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SERVICE BULLETIN

SERVICE BULLETIN No. 088

Turbocharger Center Housing Inspection

1. Planning Information

A. Effectivity

- (1) AeroForce turbocharger part numbers per Table-1, new or overhauled on or after 10/25/2018 using center housing P/N 441320-0006, are affected by this Service Bulletin (SB).
- (2) Any turbocharger field-overhauled on or after 10/25/2018 using center housing piece-part P/N 441320-0006 containing S/N 183776 and up is affected by this SB.

NOTE 1: New part number designation may appear as -x, -xx, or -xxxx (e.g., -1, -01, or -0001). These suffixes are equivalent part numbers with shared effectivity.

NOTE 2: Rebuilt part number designation may appear as -9xxx. Suffixes with a preceding -9 share effectivity with new part numbers (e.g., -9001 and -0001 share effectivity).

Turbocharger (is) P/N	(containing) Turbocharger S/N	(and) Center Housing P/N
408610-0001 408610-9001	H-WBR00126	H-WFR00167
	H-WDR00146	H-WHR00037
	H-WFR00160	H-WIR00048
	H-WFR00161	H-XAR00087
	H-WFR00162	H-XBR00196
	H-WFR00163	H-XLR00002
	H-WFR00164	H-XLR00051
	H-WFR00165	H-YDR00004
	H-WFR00166	-
406990-0004 406990-9004	-	441320-0006 with S/N 183776 & up

Table 1 - Effectivity

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B. Concurrent Requirements

- (1) None

C. Reason

- (1) HET has discovered a condition that may cause interference between the turbocharger center housing and the wheel shroud on affected turbocharger models.
 - (a) This condition has the potential to allow cracks or fractures to form in the wheel shroud resulting in reduced wheel shroud durability.
- (2) This SB is to advise the field of a known condition and to supply inspection criteria to identify affected turbocharger center housings.

D. Description

- (1) This Service Bulletin provides Instructions for Continued Airworthiness (ICA).

E. Compliance

- (1) Compliance with section 3.A of this SB is required at the next scheduled aircraft or engine inspection, whichever occurs first.
- (2) Compliance with the Accomplishment Instructions is the terminating action for this SB.

F. Approval

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

G. Manpower

- H. Three (3.0) man hours of labor are needed for removal, inspection, and replacement of the wheel shroud on affected turbocharger center housing(s).

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I. References

- (1) Manual 400600-0000, HET Turbocharger Maintenance and Overhaul, Rev. D or later FAA approved revision.
- (2) Applicable Aircraft Service Instructions or Maintenance Manual.
- (3) Applicable Aircraft AFM or POH.

J. Weight and Balance

- (1) No Change

2. Materials Required

- A. One new turbocharger center-housing wheel-shroud P/N 407657-0005 per affected turbocharger center housing.

3. Accomplishment Instructions

WARNING 1: THIS PROCEDURE MUST BE PERFORMED BY COMPETENT AND QUALIFIED PERSONNEL WHO ARE FAMILIAR WITH THE AIRFRAME AND ENGINE SYSTEM MAINTENANCE. FAILURE TO DO SO MAY RESULT IN PHYSICAL INJURY, EQUIPMENT DAMAGE AND/OR ECONOMIC LOSS.

WARNING 2: 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 THE AEROFORCE WEBSITE FOR THE MOST RECENT REVISION LEVEL OF THIS ALERT SERVICE BULLETIN, WWW.AEROFORCE.AERO.

CAUTION: REFER TO THE APPLICABLE MANUFACTURER'S MAINTENANCE MANUALS OR SERVICE INSTRUCTIONS TO GAIN ACCESS TO THE AIRFRAME OR TURBOCHARGER. IN ADDITION, ANY PREFLIGHT OR IN-FLIGHT OPERATIONAL CHECKS REQUIRE USE OF THE APPROPRIATE AFM OR POH.

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A. Inspection

- (1) If previous compliance cannot be verified through aircraft or engine maintenance records, use the same references to determine if an affected turbocharger has been installed. Refer to section 1.A, Effectivity.
- (2) If effectivity of the turbocharger cannot be established using aircraft or engine maintenance records, utilize the applicable aircraft engine maintenance manual to gain access to the turbocharger and inspect the turbocharger P/N and S/N against criteria found in section 1.A of this SB.
 - (a) If the turbocharger **is** affected, utilize the applicable aircraft maintenance manual to gain access to and remove the turbocharger center housing oil drain line from (lower) flange. Inspect the turbocharger center housing P/N and S/N against criteria found in section 1.A of this SB. (See Figure-1 for serial number illustration)
 - 1) If the turbocharger center housing **is** affected per section 1.A, continue to 3.B., Corrective Action.
 - 2) If the turbocharger center housing is **not** affected per 1.A, reinstall oil drain reservoir onto the turbocharger center housing lower port per applicable aircraft/engine maintenance manual and continue to 3.C. - Return to Service.
 - (b) If the turbocharger P/N is **not** affected per section 1.A, continue to 3.C., Return to Service.

