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Service Bulletin

Service Bulletin No. 065

201F Fuel Pump

Valve Housing Cap Screw Replacement

1. Planning Information

A. Effectivity

- (1) Hartzell Engine Technologies LLC (HET) 201F Series Fuel Pump P/N's 201F-5001, 201F-5002, 201F-5003, 201F-5004, 201F-5005, 201F-5006, 201F-5007, and 201F-5008 used on Lycoming engines listed in Table 1* are affected by this service bulletin.
 - a. Serial number fuel pumps from H-QKN001FP through H-SCN001FP are affected by this service bulletin. The affected units may be new or overhauled.
 - b. Any serial number fuel pump that has complied with HET Service Letter SL 048 prior to March 1, 2015 is affected by this service bulletin.

* Engine applications may include but are not limited to those listed in Table 1.

WARNING: DO NOT USE OBSOLETE OR OUTDATED INFORMATION. PERFORM ALL INSPECTIONS OR WORK IN ACCORDANCE WITH THE MOST RECENT REVISION OF THE APPLICABLE AIRCRAFT AND/OR ENGINE MAINTENANCE MANUAL (MM) AND THIS SERVICE BULLETIN (SB). INFORMATION CONTAINED IN THE MM AND THE SB MAY BE SIGNIFICANTLY CHANGED FROM EARLIER REVISIONS. USE OF OBSOLETE INFORMATION MAY CREATE AN UNSAFE CONDITION THAT MAY RESULT IN DEATH, SERIOUS BODILY INJURY, AND/OR SUBSTANTIAL PROPERTY DAMAGE. REFER TO THE APPLICABLE MM INDEX AND THE HET WEBSITE FOR THE MOST RECENT REVISION LEVELS.

B. Concurrent Requirements

- (1) Compliance with HET SB 041 Rev. A, SB 045, and SB 056 Rev. 1 or most current revision thereof if prior compliance has not previously been accomplished.

C. Reason

- (1) Fuel weepage at the fuel pump valve housing parting seams has been observed. This condition may be due to the cap screws bottoming out before reaching full clamping load.
- (2) If fuel weepage exists at the valve housing, fuel dye stains may appear at the upper and lower seam where the cover, valve, and pump housing meet.
- (3) Replacement of the four (4) existing pump assembly cap screws part number NAS1352C3H22 with four (4) shorter cap screws part number NAS1352C3H20 is required.
- (4) Regulatory action is unknown.

D. Description

- (1) This Service Bulletin provides Instructions for Continued Airworthiness (ICA).
- (2) This Service Bulletin provides instructions for the replacement of the four (4) existing fuel pump assembly cap screws in affected 201F Series Fuel Pumps.

Service Bulletin

Service Bulletin No. 065

201F Fuel Pump Valve Housing Cap Screw Replacement

E. Compliance

- (1) At the next regularly scheduled inspection or twelve (12) months after the effective date of this Service Bulletin, whichever occurs first, replace the 201F fuel pump assembly cap screws in accordance with the Accomplishment Instructions of this Service Bulletin.
- (2) Replacement of the four (4) 201F fuel pump assembly cap screws in accordance with the Accomplishment Instructions is the terminating action for this Service Bulletin.

F. Approval

- (1) FAA acceptance has been obtained on technical data in this publication that affects type design.

G. Manpower

- (1) Manpower is negligible for identification when performed in conjunction with regularly scheduled maintenance inspection required by the engine/aircraft manufacturer.
- (2) Up to one (1.0) hour labor* is required for replacement/torque of cap screws and Return to Service when performed in conjunction with regularly scheduled maintenance inspection.
- (3) If a fuel pump cooling cover is installed, up to one (1.0) hour labor* is required for removal and installation of the fuel pump cooling cover.

* Per engine if used on twin engine aircraft.

H. References

- (1) Applicable aircraft POH/AFM.
- (2) Aircraft maintenance manual (as applicable).
- (3) Lycoming engine Service Instructions or maintenance manual (for applicable model).
- (4) HET SL 048 Rev. 1 or latest revision.
- (5) The latest revisions of Service Bulletins:
 - a. SB 041 Rev. A
 - b. SB 045
 - c. SB 056 Rev. 1

I. Other Publications Affected

- (1) None

J. Weight and Balance

- (1) No Change

2. Material Required

- A. Four (4) each, Cap Screw, P/N NAS1352C3H20.
- B. Appropriate length of .032 inch stainless steel safety wire.
Optional use: Two (2) each, Safety-T-Cable™, HET P/N RX-1961.

