

Service Bulletin

Approved by Manufacturer

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B26-02

Initial Release

Date: March 31, 2026

Subject: SL12892 Thrust Button Material Deformation at Rocker Shaft Location.

1.0 ISSUE

Field reports have identified thrust buttons manufactured from incorrect material that were installed at the rocker shaft location. When exposed to normal engine operating temperatures, the affected thrust buttons may deform, soften, or melt.

Removal of the affected thrust buttons, inspection of the oil filter, and install approved replacement parts.

2.0 MODELS AFFECTED

The affected parts are known to be installed on Lycoming engine models: **AEIO-360**-B1F, -B1G6, -B2F, -B4A, -C1A; **AEIO-540**-D4B5; **HIO-360**-B1A, -B1B; **HO-360**-A1A, -B1A, -B1B; **IO-320**-A1A, -A2A, -B1A, -B1B, -B1C, -B1D, -B1E, -B2A, -C1A, -C1B, -D1A, -D1B, -D1C, -E1A, -E1B, -E2A, -E2B, -F1A; **IO-360**-B1A, -B1B, -B1C, -B1D, -B1E, -B1F, -B1F 6, -B1G6, -B2E, -B2F, -B2F6, -B4A; **IO-540**-C1B5, -C1C5, -C2C, -C4B5, -C4B5D, -C4C5, -C4D5, -C4D5D, -D4A5, -D4B5, -D4C5, -J4A5, -N1A5, -R1A5, -T4A5D, -T4B5, -T4B5D, -T4C5D; **IVO-360**-A1A; **O-235**-C, -C1, -C1A, -C1B, -C1C, -C2A, -C2B, -C2C, -E1, -E1B, -E2A, -E2B, -F1, -F1B, -F2A, -F2B, -G1, -G1B, -G2A, -G2B, -H2C, -J2A, -J2B, -K2A, -K2B, -K2C, -L2A, -L2C, -M1, -M2C, -M3C, -N2A, -N2C, -P1, -P2A, -P2C, -P3C; **O-290**-D, -D2, -D2A, -D2B, -D2C; **O-320**-No_Suffix, -A1A, -A1B, -A2A, -A2B, -A2C, -A2D, -A3A, -A3B, -A3C, -B1A, -B1B, -B2A, -B2B, -B2C, -B2D, -B2E, -B3A, -B3B, -B3C, -C1A, -C1B, -C2A, -C2B, -C2C, -C3A, -C3B, -C3C, -D1A, -D1B, -D1C, -D1D, -D1F, -D2A, -D2B, -D2C, -D2F, -D2G, -D2H, -D2J, -D3G, -E1A, -E1B, -E1C, -E1F, -E1J, -E2A, -E2B, -E2C, -E2D, -E2F, -E2G, -E2H, -E3D, -E3H, -H1AD, -H1BD, -H2AD, -H2BD, -H3AD, -H3BD; **O-360**-A1A, -A1AD, -A1C, -A1D, -A1F, -A1F6, -A1F6D, -A1G, -A1G6, -A1G6D, -A1H, -A1H6, -A1LD, -A1P, -A2A, -A2D, -A2E, -A2F, -A2G, -A2H, -A3A, -A3AD, -A3D, -A4A, -A4AD, -A4D, -A4G, -A4J, -A4K, -A4M, -A4N, -A4P, -A5AD, -B1A, -B1B, -B2A, -B2B, -B2C, -C1A, -C1C, -C1E, -C1F, -C1G, -C2A, -C2B, -C2C, -C2D, -C2E, -C4F, -C4P, -D1A, -D2A, -D2B, -E1AD, -E1A6D, -E1BD, -E2AD, -E2BD, -F1A6, -G1A6, -J2A; **O-540**-A1A, -A1A5, -A1B5, -A1C5, -A1D, -A1D5, -A2B, -A3D5, -A4A5, -A4B5, -A4C5, -A4D5, -A4E5, -B1A5, -B1B5, -B1D5, -B2A5, -B2B5, -B2C5, -B4A5, -B4B5, -D1A5, -E4A5, -E4B5, -E4C5, -F1A5, -F1B5, -G1A5, -G2A5, -H1A5, -H1A5D, -H1B5D, -H2A5, -H2A5D, -H2B5D, -J1A5D, -J1B5D, -J1C5D, -J1D5D, -J2A5D, -J2B5D, -J2C5D, -J2D5D, -J3A5, -J3A5D, -J3C5D, -L3C5D; **TIO-540**-C1A, -E1A, -G1A, -H1A; **VO-360**-A1A, -A1B, -B1A

3.0 COMPLIANCE

This Service Bulletin applies to aircraft engine models listed that may have been installed with thrust buttons, part number SL12892, shipped between **April 28, 2025, and February 25, 2026**.

