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SERVICE BULLETIN

SERVICE BULLETIN No. 096

Alternator Bearing Retainer Replacement

1. Planning Information

A. Effectivity

- (1) New or overhauled alternator P/Ns ALT-9522, ALV-9610, ALX-9524, ES-6024D, & ES-10024 shipped by Hartzell Engine Tech LLC between 10/25/2022 and 11/29/2022 are affected by this Service Bulletin (SB).
 - (a) Alternators and aircraft/engine model/series affected by this SB are shown in Table 1.

NOTE: Table 1 is for reference only and is not an all-inclusive list of engines affected by this SB. It is the responsibility of the owner/operator to verify whether an affected alternator may be installed.

- (b) Serial numbers W101194 thru W112640 are affected by this SB.

WARNING: DO NOT USE OBSOLETE OR OUTDATED INFORMATION.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 THE PLANE-POWER WEBSITE, WWW.PLANEPOWER.AERO, FOR THE MOST RECENT REVISION LEVEL OF THIS SERVICE BULLETIN.

B. Concurrent Requirements

- (1) None

C. Reason

- (1) Alternators listed in section 1.A could contain a bearing retainer, P/N ALA-36, with inadequate corrosion resistant plating.
 - (a) This condition may result in loss of electrical power generation capability and/or engine damage.
- (2) This SB is to advise the field of a known condition and to supply inspection criteria to identify affected alternators.

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D. Description

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

E. Compliance

- (1) **IMMEDIATE:** If a loss of alternator output or erratic output indication occurs during flight, land as soon as practicable. Comply with this Service Bulletin prior to further flight.
- (2) Compliance with section 3.A is required at the next annual aircraft/engine inspection but no later than 12 calendar months from issuance of this Service Bulletin, whichever occurs first.
- (3) Compliance with the Accomplishment Instructions is the terminating action for this Service Bulletin.

F. Approval

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

G. Manpower

- (1) Up to one (1.5) hours labor for alternator removal and installation.

H. References

- (1) Continental Aerospace Technologies' Manual M-0, *Standard Practice for Spark Ignited Engines*.
- (2) Applicable Continental Aerospace Technologies' Engine Maintenance Manuals and Service Publications.
- (3) Applicable Lycoming Engines' Maintenance and Service Publications.
- (4) Applicable Aircraft Service Instructions or Maintenance Manual.
- (5) Applicable Aircraft AFM or POH.

I. Weight and Balance

- (1) No Change

2. Materials Required

- A. One new or overhauled alternator of the part number removed, or a certified new or overhauled replacement part number not affected by this Service Bulletin.

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Alternator P/N	Aircraft/Engine Make	Aircraft/Engine Model/Series
ALT-9522, ALT-9522R	Beech	D55, D55A, E55, E55A, 58 58A, 95-C55, 95-C55A
ALV-9610	Continental	IO-520-B , BA, BB, C, CB, M, MB, TSIO-520-B, BB, BE, D, DB, E, EB, J, JB, K, KB, L, LB, N, NB, U, UB, VB, WB, GTSIO-520-C, D, F, G, H, K, L, M, N, R, IO-520-A, B, C, G, N, P, R, TSIO-550-A, B, C, E, TSIOL-550-A, B, C
	Beech	E55, E55A, 58, 58A
	Lycoming	TIGO-541-C1A, D1A, D1B, E1A, G1AD
ALX-9524, ALX-9524R	Lycoming	IO-520-B, -C
ES-6024D	Beechcraft	F33A, F33C, S/N's CE0929 & after, CJ0156, 36, A36, G36, A36TC, B36TC, S/N's A0159 & after, E1766 thru E3629, E3631thru E3635, D55, D55A, E55, E55A, With Beech kit 55-3020, E55, E55A, S/N's TE-768-TE-999, 58, 58A, S/N's TH-1 - TH-9999, G58, S/N's TH-2125-TH-9999)
	Continental	IO-520-B, BA, BB, C, CB, M, MB, IO-550-A, B, C, G, N, P, R TSIO-520-B, BB, BE, D, DB, E, EB, J, JB, K, KB, L, LB, N, NB, U, UB, VB, WB, GTISO-520-C, D, H, K, L, M, N, TSIO-550-A, B, C, E
ES-10024	Continental	IO-550-A, -B, -C, -D, -E, -F, -G, -L, -N, -P, -R, IOF550-B, -C, -D, -E, -F, -L, -N, -P, -R