Service Bulletin

Service Bulletin No. 065

201F Fuel Pump Valve Housing Cap Screw Replacement

3. Accomplishment Instructions

WARNING: THIS PROCEDURE MUST BE PERFORMED BY COMPETENT AND QUALIFIED PERSONNEL WHO ARE FAMILIAR WITH ENGINE AND AIRFRAME MAINTENANCE THAT IS SPECIFIC TO THE ENGINE FUEL SYSTEM. FAILURE TO DO SO MAY RESULT IN ECONOMIC LOSS, EQUIPMENT DAMAGE, AND/OR PHYSICAL INJURY.

CAUTION 1: DO NOT USE OBSOLETE OR OUTDATED INFORMATION. PERFORM ALL INSPECTIONS OR WORK IN ACCORDANCE WITH THE MOST RECENT REVISION OF THIS SERVICE BULLETIN AND THE APPLICABLE AIRCRAFT, ENGINE AND/OR HET 200201-0000 MAINTENANCE MANUAL. INFORMATION CONTAINED IN THESE MANUALS OR THIS SERVICE BULLETIN MAY BE SIGNIFICANTLY CHANGED FROM EARLIER REVISIONS. FAILURE TO COMPLY WITH THE SERVICE BULLETIN OR THE USE OF OBSOLETE INFORMATION MAY CREATE AN UNSAFE CONDITION THAT MAY RESULT IN DEATH, SERIOUS BODILY INJURY, AND/OR SUBSTANTIAL PROPERTY DAMAGE. REFER TO THE HET WEBSITE (WWW.HARTZELL.AERO) FOR THE MOST RECENT REVISION OF THE 200201-0000 MANUAL.

CAUTION 2: DO NOT DEPEND ON THIS SERVICE BULLETIN FOR GAINING ACCESS TO THE AIRCRAFT OR ENGINE. ACCESS REQUIRES THE USE OF THE APPLICABLE MANUFACTURER'S MAINTENANCE MANUALS OR SERVICE INSTRUCTIONS. IN ADDITION, ANY PREFLIGHT OR IN FLIGHT OPERATIONAL CHECKS REQUIRE USE OF THE APPROPRIATE AFM OR POH.

A. Fuel Pump Identification

- (1) If positive identification of the fuel pump model and serial number can be made through the engine or aircraft documentation, and the fuel pump is affected per 1.A, proceed to 3.B Corrective Action. If the fuel pump is Not affected, proceed to 3.C Return to Service.
- (2) If positive identification cannot be made through engine or aircraft documentation, gain access and locate the data tag on the fuel pump to verify the fuel pump effectivity.
 - a. If the unit IS an affected HET 201F fuel pump, proceed to 3.B Corrective Action.
 - b. If the unit IS NOT an affected HET 201F fuel pump and has no cooling cover, proceed to section 3.D Maintenance Record.
 - c. If the unit IS NOT an affected HET 201F fuel pump and the cooling cover was removed for identification, proceed to section 3.B(8) Corrective Action.

B. Corrective Action:

- (1) Corrective action of an affected fuel pump may be performed while the fuel pump is mounted on the engine if adequate space is available and the cooling cover removed (if applicable).
 - a. If space does not permit, remove the fuel pump from the engine in accordance with current engine/airframe maintenance manual or service instructions.
- (2) Cut and remove the safety wire or safety cable securing the cap screws.

Service Bulletin

Service Bulletin No. 065

201F Fuel Pump Valve Housing Cap Screw Replacement

- (3) Using a 5/32 inch allen wrench, remove an existing cap screw, retaining the flat washer in place.
- (4) Install a new shorter P/N NAS1352C3H20 cap screw and tighten snug but do not apply torque.
 - a. Repeat the removal and replacement of the remaining three cap screws one at a time, replacing each with a shorter cap screw.
- (5) Using a socket with 5/32 inch hex stock inserted and a calibrated torque wrench, torque the new cap screws in a crisscross pattern applying 23-25 in-lbs (2.59-2.82 Nm).
- (6) Install .032 inch stainless steel safety wire or optional Safety-T-Cable™, HET P/N RX-1961 at the head of the cap screws. Tool requirements and Installation for Safety-T-Cable™ may be found at <http://www.dmctools.com>. Refer to Fig. 1.
- (7) If the fuel pump was removed from the engine for the corrective action, reinstall the fuel pump in accordance with current engine/airframe maintenance manual or service instructions.
- (8) Reinstall the fuel pump cooling cover and air hose (if applicable) in accordance with current engine/airframe maintenance manual or service instructions.

C. Return to Service

- (1) Perform the recommended fuel pump set up and functional tests in accordance with the appropriate aircraft maintenance manual, engine service instructions, and operational tests in the AFM or POH.
- (2) Inspect the fuel pump installation for security and leaks.