Accomplish this Service Bulletin before further flight if evidence of oil system contamination is found, or at the next **maintenance opportunity, 100-hour inspection or annual, whichever occurs first**.

4.0 ACTION

Failure to comply with this Service Bulletin may result in continued oil system contamination, rocker shaft movement, drain-back restriction, rocker cover wear, and/or oil pooling.

NOTE: Perform all steps in accordance with the applicable engine maintenance manual.

4.1 Preparation

- A. Place the aircraft in a well-lighted, well-ventilated maintenance area and secure it to prevent inadvertent movement.
- B. Ensure the engine master switch is in the OFF position and the ignition system is disabled. Confirm that all magnetos are properly grounded in accordance with the applicable maintenance manual.
- C. Allow the engine to cool to ambient temperature prior to beginning work.
- D. Remove engine cowlings as necessary to gain access to the rocker box areas.
- E. Clean the exterior surfaces around the rocker covers to prevent loose debris or contamination from entering the engine during maintenance.
- F. Position approved containers beneath the engine as required to collect oil, residual fluids, or debris that may be released during inspection or disassembly.
- G. Ensure all required tools, replacement parts, and Service Kit B26-02 are available prior to commencing maintenance.

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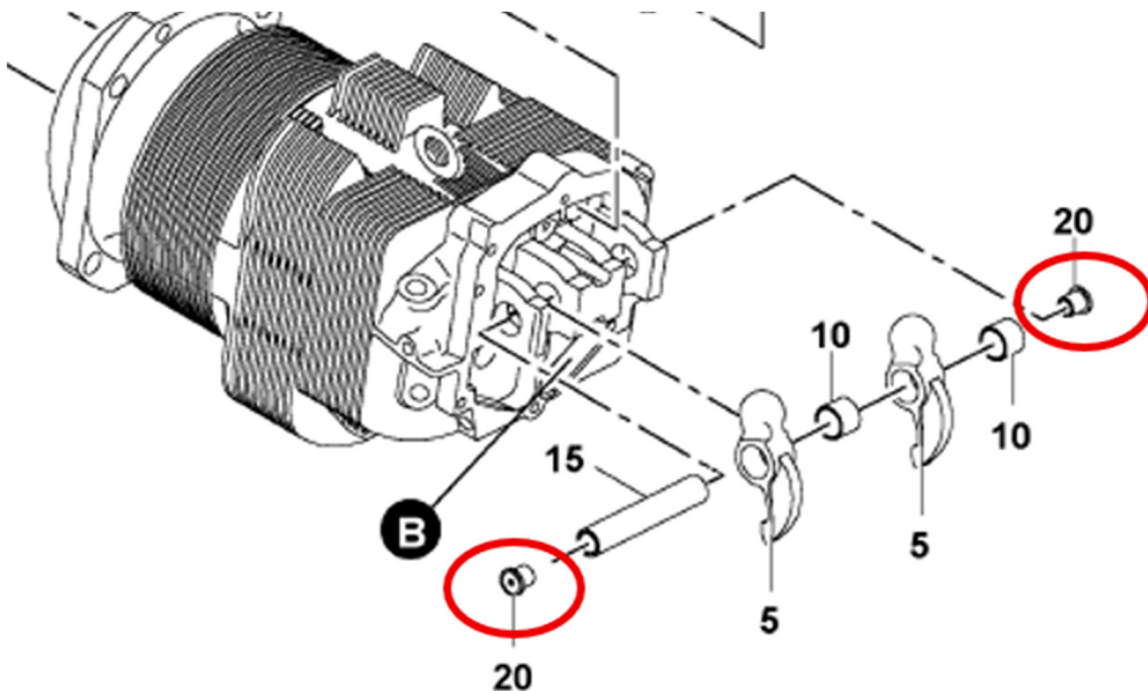
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4.2 Rocker Cover and Thrust Button Inspection

- A. Remove rocker covers, and gasket from the cylinder assembly, (discard rocker cover gasket).
- B. Inspect rocker box areas and rocker shafts for the following conditions:
 - Deformed/ Melted thrust buttons
 - Missing or partially missing thrust buttons
 - Inspect rocker cover area for material or residue
- C. Remove rocker shaft thrust buttons (20), part number SL12892, from each rocker shaft.
- D. Evaluate the condition of each removed thrust button and discard regardless of condition.



