

2900 Selma Highway  
 Montgomery, AL 36108 USA  
 Tel: 334-386-5400 Fax: 334-386-5450

# Alert Service Bulletin

## Alert Service Bulletin No. 210 Turbocharger Turbine Housing Inspection

### 1. Planning Information

#### A. Effectivity

- (1) AeroForce turbocharger P/N 406610-9005 rebuilt with turbine housing P/N 406722-0021 manufactured by Hartzell Engine Tech LLC (HET) and shipped between 6/01/2023 and 9/14/2023 are affected by this Alert Service Bulletin (ASB).
  - (a) Affected turbocharger assemblies and turbine housings purchased as piece parts from only Quality Aircraft Accessories (QAA) and Global Parts LTDA (VSE Aviation) are affected by this ASB.
  - (b) Refer to Table-1 for aircraft effectivity.
 

**NOTE:** Table-1 is for reference only and is not an all-inclusive list of aircraft affected by this ASB. It is the responsibility of the owner/operator to verify whether an affected turbocharger may be installed.
  - (c) Serial numbers affected
    - 1) Refer to Table-2 for turbine housing serial numbers affected.
    - 2) Serial number H-AFR00005 of turbocharger assembly P/N 406610-9005 is affected by this ASB.
      - a) The turbine housing of the above referenced turbocharger assembly is affected by this ASB.

**WARNING:** DO NOT USE OBSOLETE OR OUTDATED INFORMATION.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

HET Turbocharger P/N	Textron Aviation Inc. (Cessna)
406610-9005	TP206A, B, C, D, E, TU206A, B, C, D, E, F, TU206G, T207, A, T210F, G, H, J, K, L, M, N

**Table-1 - Aircraft Effectivity**

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Affected Turbocharger P/N	Affected Turbine Housing P/N	Affected Turbine Housing Serial Numbers
406610-9005	406722-0021	H232186 H232107 H232108 H232109 H232559 H232562 H232565 H232563 H232569 H232566 H232571 H232568 H232572 H232554 H232555 H232556 H232557 H232553

Table-2 - Serial Number Effectivity

#### B. Concurrent Requirements

- (1) None

#### C. Reason

- (1) Hartzell Engine Tech has discovered that affected turbine housings were produced that may not meet material specifications.
- (2) This ASB is to advise the field of a known condition and to supply inspection criteria to identify affected turbine housings.

#### D. Description

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

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#### E. Compliance

- (1) Comply with section 3, Accomplishment Instructions, within 25 aircraft-flight-hours from release date of this ASB or at the next scheduled aircraft inspection, whichever occurs first.
- (2) For affected turbine housings in inventory, return within 30 days from the original issue date of this Alert Service Bulletin or prior to installation, whichever occurs first.

#### 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.
- (2) Up to one and a half (1.5) hours labor required for removal and installation of the turbocharger.

#### 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 400600-0000 *Turbocharger Maintenance and Overhaul Manual*, Rev. E or later FAA approved revision.

#### I. Other Publications Affected

- (1) None

#### J. Weight and Balance

- (1) No Change

## 2. Material Required

- A. One new, overhauled, or rebuilt turbocharger of the part number removed not affected by this ASB.

## 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.

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**CAUTION 1:** DO NOT USE OBSOLETE OR OUTDATED INFORMATION. PERFORM ALL INSPECTIONS OR WORK IN ACCORDANCE WITH THE MOST RECENT REVISION OF THIS ALERT SERVICE BULLETIN AND THE APPLICABLE AIRCRAFT, ENGINE AND/OR THE HET P/N 400600-0000 MAINTENANCE AND OVERHAUL MANUAL. INFORMATION CONTAINED IN THESE MANUALS OR THIS ALERT SERVICE BULLETIN MAY BE SIGNIFICANTLY CHANGED FROM EARLIER REVISIONS. FAILURE TO COMPLY WITH THE ALERT 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 (WWW.AEROFORCE.AERO) FOR THE MOST RECENT REVISION LEVEL OF THIS ALERT SERVICE BULLETIN.

