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MANDATORY

SERVICE BULLETIN

DATE: June 29, 2026 Service Bulletin No. 669
Engineering Aspects are
FAA Approved

SUBJECT: Hartzell Engine Tech (HET) Exhaust Bypass Valve Assembly

MODELS AFFECTED: TEO-540-C1A engines with HET P/N 47E31569

TIME OF COMPLIANCE: When Manifold Absolute Pressures are Instable

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 determined that exhaust bypass valves P/N 47E31569 installed on engines or sold as spares between May 24, 2024, and March 13, 2026, may contain suspect non-conforming internal compression spring sets. Spring pressure in the exhaust bypass valve assembly may not meet the load requirements set by the manufacturer and may cause instability in manifold absolute pressure (MAP).

Remove and quarantine unused 47E31569 exhaust bypass valves listed in table 2. Arrange for the return of unused bypass valves through the Lycoming Distributor from which they were originally procured. Order replacement inventory as needed.

If unstable MAP is observed, follow the required action in this Service Bulletin.

Required Action

1. Identify if your engine was shipped from Lycoming with an affected HET exhaust bypass valve based on serial numbers listed in table 1.
2. Identify whether you have any of the affected HET exhaust bypass valves listed in table 2 installed on your engine.
3. Replace with new exhaust bypass valve in accordance with the appropriate Lycoming maintenance publication for your engine model.
4. Make an appropriate logbook entry to document compliance with this Service Bulletin.



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Table 1
Engine Serial Numbers

| | | | |
|------------|------------|------------|------------|
| L-134-84A | L-136-84A | L-141-84A | L-143-84A |
| L-144-84A | L-147-84A | L-148-84A | L-152-84A |
| L-153-84A | L-154-84A | L-156-84A | L-162-84A |
| L-163-84A | L-164-84A | L-167-84A | L-168-84A |
| L-169-84A | L-170-84A | L-173-84A | L-174-84A |
| L-176-84A | L-186-84A | L-187-84A | L-189-84A |
| L-193-84A | L-197-84A | L-199-84A | L-200-84A |
| L-201-84A | L-202-84A | L-204-84A | L-207-84A |
| L-208-84A | L-213-84A | L-237-84A | L-274-84A |
| L-275-84A | L-276-84A | L-277-84A | L-278-84A |
| L-279-84A | L-280-84A | L-283-84A | L-284-84A |
| L-285-84A | L-286-84A | L-287-84A | L-288-84A |
| RL-139-84A | RL-142-84A | RL-145-84A | RL-196-84A |
| RL-203-84A | RL-214-84A | RL-216-84A | RL-218-84A |
| RL-239-84A | | | |

Table 2
Serial Numbers of Affect Exhaust Bypass Valves

| | | | |
|------------|------------|------------|------------|
| H-AFN00229 | H-AFN00230 | H-BCN00027 | H-BCN00028 |
| H-BCN00030 | H-BCN00031 | H-BCN00032 | H-BCN00033 |
| H-BCN00036 | H-BCN00037 | H-BCN00038 | H-BCN00039 |
| H-BCN00040 | H-BCN00041 | H-BCN00042 | H-BCN00044 |
| H-BCN00045 | H-BCN00046 | H-BCN00047 | H-BCN00048 |
| H-BCN00049 | H-BCN00050 | H-BCN00051 | H-BCN00052 |
| H-BCN00053 | H-BCN00054 | H-BCN00055 | H-BCN00056 |
| H-BCN00057 | H-BCN00059 | H-BCN00060 | H-BCN00061 |
| H-BCN00062 | H-BCN00063 | H-BCN00065 | H-BCN00066 |
| H-BCN00069 | H-BCN00070 | H-BCN00071 | H-BCN00072 |
| H-BCN00073 | H-BCN00074 | H-BCN00075 | H-BCN00076 |
| H-BCN00077 | H-BCN00083 | H-BCN00084 | H-BCN00085 |
| H-BCN00086 | H-BCN00087 | H-BCN00092 | H-BCN00093 |
| H-BCN00094 | H-BCN00096 | H-BCN00097 | H-BCN00098 |
| H-CAN00102 | H-CAN00104 | H-CAN00106 | H-CAN00107 |
| H-CAN00108 | H-CAN00109 | H-CAN00119 | H-CAN00120 |
| H-CAN00122 | H-CAN00127 | H-CAN00128 | H-CAN00129 |
| H-CAN00130 | H-CAN00133 | H-CAN00142 | H-CAN00143 |
| H-CAN00144 | H-CAN00145 | H-CAN00147 | H-CAN00148 |
| H-CAN00154 | H-CAN00155 | H-CBN00058 | H-CBN00061 |

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Warranty Instructions:

1. Contact an Authorized Lycoming Distributor to order a replacement HET exhaust bypass valve.
2. Upon receipt, complete the installation procedure.
3. Return the removed HET exhaust bypass valve part number 47E31569 to Lycoming Engines through the same Authorized Lycoming Distributor that ordered the replacement HET exhaust bypass valve part number 47E31569 and file a warranty claim for:
 - A. Reimbursement of the replacement parts.
 - B. Associated Freight.
 - C. Removal and Reinstallation Labor for inspection and installation in accordance with the current applicable Lycoming Warranty Policy and latest revision of Lycoming’s SSP-875 Removal and Installation Labor Allowance Guidebook. (Unless otherwise specified by Warranty/Tech Support)

NOTICE: Warranty consideration is available for 12 months from the date of issue of this Service Bulletin.

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

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