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# Service Bulletin

## Service Bulletin No. 084

### 200F & 202F Fuel Pump Rotor Inspection

#### 1. Planning Information

##### A. Effectivity

- (1) Fuelcraft 200F and 202F series fuel pump assemblies manufactured by Hartzell Engine Technologies LLC (HET) with rotor P/N 025F-0001 installed.
  - (a) Affected fuel pump part numbers and serial numbers are found in Table 1 of this document.
  - (b) Affected 200F and 202F series fuel pumps shipped on or after Sept. 01, 2019 are affected by this Service Bulletin (SB).
  - (c) Fuel pump rotor P/N 025F-0001 shipped as piece-parts are not affected by this SB.
  - (d) Engine applications may include, but are not limited to, those listed in Table 2.

**NOTE:** Table 2 is for reference only and is not an all-inclusive list of aircraft affected by this SB. It is the responsibility of the owner/operator to verify whether an affected fuel pump may be installed.

**WARNING:** DO NOT USE OBSOLETE OR OUTDATED INFORMATION. PERFORM ALL INSPECTIONS OR WORK IN ACCORDANCE WITH THE MOST RECENT REVISION OF THIS SERVICE BULLETIN. INFORMATION CONTAINED HEREIN MAY BE SIGNIFICANTLY CHANGED FROM EARLIER REVISIONS. FAILURE TO COMPLY WITH THIS 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 [WWW.FUELCRAFT.AERO](http://WWW.FUELCRAFT.AERO) FOR THE MOST RECENT REVISION LEVEL OF THIS SERVICE BULLETIN.

##### B. Concurrent Requirements

- (1) None

##### C. Reason

- (1) Affected 200F and 202F series fuel pumps may contain a non-conforming rotor that could affect fuel pump performance.
- (2) Inspection of the fuel pump rotor is required for affected fuel pumps found in Table 1.
  - (a) Replacement of the fuel pump rotor is required on affected fuel pumps that are inspected not to be in compliance with this SB.

##### D. Description

- (1) This Service Bulletin provides Instructions for Continued Airworthiness (ICA).
- (2) This Service Bulletin provides instructions for repair of an affected fuel pump by installation of a new rotor P/N 025F-0001 or replacement of the fuel pump with one not affected by this SB.

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#### E. Compliance

- (1) Within twenty-five (25) hours time in service, at the next regularly scheduled inspection, or at next engine servicing, whichever occurs first, inspect the affected fuel pump in accordance with the Accomplishment Instructions of this SB.
- (2) Repair or replacement of an affected fuel pump 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) Labor is negligible for identification and inspection when performed in conjunction with regularly scheduled maintenance required by the engine/aircraft manufacturer or by aircraft documentation review.
- (2) Up to one and a half (1.5) hours labor required for removal and installation of the fuel pump.

#### H. References

- (1) Applicable aircraft POH or AFM.
- (2) Aircraft maintenance manual (as applicable).
- (3) Engine Service Instructions or maintenance manual (as applicable).
- (4) *HET Fuel Pump Overhaul Manual*, P/N 200201-0000 Rev. K or latest FAA approved revision.

#### I. Other Publications Affected

- (1) None

#### J. Weight and Balance

- (1) No Change

## 2. Material Required

- A. Item numbers 5 and 6 of Figure 1 are required to comply with section 3.B. of this Service Bulletin, *Rotor Inspection*.
- B. The remaining indexed items are displayed as reference only for field repairs. Consult *HET Fuel Pump Overhaul Manual*, P/N 200201-0000 Rev. K or latest FAA approved revision as an official reference.