D. Maintenance Record

- (1) Make an aircraft logbook entry to indicate the completion of this Service Bulletin as applicable noting compliance with this Service Bulletin as terminating action.

4. Contact Information

A. Contact **HET Product Support** for all communications regarding the technical content of this Service Bulletin.

- (1) Phone +1.334.386.5400 (Option 2)
- (2) Fax +1.334.386.5450.
- (3) E-mail at techsupport@HartzellEngineTech.com.
- (4) Address

Hartzell Engine Technologies LLC
2900 Selma Highway,
Montgomery, AL 36108
USA

Service Bulletin

Service Bulletin No. 065

201F Fuel Pump Valve Housing Cap Screw Replacement

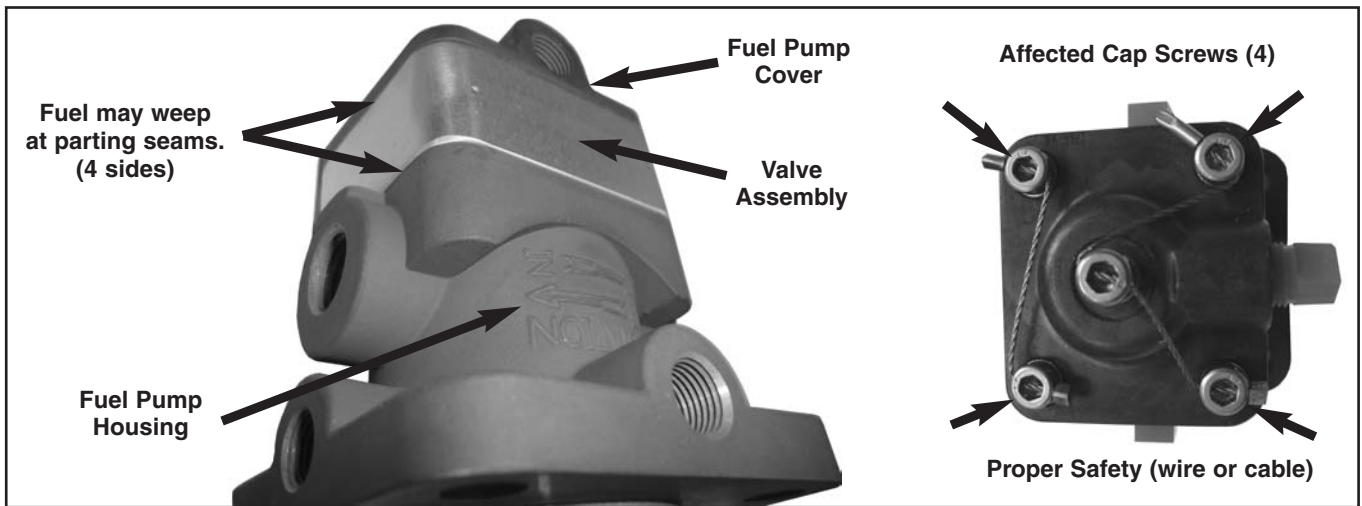


Figure 1 - 201F Fuel Pump Component Identification

Service Bulletin

Service Bulletin No. 065

201F Fuel Pump Valve Housing Cap Screw Replacement

Table 1 - Cross Reference & Engine Application*

Part Number HET Fuel Pump	Part Number Lycoming (Ref. Only)	Lycoming Engine Installation Eligibility
201F-5001	62D26030	IO-540-G1B5; IO-540-G1D5; IO-540-J4A5; IO-540-R1A5; IO-720-A1A; IO-720-A1B
201F-5002	62D26031	IO-720-A1A; IO-720-A1B
201F-5003	62D26032	IO-540-G1C5; IO-540-K1A5; IO-540-K1B5; IO-540-K1F5; IO-320-C1A; IO-320-F1A
201F-5004	62D26033	IO-360-A1B; TIO-360-A1B
201F-5005	62D26034	IO-540-A1A5; IO-540-G1B5; IO-540-G1D5; IO-540-K1C5; IO-540-K1D5; IO-540-K1F5; IO-540-L1A5; IO-540-P1A5; IO-360-B1D; TIO-540-A2B; TIO-540-C1A; TIO-540-E1A; TIO-540-G1A; TIO-540-H1A
201F-5006	62D26035	IO-540-K1A5D; TIO-360-C1A6D; LIO-320-C1A
201F-5007	62D26036	IO-540-M2A5D; TIO-540-AA1AD; TIO-540-AB1AD
201F-5008	62D26037	TIO-540-AF1A; TIO-540-AF1B

* The information in Table 1 is provided for reference only. Consult the engine maintenance manual or other service documentation for verification of part number and application.

