



2900 Selma Highway
Montgomery, AL 36108 USA
Tel: 334-386-5400 Fax: 334-386-5450
<http://www.hartzell.aero>

Service Bulletin

Service Bulletin No. 064

Alternator Model ALV-9610 Series Through Bolt Inspection for Proper Torque

1. Planning Information

A. Effectivity

- (1) Hartzell Engine Technologies LLC (HET) model ALV-9610 alternators with serial numbers prior to H-P060614 are affected by this Service Bulletin.

NOTE: The affected alternators are used in various installations. The ALV-9610 alternator Model eligibility may be found in FAA/PMA approval PQ1383CE on HET Supplement 2 and 5.

WARNING: DO NOT USE OBSOLETE OR OUTDATED INFORMATION. PERFORM ALL INSPECTIONS OR WORK IN ACCORDANCE WITH THE MOST RECENT REVISION OF THIS SERVICE BULLETIN. THE INFORMATION CONTAINED IN THIS SERVICE BULLETIN 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 HET WEBSITE FOR THE MOST RECENT REVISION LEVEL OF THE SERVICE BULLETIN.

B. Concurrent Requirements

- (1) None

C. Reason:

- (1) Affected alternator model ALV-9610 may have a condition where the flat washers under the through bolts impinge upon a cast fillet radius in the alternator housing through bolt boss. This condition may result in loss of through bolt torque.
- (2) An inspection to determine applicability of the ALV-9610 alternator and re-torque of each of the four through bolts if applicable, is required.
- (3) Regulatory action is unknown.

D. Description

- (1) This Service Bulletin provides Instructions for Continued Airworthiness (ICA).
- (2) This Service Bulletin requires an inspection to determine applicability and instructions to re-torque the four through bolts if required.

Service Bulletin

Service Bulletin No. 064

Alternator Model ALV-9610 Series Through Bolt Inspection for Proper Torque

E. Compliance

- (1) At each required inspection until reaching 250 hours TSN (time since new) inspect affected ALV-9610 alternators for through bolt torque in accordance with the Accomplishment Instructions of this Service Bulletin.
- (2) Compliance with the Accomplishment Instructions in this Service Bulletin per 1.E(1) at 250 hours TSN 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) Approximately .25 man hour (15 minutes) is required when accomplished at regularly scheduled inspection.

H. Weight and Balance

- (1) No change.

I. Electrical Load Data

- (1) No change.

J. References

CAUTION: DO NOT USE OBSOLETE OR OUTDATED INFORMATION. PERFORM ALL INSPECTIONS OR WORK IN ACCORDANCE WITH THE MOST RECENT REVISION OF A DOCUMENT.

- (1) Applicable aircraft and/or engine maintenance or service manual.
- (2) FAA/PMA approval document PQ1383CE, HET Supplement 2 and 5.

K. Other Publications Affected

- (1) None.

2. Material Information

A. Appropriate length of .032 inch stainless steel safety wire.

Optional use: One (1) each, Safety-T-Cable™, HET P/N RX-1961.

Service Bulletin

Service Bulletin No. 064

Alternator Model ALV-9610 Series Through Bolt Inspection for Proper Torque

3. Accomplishment Instructions

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

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 (SB) AND THE APPLICABLE AIRCRAFT MAINTENANCE MANUAL AND/OR ENGINE SERVICE INSTRUCTIONS. INFORMATION CONTAINED IN THESE MANUALS OR THIS SB MAY BE SIGNIFICANTLY CHANGED FROM EARLIER REVISIONS. FAILURE TO COMPLY WITH THE SB 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 APPLICABLE ENGINE MANUFACTURER'S PUBLICATIONS AND/OR AIRCRAFT MAINTENANCE MANUAL INDEX FOR THE MOST RECENT REVISION LEVELS.

CAUTION: DO NOT DEPEND ON THIS SERVICE BULLETIN FOR GAINING ACCESS TO THE AIRCRAFT AND ENGINE. ACCESS REQUIRES 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. Identification (ALV-9610 Alternator)

- (1) If positive identification of the alternator model number and serial number CAN be made through the aircraft documentation and the alternator is affected, proceed to section 3.B Corrective Action.
- (2) If identification of the alternator model number and serial number CANNOT be made through aircraft documentation, visually inspect the alternator and locate the data tag to determine if the alternator is affected per section 1.A Effectivity.
 - a. If the alternator IS affected, proceed with section 3.B Corrective Action.
 - b. If the alternator IS NOT affected, proceed to section 3.D(1) Maintenance Record at the completion of the regularly scheduled inspection.

B. Corrective Action:

- (1) Remove the safety wire or safety cable from the head of the through bolts of the affected alternator. Refer to Figure 1.

CAUTION: DO NOT LOOSEN THE THROUGH BOLTS BEFORE APPLYING TORQUE.