Table 1 - Alternator Aircraft/Engine Effectivity

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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 PLANE-POWER WEBSITE FOR THE MOST RECENT REVISION LEVEL OF THIS SERVICE BULLETIN, WWW.PLANEPOWER.AERO.

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

A. Inspection

- (1) If previous compliance cannot be verified through aircraft or engine maintenance records, use the same references to determine if an affected alternator has been installed. Refer to section 1.A, Effectivity.
- (2) If effectivity of the alternator cannot be established using aircraft or engine maintenance records, utilize the applicable aircraft engine maintenance manual to gain access to the alternator and inspect the alternator against criteria found in section 1.A of this SB.
 - (a) If the alternator **is** affected per section 1.A, continue to 3.B. - Corrective Action.
 - (b) If the alternator is **not** affected per section 1.A, continue to 3.C. - Return to Service.

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B. Corrective Action

- (1) Remove the alternator from the engine in accordance with the latest revision of the aircraft and/or engine manufacturer's maintenance manual.
- (2) Install a new or overhauled alternator in accordance with applicable engine manufacturer's maintenance manual. Refer to 2.A, Materials Required.
- (3) Reconnect alternator electrical connections and cooling hardware in accordance with applicable aircraft manufacturer's maintenance manual.
- (4) Perform an operational test and check of the alternator in accordance with applicable aircraft AFM or POH.

C. Return to Service

- (1) Close all access doors and covers opened to gain access to the alternator in accordance with applicable airframe and/or engine maintenance manual.

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 Tech LLC - ATTN: Product Support
2900 Selma Highway
Montgomery, AL 36108
USA

Service Bulletin Appendix

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1. Eligibility:

A. New or overhauled alternator P/Ns ALT-9522, ALV-9610, ALX-9524, ES-6024D, & ES-10024 shipped by Hartzell Engine Tech LLC between 10/25/2022 and 11/29/2022 are affected by Service Bulletin (SB) 096.

(1) Engine model/series affected are shown in Table 1 of SB 096.

B. Serial numbers W101194 thru W112640 are affected.

2. Commercial Assistance Program:

The following will be provided with the submission of a completed SB 096 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. 096.**

A. Required material listed in section 2 of SB 096.

B. Labor for inspection, removal, & installation compliance with SB 086 on affected alternator will be paid at a shop rate of \$85 an hour up to the amount specified below:

(1) Up to one and a half (1.5) man-hours of labor are needed for removal and installation of the alternator.

3. Commercial Assistance ADMINISTRATION:

A. Complete the Service Bulletin SB 096 Claim Form attached to this appendix.

(1) Mail, e-mail, or fax the SB 096 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 Tech LLC HET will:

(1) Ship the required material in accordance with section 2 (HET parts) to the service provider indicated. See Recommended Service Providers, 5.B.

(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 096 Claim Form for reimbursement (*May be a copy of the original form provided*).

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4. WARRANTY STATEMENT:

- A The sole warranty for the actions of SB 096 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 096 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 Tech LLC
2900 Selma Highway,
Montgomery, AL 36108
USA

- B. Recommended Service Provider

Quality Aircraft Accessories (QAA)
5746 E Apache St.
Tulsa, OK 74115
Phone: +1.918.835.6948
Fax: +1.918.835.2804
RSN: QYIR334Y

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SB 096 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: Alternator _____ Part Number: _____
Serial Number: _____ (Alternator) Date Removed: _____
Part Time in Service: _____ (Alternator) Original Date Installed: _____

For RMA Number

Send this SB 096 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: _____