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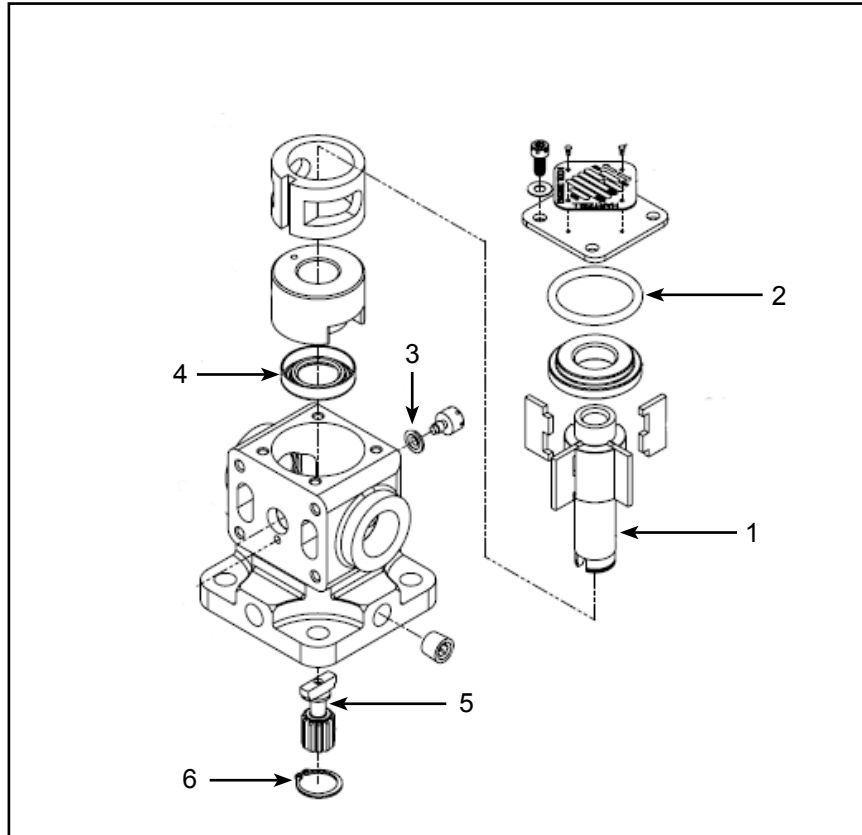


Figure 1 - Pump Housing

Index No.	Part Number	Description	FP P/N - QTY		
			200F-5002	202F-1001	202F-1002
1	025F-0001	Rotor	1	1	1
2	070F-0003	O-ring (rotor)	1	1	1
3	070F-5002	O-ring (set screw)	1	1	1
4	070F-0011	Seal	1	1	1
5	025F-0004	Drive Coupling	1	1	1
6	MS16624-1062	Retaining Ring	1	1	1

IPL - Figure 1 - Pump Housing

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#### 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 THE HET P/N 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 FUEL CRAFT WEBSITE (WWW.FUELCRAFT.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 ENGINE OR FUEL PUMP. 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, continue to 3.B, Rotor Inspection . If the fuel pump is not affected, continue to 3.E, Maintenance Record.
- (2) If positive identification cannot be made through engine or aircraft documentation, use engine/airframe service instructions or maintenance manual to gain access to the fuel pump to verify the fuel pump effectivity.
  - (a) If the unit is affected, proceed to section 3.B., Rotor Inspection.
  - (b) If the unit is not affected, install any components that were removed to gain access in accordance with the latest engine/airframe service instructions or maintenance manual. Continue to 3.E, Maintenance Record.

#### B. Rotor Inspection

- (1) Prior to forwarding an affected fuel pump to an authorized repair facility, perform the following inspection of the fuel pump rotor.
  - (a) Remove cooling shroud (if required) and fuel pump from the engine in accordance with engine and airframe service instructions.
  - (b) Remove retaining ring (6, Figure 1) and drive coupling (5) from the fuel pump. Discard retaining ring (6) and drive coupling (5).
- (2) Inspect the OD of the rotor shaft (Figures 2 and 2A) for a rotor inspection marking.
  - (a) If any portion of the rotor inspection marking is visible, the fuel pump is in compliance with this Service Bulletin.