Service Bulletin Appendix

Service Bulletin No. 065 Rev. New

201F Fuel Pump Valve Housing Screw Replacement

1. ELIGIBILITY:

- A. Hartzell Engine Technologies LLC (HET) 201F series fuel pump part numbers 201F-5001, 201F-5002, 201F-5003, 201F-5004, 201F-5005, 201F-5006, 201F-5007, and 201F-5008 with serial numbers from H-QKN001FP through H-SCN001FP.
- B. Any HET 201F fuel pump part number and serial number which has complied with SL 048 prior to March 1, 2015.

2. COMMERCIAL ASSISTANCE PROGRAM:

The following will be provided with submission of a completed SB 065 Rev. New Claim Form, invoice copies showing breakdown of labor charges, material and log book entries. **Any commercial assistance or other consideration shall expire twelve (12) calendar months from the date of issue of this Service Bulletin.**

- A. For an affected 201F Fuel Pump assembly, four (4) each, Cap Screw, HET P/N NAS1352C3H20 will be provided at no charge. (Per affected 201F fuel pump.)
- B. Labor for removal & installation of four (4) Cap Screws, on eligible 201F Fuel Pumps described in 1.A or 1.B above will be paid at a shop rate of up to US \$75 an hour up to the amount specified below:
 - (1) Up to one (1.0) hour labor for replacement/torque of cap screws and for Return to Service. (Per engine if used on twin engine aircraft.)
 - (2) If a fuel pump cooling cover is installed, up to one (1.0) hour labor for removal/installation of the fuel pump cooling cover. (Per engine if used on twin engine aircraft.)

3. COMMERCIAL ASSISTANCE ADMINISTRATION:

- A. Complete the Service Bulletin SB 065 Rev. New Claim Form attached to this appendix.
 - (1) Mail, e-mail, or fax the SB 065 Rev. New Claim Form to the attention of Product Support as indicated on the Service Bulletin Claim Form.
- B. Upon receipt of the Service Bulletin Claim Form, Hartzell Engine Technologies LLC will ship four (4) each, Cap Screw, HET P/N NAS1352C3H20, to the service provider indicated. Service provider must return proof of service within thirty (30) days or the service provider shall be invoiced for the HET supplied Cap Screws. (Per affected 201F fuel pump.)
- C. For labor and material charges:
 - (1) Aircraft/engine service facility to submit an invoice up to the amount specified in section 2.B and copies of logbook entries for reimbursement.

4. WARRANTY STATEMENT:

- A. The sole warranty for the actions of SB 065 Rev. New are contained in the HET Limited Warranty Policy issued with the purchase of each new/overhauled 201F Fuel Pumps (see terms and conditions therein).
- B. Commercial assistance may apply as stated in this Appendix.
- C. Issuance of SB 065 Rev. New in no way constitutes an implied or expressed warranty of any kind.
- D. This publication does not imply or state any responsibility for the workmanship of any person or entity performing work or maintenance on the engine or aircraft fuel system.

Service Bulletin Appendix

Service Bulletin No. 065 Rev. New

201F Fuel Pump Valve Housing Screw Replacement

5. CONTACT INFORMATION:

A. Contact HET Product Support for all communications regarding the technical content of this Service Bulletin.

- (1) Phone +1.334.386.5400 (Option 2)
- (2) Fax +1.334.386.5450
- (3) E-mail at techsupport@HartzellEngineTech.com.
- (4) Address

Hartzell Engine Technologies LLC
2900 Selma Highway
Montgomery, AL 36108
USA

Service Bulletin Appendix

Service Bulletin No. 065 Rev. New 201F Fuel Pump Valve Housing Screw Replacement

SB 065 Rev. New CLAIM FORM

Owner information

Name: _____ Date: _____ Tel: _____ Fax: _____

Company Name: _____ E-mail: _____

Address: _____

City: _____ State: _____ Postal Code: _____

Country: _____

Aircraft/Engine Service Facility information

Name: _____ Date: _____ Tel: _____ Fax: _____

Company Name: _____ E-mail: _____

Address: _____

City: _____ State: _____ Postal Code: _____

Country: _____

Aircraft Mfg: _____ Model: _____ Time in Service: _____ S/N: _____

Engine: _____ Model: _____ Time in Service: _____ S/N: _____

Component Information

Nomenclature: _____ Part Number: _____

Serial Number: _____ (Fuel Pump) Date Removed: _____

Part Time in Service: _____ (Fuel Pump) Original Date Installed: _____

Send this SB 065 Rev. New Claim Form to:

Hartzell Engine Technologies Product Support

Fax: +1.334.386.5450

E-mail: techsupport@hartzellenginetech.com

RMA Number:

(write in HET assigned RMA number)

Hartzell Use Only - do not write below this line.

Warranty No: _____ Authorized by: _____