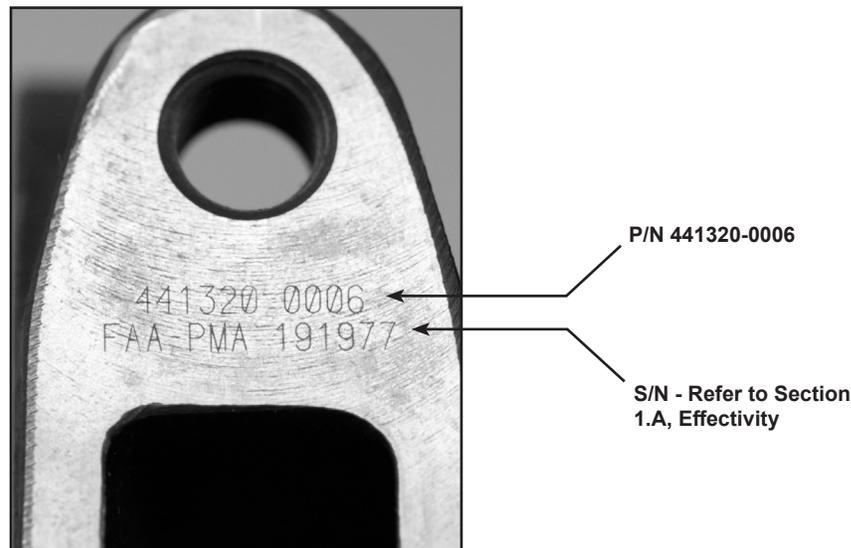


Figure-1 - Center Housing Identification

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B. Corrective Action

NOTE: HET requires that turbocharger repair be accomplished by an FAA certificated repair station (or foreign equivalent) or certificated A & P mechanic experienced in servicing turbocharger systems utilizing the turbocharger overhaul manual, HET P/N 400600-0000 Rev. D or later FAA approved revision.

- (1) Remove and discard wheel shroud P/N 407657-0002 in accordance with HET's Turbocharger Maintenance and Overhaul Manual P/N 400600-0000 Rev. D or later FAA approved revision.
- (2) Install a new wheel shroud P/N 407657-0005 in accordance with HET's Turbocharger Maintenance and Overhaul Manual P/N 400600-0000 Rev. D or later FAA approved revision. Continue to 3.C., Return to Service.

C. Return to Service

- (1) Close all access doors and covers opened to gain access to the turbocharger in accordance with applicable airframe and/or engine maintenance manual.
- (2) Perform the recommended turbocharger operational tests in accordance with the aircraft AFM or POH.

D. Maintenance Record

- (1) Make an appropriate logbook entry noting 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 - ATTN: Product Support
2900 Selma Highway
Montgomery, AL 36108
USA

Service Bulletin Appendix

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Turbocharger Center Housing Inspection

1. Eligibility:

- A. AeroForce turbocharger part numbers per Table-1 of SB-088, new or overhauled on or after 10/25/2018 using center housing P/N 441320-0006.
- B. Any turbocharger field-overhauled on or after 10/25/2018 using center housing piece-part P/N 441320-0006 containing S/N 183776 and up is affected.

2. Commercial Assistance Program:

The following will be provided with the submission of a completed Service Bulletin (SB) 088 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. 088.**

- A. Required material listed in section 2 of SB 088.
- B. Labor for inspection, removal, & installation compliance with SB 088 on an affected turbocharger CHRA will be paid at a shop rate of \$85 per hour, not to exceed US\$255 per affected turbocharger.
 - (1) Up to Three (3.0) man hours of labor are needed for removal, inspection, and replacement of the wheel shroud on affected turbocharger center housing(s).

3. Commercial Assistance ADMINISTRATION:

- A. Complete the Service Bulletin SB 088 Claim Form attached to this appendix.
 - (1) Mail, e-mail, or fax the SB 088 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 HET will:
 - (1) Ship the required material in accordance with section 2 (HET parts) 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 labor and parts listed in section 2:
 - (1) Aircraft/engine service facility or owner must submit an invoice up to the amount specified in section 2, copies of logbook entries, and a completed SB 088 Claim Form for reimbursement (*May be a copy of the original form provided*).

Service Bulletin Appendix

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Alternator Drive-End Bearing Replacement

4. WARRANTY STATEMENT:

- A The sole warranty for the actions of SB 088 are contained in the HET Limited Warranty Policy issued with the purchase of each new/overhauled alternators (see terms and conditions therein).
- B. Commercial assistance may apply as stated in this Appendix.
- C. Issuance of SB 088 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 electrical system.

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 +1.334.386.5410
- (3) E-mail at techsupport@Hartzell.aero
- (4) Address

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

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Turbocharger Center Housing Inspection

SB 088 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: Turbocharger CHRA _____ Part Number: _____

Serial Number: _____ (CHRA) Date Removed: _____

Part Time in Service: _____ (CHRA) Original Date Installed: _____

For RMA Number

Send this SB 088 Claim Form to:

Hartzell Engine Technologies Product Support

Fax: +1.334.386.5410

E-mail: techsupport@hartzell.aero

RMA Number:

(write in HET assigned RMA number)

Hartzell Use Only - do not write below this line.

Warranty No: _____ Authorized by: _____