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- 1) Install a new drive coupling (5) and retaining ring (6) in accordance with chapter 7 of HET manual 200201-0000 Rev. K or later FAA approved revision.
  - 2) Install fuel pump onto engine in accordance with applicable engine/airframe maintenance manual and service instructions. Continue to 3.D, Return to Service.
- (b) If the factory inspection marking **is not visible**, continue to 3.C, Corrective Action.

#### C. Corrective Action

##### (1) Fuel Pump Factory Repair

- (a) Forward the affected fuel pump to an approved HET service facility per the instructions contained in Appendix I-Commercial Assistance found at the end of this Service Bulletin.

**NOTE:** Retain all engine or aircraft supplied fittings from the fuel pump prior to return. **(HET CANNOT RETURN FITTINGS TO THE CUSTOMER.)**

- (b) Install factory repaired pump onto engine in accordance with applicable engine/airframe maintenance manual and service instructions. Continue to 3.D, Return to Service.

##### (2) Fuel Pump Field Repair

**NOTE:** Refer to the HET overhaul manual P/N 200201-0000 Rev. K or latest FAA approved revision for the following steps necessary to replace the rotor in the applicable model and part number fuel pump.

- (a) Remove cooling shroud (if required) and fuel pump from engine in accordance with engine and airframe service instructions.
- (b) Disassemble the applicable fuel pump in accordance with Section 3 of HET P/N 200201-0000 manual as appropriate for the applicable part number and model. Use only those sections required to remove the rotor.
- (c) Perform dimensional inspections on applicable components being retained in accordance with Section 5 of HET P/N 200201-0000 overhaul manual.
- (d) Replace the existing HET P/N 025F-0001 rotor with a new rotor not affected by this SB.
- (e) Assemble the fuel pump in accordance with Section 7 of the HET 200201-0000 overhaul manual as appropriate to the model number. Use only those sections required to install the rotor.
- (f) Test and adjust the applicable fuel pump in accordance with Section 2 of the HET P/N 200201-0000 overhaul manual as appropriate for the applicable part number and model. Use only those sections required to test the fuel pump and adjust the relief valve.

##### (3) Fuel Pump Replacement

- (a) Replace the fuel pump with one not affected by this SB in accordance with the engine airframe maintenance manual and service instructions and continue to 3.D, Return to Service.

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#### D. Return to Service

- (1) Perform the recommended fuel pump/fuel system 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.

#### E. Maintenance Record

- (1) For terminating action, make an engine logbook entry to indicate compliance with this Service Bulletin.

#### 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@Hartzell.aero
- (4) Address

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

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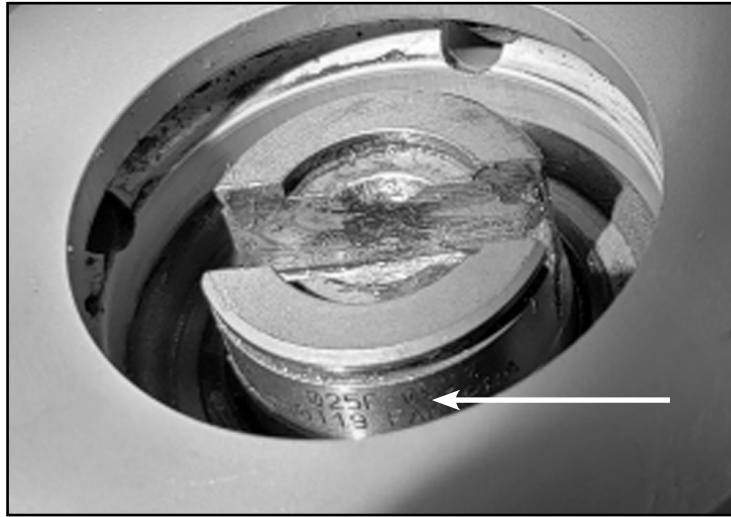


Figure 2 - Rotor Inspection -  
Retaining Ring (6) and Drive  
Coupling (5) Removed



