

INSPECTION FOR RECALL OF KAES 200F SERIES FUEL PUMP

INTRODUCTION:

It has come to the attention of Kelly Aerospace Energy Systems, LLC (KAES) that a condition may exist in the 200F series fuel pump where the tolerances of the bearing and housing bore vary outside of acceptable limits. This results in a condition wherein the shaft running clearance is reduced and may potentially cause failure of the shaft and bearing assembly in a relatively short period of less than ten (10) hours from being placed into service. Fuel pumps that have operated properly beyond ten (10) hours time in service are cleared for continued use. In order to preclude potential failures of the engine driven fuel pump, KAES mandates the return of all new or rebuilt 200F fuel pumps (any part number) manufactured after January 1, 2008 and prior to June 25, 2009 (those prior to but not including S/N MFN012FP) that have accumulated ten (10) hours or less time in service. Failure of the drive shaft will permanently disable the fuel pump and will require use of an alternate fuel pump to keep the aircraft engine running.

This Service Bulletin is being issued to mandate the removal and replacement of all new or rebuilt 200F series fuel pumps that have been manufactured between January 1, 2008 and June 25, 2009 and which have **accumulated ten (10) hours or less time in service**.

COMPLIANCE:

Prior to next flight, determine if the new or rebuilt 200F series fuel pump must be replaced per the effectivity below. *If it is required that the 200F fuel pump must be replaced and can not be accomplished on site, a ferry permit may be required to relocate the aircraft to a suitable facility for removal and replacement. In any case, do not fly the airplane unless an operational electrical boost pump is installed.*

EFFECTIVITY:

Any aircraft or rotorcraft utilizing a new or rebuilt KAES engine driven 200F series fuel pump of any part number that has been manufactured between January 1, 2008 and June 25, 2009 and has accumulated ten (10) hours or less time in service.

NOTE:

Part numbers affected by this service bulletin include: KAES P/N 200F-5001, 200F-5002, 200F-5003, 200F-5004, & 200F-5005 and Lycoming part numbers 62E23185, 62E23186, 62E23188, 62E23187, & 62E23189. An "R" is added to the end of the KAES P/N's to indicated rebuilt. (See Fig. 2 Reference Chart on page 4 for applicability information.)

NOTE:

All new or rebuilt engine driven 200F series fuel pumps of any part number or serial number that have been **operated ten (10) hours time in service or more** or which were manufactured **before January 1, 2008 or after June 25, 2009 are not affected** by this service bulletin.

PROCEDURE:

WARNING:

Take all precautions when removing and installing the aircraft engine fuel pump. Aviation fuel may be uncontained or spilled creating noxious vapors and a potential fire hazard. This may result in injury to personnel and damage to equipment.

CAUTION:

Do not depend on this Service Bulletin for gaining access to the aircraft or engine. This task will require that you use the applicable manufacturers maintenance manuals or service instructions. In addition, any preflight or in flight operational checks require use of the appropriate AFM or POH.

1. Determine if your aircraft is affected. This will require that you identify the new or rebuilt 200F fuel pump manufacture date by deciphering the serial number code per Fig 1 below. Once the manufacture date is known, determine the time in service on identified fuel pump.
2. You **are affected** if your new or rebuilt 200F fuel pump has a serial number of LAN001FP through MFN011FP and the fuel pump has accumulated ten (10) hours or less time in service. Serial numbers with an "R" indicate rebuilt and are included in the affected group. *(Manufacture dates between January 1, 2008 and June 25, 2009.)*
3. You **are not affected** if the new or rebuilt 200F fuel pump has a serial number of MFN012FP or later and new or rebuilt 200F fuel pumps of any serial number that have accumulated more than ten (10) hours time in service. *(Manufacture date is before January 1, 2008 or after June 25, 2009.)*
4. Gain access to the 200F fuel pump by removing cowling and other engine or airframe items as required. Utilize the aircraft and engine manufacturers service manuals or instructions as applicable to your aircraft. Remove the fuel pump and return it to KAES per the "warranty statement" below.

