



SERVICE BULLETIN

Service Bulletin No. 077

Alternator Nameplate Inspection

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

1. Planning Information

A. Effectivity

- (1) Plane-Power model ES-4001 alternators manufactured by Hartzell Engine Technologies (HET) are affected by this Service Bulletin (SB).
- (2) The following serial numbers are affected by this SB:

H-Q011058	H-Q011061
H-Q011059	H-Q011062
H-Q011060	H-Q011063

- (3) Aircraft Type/Model affected by this SB are shown in Table 1 – Alternator Aircraft Effectivity.

NOTE: Table 1 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 alternator 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WARNING: DO NOT USE OBSOLETE OR OUTDATED INFORMATION.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 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) HET has discovered alternators listed in section 1.A of this SB were shipped with an improper voltage rating displayed on the nameplate.
- (2) The nameplate displays an incorrect rating of 28v. The correct rating should read 15v.
- (3) Operating an affected alternator at 28v could lead to failure of the alternator.

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D. Description

- (1) This Service Bulletin provides instructions for inspection and replacement of affected alternator data tag.

E. Compliance

- (1) Compliance with section 3.A of this SB is required no later than the next regularly scheduled aircraft inspection.
- (2) Compliance with section 3.B of this SB is required no later than twelve (12) calendar months from release date of this SB.
- (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) Negligible when performed at regularly scheduled maintenance interval.

H. References

- (1) Aircraft maintenance manual (as applicable).

I. Weight and Balance

- (1) No Change

2. Material Required

A. One (1) ES-4001 alternator nameplate P/N 50466 with correct voltage rating displayed.

- (1) Contact HET Customer Support to procure a pre-printed replacement nameplate.

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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 maintenance manual to gain access to the alternator and inspect the alternator serial number against affected serial numbers found in section 1.A of this SB.
- (3) If the alternator serial number is affected per section 1.A, inspect alternator nameplate for correct voltage rating. Refer to Figures 1 and 2.
 - (a) If **INCORRECT** voltage rating is observed, continue to 3.B, Corrective Action.

NOTE: Incorrect voltage rating is defined as any voltage found on the nameplate of an affected alternator other than 15v.

- (b) If **CORRECT** voltage rating is observed, continue to 3.C, Return to Service.

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Plane-Power Alternator P/N	Aircraft Make	Aircraft Model/Series
ES-4001	Cessna	150; F150; A150; 172; F172

Table 1 - Alternator Aircraft Effectivity

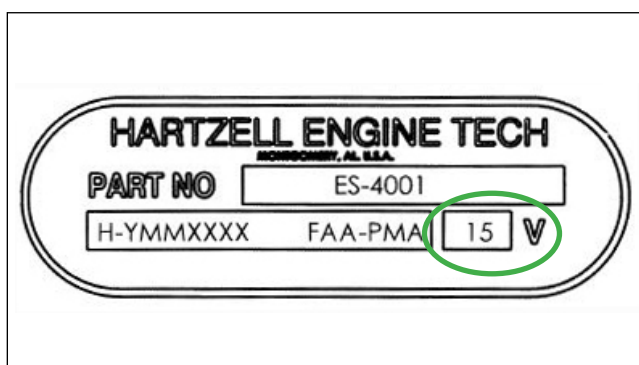


Figure 1 - **CORRECT** Voltage Rating

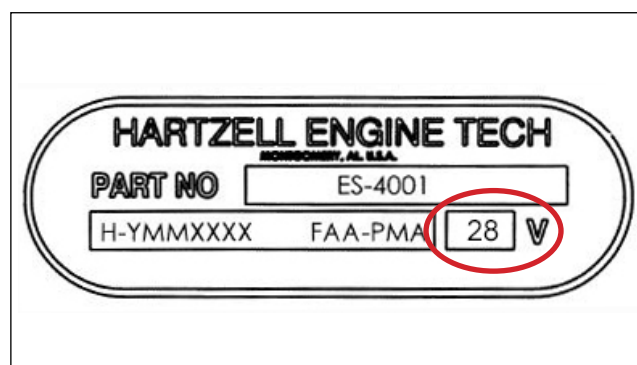


Figure 2 - **INCORRECT** Voltage Rating

B. Corrective Action

- (1) Using a non-metallic scraper, remove the nameplate from the affected alternator.
- (2) Clean alternator housing with denatured alcohol prior to installing the new nameplate.
- (3) Install self-adhesive nameplate P/N 50466 containing the correct voltage rating.

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) For terminating action, make an aircraft logbook entry to indicate compliance with this Service Bulletin.

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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)

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(3) E-mail at techsupport@HartzellEngineTech.com

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