



MANDATORY

FAA: *[Signature]*
Date: APR 08 2003

Service Bulletin No. 21

Page 1 of 2
Date: 3/24/03

SUBJECT: Introduction of PLL-7 Fuel Pump and new fuel pump drive for Franklin engines, models 6A-335-B1A, 6A-350-C1 and 6A-350-C1R

AIRPLANES AFFECTED: Maule Models M-4-180C, s/n 3001C-3006C; M-4-220C, s/n 2001C-2190C; M-4-220S, s/n 2001S; M-5-220C, s/n 5001C-5057C.

STATUS: Failure of the check valves inside the existing fuel pump can result in reduction or complete loss of fuel flow to the engine as a result of loss of valve function, and failure of the diaphragm could also result in reduction of fuel flow and an external fuel leak. This condition, if not corrected, could result in the reduction or loss of engine power or external fuel leaks. Implementation of this bulletin restores the airworthiness of the engines that are unworthy because of issuing bulletin PZL-F/71/2002 and FAA AD 2003-05-01.

BACKGROUND: This Service Bulletin is prompted by a report received by the FAA from the GJCA of Poland, that there have been several failures of the valves and diaphragms in certain diaphragm type AC4886 fuel pumps, AC P/N 5656774, PZL P/N 26.11.1710. (The only number that appears on the pump is 4886 on a metal tag attached to a bolt on the upper cover.)

COMPLIANCE: Compliance with this Service Bulletin is required before further flight unless already done.

ACTION TO BE TAKEN AND PROCEDURES FOR INSTALLATION OF FUEL PUMP AND FUEL PUMP DRIVE:

1. Comply with attached PZL Service Bulletin No. PZL-F/72/2002, dated September 2002 and include the following:
 - a. For Item 2.m. and n. on page 4 of PZL Service Bulletin, complete Franklin Fuel System (Firewall Forward) installation and optional Fuel Flow Transducer installation per Maule Drawing 5645E.
 - b. Optional Hourmeter Switch may be installed per Maule Drawing 5646A.

Note: Page 2 is the Service Bulletin Compliance Record Sheet and is to be completed and returned to Maule Engineering Records.

PERFORMANCE THAT COUNTS!

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Service Bulletin No. 21

COMPLIANCE RECORD SHEET

Aircraft Model _____

Aircraft Serial No. _____

Action taken (PLEASE CHECK IF APPLIES):

- () Complied with PZL Service Bulletin No. PZL-F/72/2002, dated September 2002 and this Maule Service Bulletin No. 21.

Owner's Name _____

Owner's Address _____

City _____ State _____ Zip _____

Certified by _____ Title _____
Signature Owner, A & P. IA. Etc.

Date performed _____

If you no longer own this airplane, please fill in new owner's information and return to factory address below:

New Owner's Name _____

New Owner's Address _____

City _____ State _____ Zip _____

Please mail this completed Compliance Record to: Maule Air, Inc. ~ Attention: Virginia Davis ~ Engineering Records ~ 2099 Georgia Highway 133 South ~ Moultrie, GA 31788 USA