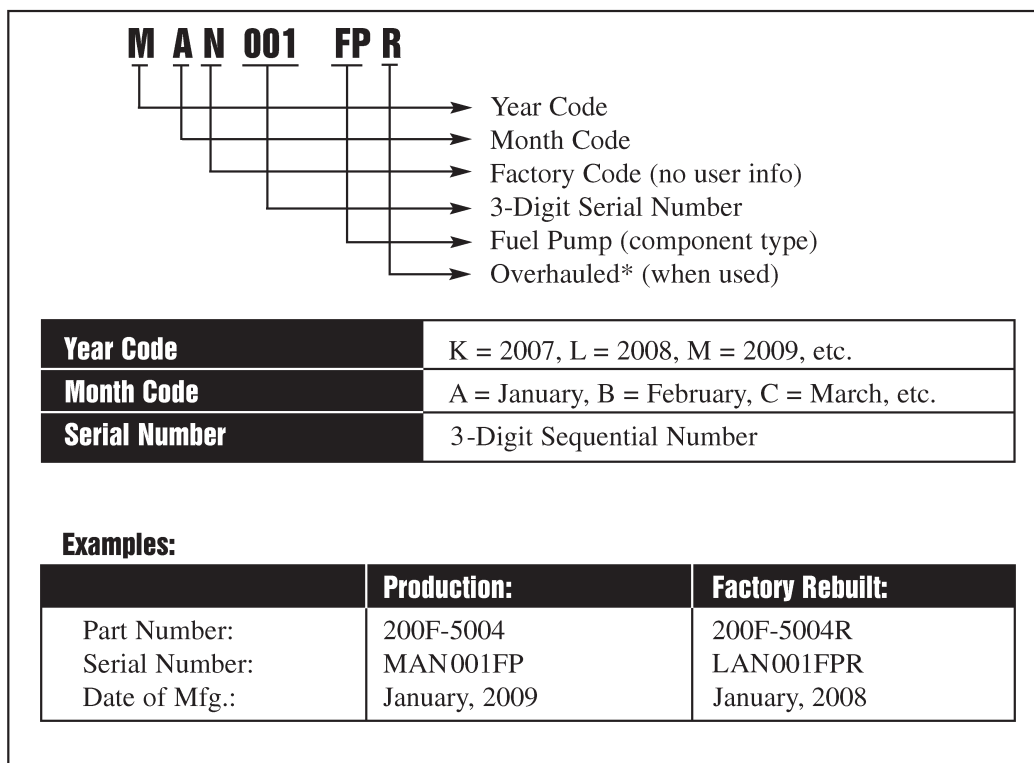


Figure 1 - Serial Number Code

RETURN TO SERVICE:

1. With the new or rebuilt 200F fuel pump assembly repaired by KAES or an unaffected replacement obtained, the aircraft may now be prepared for return to service.
2. Utilizing the applicable aircraft and engine manufacturers maintenance manuals, install the appropriate 200F fuel pump. Remove any caps or covers installed earlier and purge the fuel lines of air. Perform an appropriate engine performance run-up and check for leaks. Correct any malady discovered.
3. Utilizing the applicable aircraft and engine manufacturers maintenance manuals, install any portion of the aircraft removed to gain access and inspect as applicable.
4. Upon successful completion of this service bulletin, make an appropriate log book entry of compliance.

PARTS REQUIRED:

Up to one (1) or two (2) each 200F fuel pump as required per aircraft type, P/N 200F-5001, 200F-5002, 200F-5003, 200F-5004, or 200F-5005 as applicable. *If incidental parts are required in relation to this service bulletin for the engine or aircraft, they must be obtained from the applicable manufacturer.*

DISPOSITION OF STOCK:

Any new or rebuilt 200F engine driven fuel pump, part number 200F-5001, 200F-5002, 200F-5003, 200F-5004, & 200F-5005 which has been purchased from KAES with a manufacture date between January 1, 2008 and June 25, 2009 and remains in unused stock, may be returned for replacement unit only. Credit only for unused stock will not be issued. This offer is valid for six (6) months from the date of this service bulletin.

