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MANDATORY

SERVICE BULLETIN

DATE: April 02, 2025 Service Bulletin No. 656A
Engineering design data in this service document is FAA approved.

SUBJECT: Replacement of 6-Cylinder Electronic Ignition System (EIS)

MODELS AFFECTED: All 6-cylinder EIS used in a helicopter application operating in any category.

TIME OF COMPLIANCE: For Engines with the Original EIS: Before further flight for engines with more than 100 hours, Time-In-Service on the EIS. For Engines with more than 50 hours, but less than 100 hours, Time-In-Service on the EIS: Within the next 10 hours of operation. For Engines with a replacement EIS: Not to exceed 50 hours, Time-In-Service on the EIS.

REASON FOR REVISION: Revised MODELS AFFECTED. Added ICA statement. Remove Rev R as terminating action and update the date to the present year.

NOTICE: Incomplete review of all the information in this document can cause errors. Read the entire Service Bulletin to make sure you have a complete understanding of the requirements.

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

Lycoming has identified an internal wear issue with some EIS units used on 6-cylinder engines in rotary wing applications. This internal wear progresses over time and can lead to engine power fluctuations. This bulletin requires the replacement of EIS units in 6-cylinder helicopter applications. Affected 6-cylinder EIS part numbers are 66K6D3SN-03, 66K6D3SN-02, and 66K6D3SN-01.

Remove and replace the EIS units and Magneto Drive Cushions P/N 68H22624 (Qty.2) at 50-hour intervals in accordance with the latest revision of Lycoming Service Instruction No. 1569.

Terminating action to the repetitive EIS replacement will be installing a Rotocraft-Specific-EIS-part-number unit (part numbers to be determined), estimated to be available in the later part of 2025.

Using the phone numbers or email address listed in this bulletin, please contact Lycoming Engines Technical Support, and provide the following information. This information will be used to assist in tracking and future customer assistance.

- Engine Serial Number
- EIS Serial Number
- Engine/EIS hours at replacement.
- Aircraft Tail Number
- Aircraft Serial Number



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Warranty Instructions and Replacement Parts for Engines/Parts Affected by Service Bulletin No. 656

NOTICE: To qualify for warranty, the removed EIS unit and drive cushions must be returned to Lycoming no later than 30 Days after receipt of the replacement EIS unit.

1. Contact Lycoming Technical Support with the information from Page 1 to be assigned a Service Record Number (SR).
2. Contact an Authorized Lycoming Distributor to order a replacement EIS unit and replacement drive cushions (reference the assigned SR Number).
3. Upon receipt, complete the installation procedure in accordance with the latest revision of Lycoming Service Instruction No. 1569.
4. Through the same Authorized Lycoming Distributor, file a warranty claim for:
 - A. Reimbursement of the replacement parts.
 - B. Associated Standard, Non-Expedited Freight.
 - C. Removal and Reinstallation Labor in accordance with the current applicable Lycoming Warranty Policy and latest revision of Lycoming's SSP-875 Removal and Installation Labor Allowance Guidebook.
 - D. Reference assigned SR Number in warranty claim.
5. Return the removed EIS and drive cushions directly to Lycoming Engines at the address below:
Lycoming Engines
652 Oliver Street
Williamsport, PA 17701
Attn: SB 656 EIS Returns

If you have any questions, contact Lycoming Technical Support by phone at 570-327-7222 or 877-839-7878 or by email to Technicalsupport@lycoming.com.

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