Figure 2A - Rotor Inspection Marking

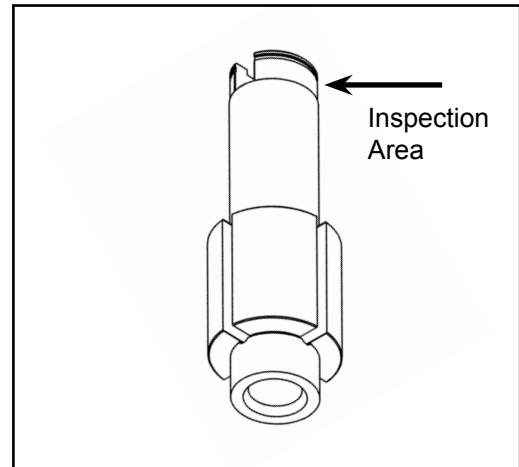


Figure 2B - Rotor Inspection Area

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Affected Fuel Pump P/N	Affected Fuel Pump Serial No.
200F-5002R	H-WJN012FP
	H-WKN001FP, H-WKN002FP, H-WKN003FP, H-WKN004FP, H-WKN005FP, H-WKN050FP, H-WKN052FP
202F-1001	H-WJN017FP
202F-1002	H-WKN048FP

**Table 1 - Part/Serial Number Effectivity**

Part Number HET Fuel Pump	Part Number Lycoming (Ref. Only)	Lycoming Engine Installation Eligibility
200F-5002R	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
202F-1001	62E22586	AEIO-540-D4D5
	Beechcraft P/N 50-389141-1	56TC, A56TC 60; A60; B60
202F-1002	62E22585 / LW-19012	TIO-540-S1AD
* The information in Table 3 is provided for reference only. The applicable engine manufacturer's Type Certification information should be consulted as the official source.		

**Table 2 - Engine Application & Cross Reference\***



# Service Bulletin Appendix

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#### 1. ELIGIBILITY:

- (1) Fuelcraft 200F and 202F series fuel pump assemblies manufactured by Hartzell Engine Technologies LLC (HET) with rotor P/N 025F-0001 installed.
  - (a) Affected fuel pump part numbers and serial numbers are found in Table 1 of Service Bulletin 084.
  - (b) Affected 200F and 202F series fuel pumps shipped on or after Sept. 01, 2019 are affected.
  - (c) Fuel pump rotor P/N 025F-0001 shipped as piece-parts are not affected.
  - (d) Engine applications may include, but are not limited to, those listed in Table 2 of Service Bulletin 084.

#### 2. COMMERCIAL ASSISTANCE PROGRAM:

The following will be provided with the submission of a completed Service Bulletin 084 Claim Form, copies of invoices showing breakdown of material and labor charges, and log book entries. **Any commercial assistance or other consideration shall expire twelve (12) calendar months from the original published date of Service Bulletin No. 084.**

##### A. Initial Inspection

- (1) One half (0.5) hour labor to gain access to the pump and perform inspection paid at a shop rate of up to \$75 per hour.

##### B. Pump Repair or Replacement

- (1) For field replacement of the rotor in an eligible fuel pump (refer to Appendix section 6 for a listing of potential service facilities), HET will provide:
  - (a) Materials Required can be found in SB 084 section 2.
    - 1) Contact HET Product Support for Kit availability.
  - (b) Labor for Corrective Action for affected fuel pumps will be paid at a shop rate of \$75 per hour up to the amount specified below:
    - 1) One (1.0) hour labor to replace the fuel pump rotor.
    - 2) Up to one and a half (1.5) hours labor for removal and installation of the fuel pump.
- (2) If returning an eligible fuel pump, HET will repair and return the unit.
  - (a) Customer **must** obtain an **RMA approval number** from HET **before** returning the fuel pump to HET for factory repair.
  - (b) Up to one and a half (1.5) hours labor for removal and installation of the fuel pump.