WARRANTY STATEMENT:

The affected new or rebuilt 200F fuel pump may be returned directly to Kelly Aerospace Energy Systems for repair or replacement at our choice. For units in warranty, normal terms and conditions apply. Special consideration is offered for fuel pumps not in warranty, however the same terms and limitations apply as in the Limited Warranty Policy included with each new 200F fuel pump at the time of purchase. Applications for credit only will not apply or be approved. *No labor allowance is applicable.* This offer is valid for six (6) months from the date of this service bulletin.

The sole warranty applicable to this service publication is related to the terms and conditions in the Kelly Aerospace Energy Systems, LLC Limited Warranty Policy delivered with new and overhauled components or spare parts. This publication does not imply or state any responsibility for the workmanship of any person or entity performing work or maintenance on the fuel pump, engine, or aircraft nor does it imply any responsibility for economic or consequential loss.

All affected units must be delivered to:

**Kelly Aerospace Energy Systems, LLC
2900 Selma Highway
Montgomery, AL 36108, USA**

Please include full return shipping information.

CONTACT INFORMATION:

If you have any questions concerning the instructions in this service bulletin, please contact Kelly Aerospace Energy Systems Technical Support at 888-461-6077.

Questions concerning aircraft, rotorcraft, or engine service or operation must be forwarded to the applicable manufacturer of that product.

Part Number KAES Fuel Pump	Part Number Lycoming Engines (Avco, Textron)	Lycoming Engine Installation Eligibility
200F-5001	62E23185	GO-435; GO-435-C2; GO-435-C2A; GO-435-C2A2; GO-435-C2B; GO-435-C2B1; GO-435-C2B2; GO-435-C2C; GO-435-C2D; GO-435-C2E; GO-435-D1; GO-480; GO-480-A1A; GO-480-B; GO-480-B1; GO-480-B1A6; GO-480-B1D; GO-480-C1D6; GO-480-C2C6; GO-480-C2D6; GO-480-C2E6; GO-480-C3A6; GO-480-E1A6; GO-480-F6; GO-480-F1A6; GO-480-F2A6; GO-480-F2D6; GO-480-F3A6; GO-480-F3B6; GO-480-F4A6; GO-480-F4B6; GO-480-G1A6; GO-480-G1D6; GO-480-G1H6; GO-480-G1J6; GO-480-G2D6; GO-480-G2F6
200F-5002	62E23186	IO-540-K1E5; IO-720-A1A; IO-720-A1B; IO-720-B1B; IO-720-C1B; IO-720-D1B; LTIO-540-F2BD; LTIO-540-J2BD; TIGO-541-D1A; TIGO-541-D1B; TIGO-541-E1A; TIO-360-A3B6; TIO-540-A1A; TIO-540-A1B; TIO-540-A2A; TIO-540-A2B; TIO-540-A2C; TIO-540-AE2A; TIO-540-J2B; TIO-540-U2A; TIO-540-AB1AD; TIO-540-AA1AD;
200F-5003	62E23188	LTIO-540-U2A; LTIO-540-J2B
200F-5004	62E23187	IO-540-K1F5D; LTIO-540-W2A; TIO-540-F2BD; TIO-540-J2BD; TIO-540-N2BD; TIO-540-R2AD; TIO-540-T2AD; TIO-540-V2AD
200F-5005	62E23189	IO-720-A1B; LTIO-540-V2AD; TIO-540-W2A; TIO-540-AH1A; TIO-540-AJ1A

Figure 2 - Pump to Engine Ref. Chart