**CAUTION 2:** DO NOT DEPEND ON THIS ALERT SERVICE BULLETIN FOR GAINING ACCESS TO THE ENGINE OR TURBOCHARGER. 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. Turbocharger Identification

- (1) If positive identification of the turbocharger model and serial number can be made through the engine or aircraft documentation, and the turbocharger **is** affected per 1.A, continue to 3.B., Turbine Housing Identification. If the turbocharger is **not** affected, continue to 3.E.(2), Maintenance Record.
- (2) If positive identification cannot be made through engine or aircraft documentation, gain access and locate the data tag on the turbocharger assembly to verify effectivity.
  - (a) If the unit **is** affected, continue to section 3.B., Turbine Housing Identification.
  - (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.(2), Maintenance Record.

#### B. Turbine Housing Identification

- (1) Gain access to the turbocharger inlet flange in accordance with the latest engine/airframe service instructions or maintenance manual.
- (2) Locate and record the serial number located on the turbine housing inlet flange. See Figure-1.
  - (a) If the turbine housing serial number **is** affected, continue to section 3.C., Corrective Action.
  - (b) If the turbine housing serial number 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.(2), Maintenance Record.

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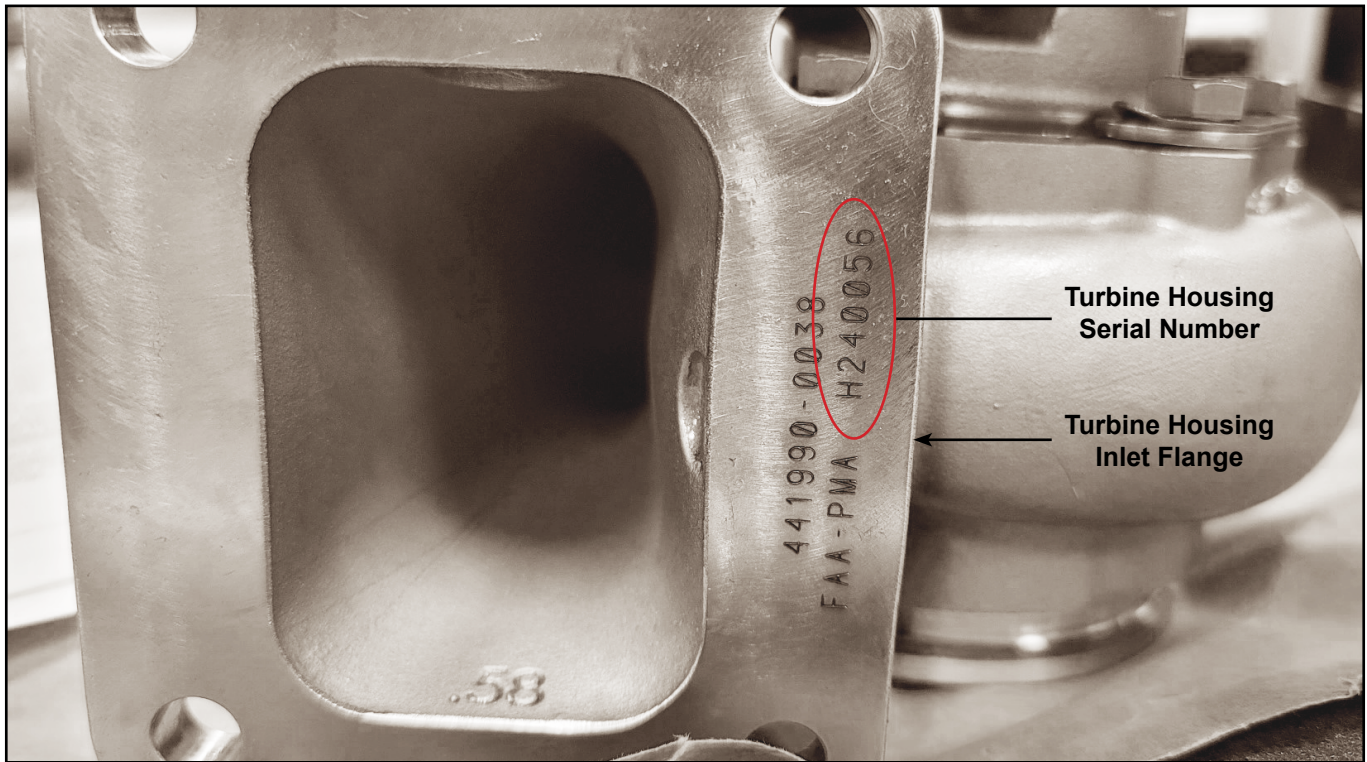


