves for -210 Installation. This valve is cable operated from the instrument panel and was manufactured by the Anderson Brass Company as their Part No. L-K1R2-L. Anderson no longer manufactures this valve and replacements are not obtainable. The purpose of this Service Letter is to provide a means for repairing this valve.

## ACTION TO BE TAKEN AND MATERIAL REQUIRED:

- 1) Procure REPAIR KIT No. 10065A from Maule Air, Inc. This Service Kit consists of four (4) parts:
  - Quan. (2) "O" Rings - .676 in. I.D.
  - Quan. (1) "O" Ring - .301 in. I.D.
  - Quan. (1) Roll Pin - .125 in. Dia.
- 2) Turn fuel tank selector valve to "Off" and drain the header tank through the gascolator drain.
- 3) Remove the left front kick panel.
- 4) Remove the cable operated valve from its location under the fuel header tank. Note the orientation of the operating lever and the ports for correct reinstallation.
- 5) With the valve removed, note the orientation of the operating lever relative to the mounting bracket and the ports. Unthread both end caps.
- 6) Remove the 1/8 inch pin which retains the operating lever with a small punch against the protruding end.
- 7) Disassemble and clean all parts. The square section rubber seats are normally in good condition and should not need replacement.
- 8) Remove the original "O" rings located on the end caps and on the operated valve stem. Install the new replacement "O" rings and lightly coat them with Vaseline or oil prior to reassembly.

IT'S PERFORMANCE THAT COUNTS!

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- 9) Reassemble the valve in the same orientation as it was disassembled. Use the 1/8 inch roll pin in place of the original drive pin when installing the lever. Locate the split in the roll pin away from the cap so that the lever will bear against an undisturbed surface. Lubricate the moving parts with light machine oil or equivalent.
- 10) Reinstall the valve as it was removed. Use fuel line thread sealant ("Sealube", or equivalent) on tapered pipe threads, but do not allow excess sealent into the fuel system.
- 11) Install the cable and check the valve for proper operation (when the knob is pulled to "Off", the plunger should extend out of the valve approximately 3/32 inch).
- 12) Turn fuel tank selector valve and shutoff valve "On" and check for external fuel leakage. This completes this repair.

DOCUMENTATION:

Return Compliance Record Sheet to Maule Engineering Record Department. This information is necessary if Service Letters or Bulletins are published which may affect your aircraft in the future.

REV.	DESCRIPTION	DATE	EFFECT. ON	EFFECT. TO

REPAIR KIT

For cable operated Fuel Shutoff valve used on Maule Continental IO-360 Engine Installations (Anderson Brass Co. p/n L-K1R2-L)

<u>Quantity</u>	<u>Part No.</u>	<u>Name</u>
2	2-(017)N674-70	"O" Ring (Parker)*
1	2-(109)N674-70	"O" Ring (Parker)*
1	92373A175	Roll Pin (McMaster-Carr)*

\*Equivalent Parts from other sources may be used.

NOTE: Installation Instructions per Maule Service Letter #57.

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Date 9/22/94 Initials JCR

REQ'D	DESCRIPTION	FINISH	MAT'L & SPEC.	STOCK
<b>MAULE AIRCRAFT CORP.</b>				
TOL. BLOCK FRACTIONS ± 2 PLACE ± .030 3 PLACE ± .010 ANGLE ± 2'		<b>MOULTRIE</b>		<b>GEORGIA</b>
REPAIR KIT, -210 FUEL SHUTOFF VALVE			SCALE	SIZE
NEXT ASSEM. —	DWG. BY D G R	CHECKED BY	DATE 6/27/94	NO. 10065A

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COMPLIANCE RECORD SHEET

Airplane Serial Number \_\_\_\_\_

Airplane Registration Number \_\_\_\_\_

Certified by \_\_\_\_\_  
Signature

Title \_\_\_\_\_  
Owner, A & P, IA, etc.

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

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

Owner's name \_\_\_\_\_

Owner's address \_\_\_\_\_

\_\_\_\_\_ Zip \_\_\_\_\_

Mail this Compliance Record Sheet to: Maule Aerospace Technology, Inc.  
Engineering Records  
2099 GA Hwy 133 South  
Moultrie, Georgia 31768  
USA

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