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### 200F & 202F Fuel Pump Rotor Inspection

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#### 3. COMMERCIAL ASSISTANCE ADMINISTRATION:

- A. Complete the Service Bulletin Claim Form attached to this appendix.
  - (1) Mail, e-mail, or fax the Service Bulletin 084 Claim Form to the attention of Product Support as indicated on the Claim Form.
- B. Upon receipt of the Service Bulletin Claim Form, HET will:
  - (1) If required by the Service Bulletin, ship the material required by section 2.A and 2.B, to the service provider indicated.
  - (2) The service provider must return proof of service within thirty (30) days or the service provider shall be invoiced for the HET supplied materials.
- C. For repair and removal/reinstallation charges:
  - (1) Aircraft/engine service facility must submit an invoice up to the amount specified in section 2, copies of logbook entries, and a completed Service Bulletin 084 Claim Form for reimbursement.

#### 4. WARRANTY STATEMENT:

- A. The sole warranty for the actions of Service Bulletin 084 are contained in the HET Limited Warranty Policy issued with the purchase of each new/overhauled fuel pumps (see terms and conditions therein).
- B. Commercial assistance may apply as stated in this Appendix.
- C. Issuance of Service Bulletin 084 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.

#### 5. CONTACT INFORMATION:

- A. Contact **HET Product Support** for all communications regarding the technical content of Service Bulletin 084.
  - (1) Phone +1.334.386.5400 (Option 2)
  - (2) Fax +1.334.386.5450.
  - (3) E-mail at [techsupport@Hartzell.aero](mailto:techsupport@Hartzell.aero)
  - (4) Address
    - Hartzell Engine Technologies LLC
    - 2900 Selma Highway,
    - Montgomery, AL 36108
    - USA

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#### 6. SERVICE FACILITIES:

- A. The following service facilities have the capability of servicing the HET P/N 200F and 202F fuel pumps and may provide a method of compliance with this Service Bulletin.

#### **Aero Recip**

540 Marjorie Street  
Winnipeg, Manitoba R3H 0S9  
CANADA  
Phone: +1.800.561.5541  
Email: info@aerorecip.com

#### **Aircraft Accessories of Oklahoma**

2740 N. Sheridan Rd.  
Tulsa, Oklahoma 74115  
Phone: 800.255.9924  
Email: airacc1@airacc.com

#### **AMETEK B&S Aircraft Parts & Accessories**

1414 South Mosley  
Wichita, KS 67211  
Phone: +1.316.264.2397  
Web Site: www.bsaircraft.com  
Email: sales.bsaircraft@ametek.com

#### **Nicholson McLaren**

12 Ivanhoe Road  
Hogwood Industrial Estate  
WOKINGHAM Berkshire RG40 4QQ  
United Kingdom  
Phone: +44.(0)118.973.8000  
Email: aviation.sales@n-mclaren.co.uk

#### **Professional Aircraft Accessories, Inc.**

14 East Main Street  
Amelia, OH 45102  
Phone: +1.513.732.3361  
Fax: +1.513.752.1332  
Email: mlg188@aol.com

#### **Quality Aircraft Accessories, Inc.**

5746 Apache St.  
Tulsa, OK 74115  
Phone: 877.833.6948  
Email: sales@qaa.com

# Service Bulletin Appendix

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#### SB 084 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: \_\_\_\_\_

#### Payment Information

Same as Owner:  Same as Facility:  Other:  \_\_\_\_\_ Name  
\_\_\_\_\_ Address

#### Component Information

Nomenclature: \_\_\_\_\_ Part Number: \_\_\_\_\_  
Serial Number: \_\_\_\_\_ (Fuel Pump) Date Removed: \_\_\_\_\_  
Part Time in Service: \_\_\_\_\_ (Fuel Pump) Original Date Installed: \_\_\_\_\_

#### For RMA Number

Send this SB 084 Claim Form to:

Hartzell Engine Technologies Product Support

Fax: +1.334.386.5450

E-mail: techsupport@hartzell.aero

**Hartzell Use Only - do not write below this line.**

#### RMA Number:

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(write in HET assigned RMA number)

Warranty No: \_\_\_\_\_ Authorized by: \_\_\_\_\_