Figure-1 - Turbocharger Turbine Housing Serial Number Location\*

\* Reference to serial number location only. Turbo housing P/N shown is not affected.

#### C. Corrective Action (1) or (2)

- (1) Replace the affected turbine housing with one of the same part number not affected by this ASB.
- (2) Replace affected turbocharger assembly with a new, overhauled, or rebuilt turbocharger of the part number not affected by this ASB.

#### D. Return to Service

- (1) Perform the recommended turbocharger 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.

#### E. Maintenance Record

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

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#### 4. Contact Information

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

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

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

# **ALERT SERVICE BULLETIN APPENDIX**

## **ALERT SERVICE BULLETIN No. 210**

### **Turbocharger Turbine Housing Inspection**

#### **1. Eligibility:**

- A. AeroForce turbocharger P/N 406610-9005 rebuilt with turbine housing P/N 406722-0021 manufactured by Hartzell Engine Tech LLC (HET) and shipped between 6/01/2023 and 9/14/2023 are affected.
- B. Refer to Table-1 of Alert Service Bulletin (ASB) #210 for aircraft affected.

#### **2. Commercial Assistance Program:**

The following will be provided with the submission of a completed ASB 210 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 ASB #210.**

- A. Required materials listed in section 2 of ASB #210.
- B. Labor for inspection, removal, & installation of an affected turbocharger will be paid at a shop rate of \$85 per hour, not to exceed US\$128 per affected turbocharger.
  - (1) Up to one and a half (1.5) hours labor required for removal and installation of the turbocharger..

#### **3. Commercial Assistance ADMINISTRATION:**

- A. Complete the ASB #210 Claim Form attached to this appendix.
  - (1) Mail, e-mail, or fax the ASB #210 Claim Form to the attention of Product Support as indicated on the ASB Claim Form.
- B. Upon receipt of the ASB Claim Form, Hartzell Engine Tech LLC will:
  - (1) Ship the required material in accordance with section 2 of ASB #210 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 ASB #210 Claim Form for reimbursement (*May be a copy of the original form provided*).

# **ALERT SERVICE BULLETIN APPENDIX**

## **ALERT SERVICE BULLETIN No. 210**

### **Turbocharger Turbine Housing Inspection**

#### **4. WARRANTY STATEMENT:**

- A. The sole warranty for the actions of ASB #210 are contained in the HET Limited Warranty Policy issued with the purchase of each new/overhauled turbocharger (see terms and conditions therein).
- B. Commercial assistance may apply as stated in this Appendix.
- C. Issuance of ASB #210 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 Alert Service Bulletin.
  - (1) Phone +1.334.386.5400 (Option 2)
  - (2) Fax +1.334.386.5410
  - (3) E-mail at [techsupport@Hartzell.aero](mailto:techsupport@Hartzell.aero)
  - (4) Address
    - Hartzell Engine Tech LLC
    - 2900 Selma Highway,
    - Montgomery, AL 36108
    - USA



# ALERT SERVICE BULLETIN APPENDIX

## ALERT SERVICE BULLETIN No. 210

### Turbocharger Turbine Housing Inspection

#### ASB 210 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 Assembly \_\_\_\_\_ Part Number: \_\_\_\_\_

Serial Number: \_\_\_\_\_ (TC) Date Removed: \_\_\_\_\_

Part Time in Service: \_\_\_\_\_ (TC) Original Date Installed: \_\_\_\_\_

For RMA Number

Send this ASB #210 Claim Form to:

Hartzell Engine Tech 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: \_\_\_\_\_