- (2) Using a 3/16 hex stock tool, torque the through bolts to 45 to 50 in-lbs one at a time in a cross pattern using a calibrated torque wrench.
- (3) Properly install .032 inch stainless steel safety wire or optional Safety-T-Cable™, HET P/N RX-1961 at the head of the through bolts. Tool requirements and Installation information for Safety-T-Cable™ may be found at <http://www.dmctools.com>.

Service Bulletin

Service Bulletin No. 064

Alternator Model ALV-9610 Series Through Bolt Inspection for Proper Torque

C. Return to Service

- (1) Inspect the alternator installation on aircraft or engine as prescribed in the applicable aircraft maintenance manual and/or engine service instruction of the latest revision.
- (2) Perform the recommended functional tests in accordance with the appropriate aircraft maintenance manual and POH or AFM.

D. Maintenance Record

- (1) Make an aircraft logbook entry to indicate repetitive compliance with this Service Bulletin noting when the next inspection is due.
 - a. Compliance with the Accomplishment Instructions in this Service Bulletin upon reaching 250 hours TSN is the terminating action for 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@HartzellEngineTech.com.
- (4) Address

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

Service Bulletin

Service Bulletin No. 064

Alternator Model ALV-9610 Series Through Bolt Inspection for Proper Torque

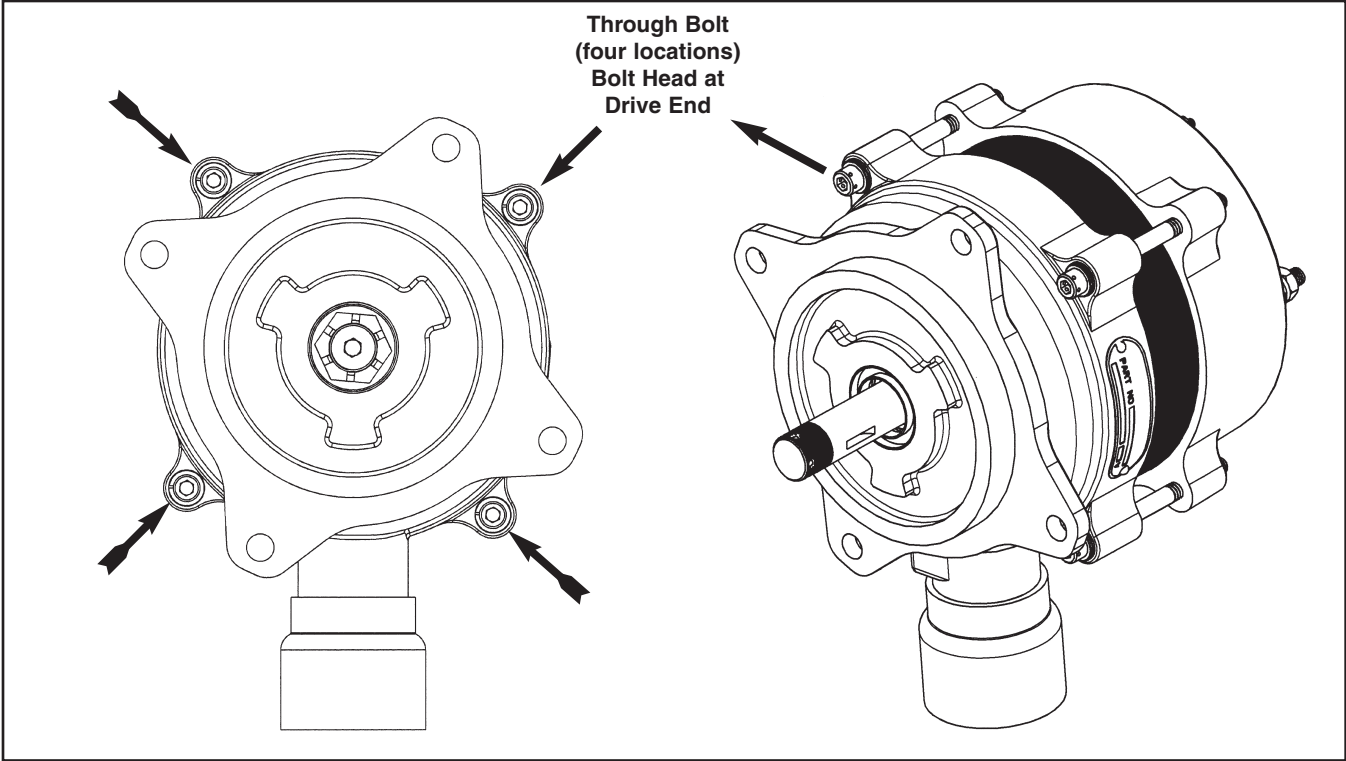


Figure 1 - Typical ALV-9610 Alternator

Service Bulletin

Service Bulletin No. 064

Alternator Model ALV-9610 Series Through Bolt Inspection for Proper Torque

INTENTIONALLY LEFT BLANK