4.3 Conditional Oil System Inspection

Perform Steps 4.3.A through 4.3.J only if one or more thrust buttons are found to be **missing or partially missing or if material is found in rocker box area.**

- A. Drain the engine oil.
- B. Remove the oil filter.
- C. Inspect the removed oil filter element for evidence of thrust button material or other contamination.
- D. Remove the oil suction screen.
- E. Inspect the oil suction screen for evidence of thrust button material.
- F. Cut oil filter and inspect for evidence of thrust button material.
- G. If contamination is present, clean the oil suction screen using approved cleaning methods.
- H. Ensure drain back line is clear of material, sludge and debris with borescope or flushing with oil.
- I. Install the oil screen.
- J. Torque all fasteners to the values specified in the applicable engine maintenance manual.

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4.4 Installation

- A. Discard all removed thrust buttons regardless of condition.
- B. Install new thrust buttons using Service Kit **B26-02**.
- C. Install new rocker cover gaskets supplied in Service Kit **B26-02**.
- D. Reinstall rocker covers.
- E. Torque fasteners in accordance with the applicable engine maintenance manual.
- F. Make an engine logbook entry of compliance with Superior Air Parts Service Bulletin B26-02.

4.5 Oil Service

Perform this section **ONLY** if oil was drained in accordance with **Section 4.3**.

- A. Install a new oil filter.
- B. Service the engine with approved oil to the proper level.
- C. Perform an engine ground run and leak check.

4.6 WARRANTY

A. Uninstalled Inventory

- Identify all affected uninstalled thrust buttons and unopened inventory.
- Submit the completed Compliance Form either online or via email (pg 4 of this Service Bulletin).
- Upon receipt and review of the Compliance Form, Superior Air Parts Product Support will provide an RMA (Return Material Authorization) number and shipping labels.
- Return the affected thrust buttons to Superior Air Parts along with a copy of the completed Compliance Form and RMA using the provided shipping labels.

B. Installed Parts

- Perform the above-described inspection in parts 4.0 – 4.5.
- If one or more thrust buttons are found to be deformed, partially missing, or completely missing, submit the completed Compliance Form either online or via email (pg 4 of this Service Bulletin) with the indicated findings.
- Retain any recovered material removed from the oil filter, oil suction screen, rocker box area, or other engine components during compliance with this Service Bulletin. Product Support may request that these materials be returned for evaluation.
- Upon receipt and review of the Compliance Form, Superior Air Parts Product Support will provide further instructions, including return requirements, RMA issuance, and shipping documentation, if applicable.

If you need further assistance or have any questions, please contact:

Superior Air Parts Technical Product Support Contact Information:

Phone: 800-420-4727 <Option 3>

Email: productsupport@superiorairparts.com



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4.7 Uninstalled Parts Inventory

- A. Customers, distributors, engine builders, and maintenance facilities with unopened packages of thrust buttons, part number SL12892, are requested to complete the Compliance Form and report the quantity of unopened packages currently in inventory.
- B. Inventory from the affected production period may be identified by the following batch numbers:

250502-000027134	250519-000027072
250626-000027836	250630-000027855
250812-000028177	250828-000028323
250923-000028574	251201-000029223
251208-000029301	
- C. Do not install thrust buttons from the above batch numbers pending further guidance from Superior Air Parts.
- D. If inventory is on hand and the batch number cannot be verified, or if customers suspect inventory was received during the affected period of April 28, 2025, through February 25, 2026, and the product is opened, contact Superior Air Parts Product Support before installation.
- E. Submit the completed Compliance Form (as directed in section 4.6) to Superior Air Parts and include the quantity of affected inventory currently in stock. (Pieces and packages)

Compliance Form

If parts are not installed, see section 2

email to: productsupport@superiorairparts.com

Section 1

The aircraft to which this Service Bulletin will be applied:

Aircraft Make		Engine Model	
Aircraft Model		Engine S/N	
Aircraft Tail #		Total Time on Engine	

Cylinder Part Number

Serial Number	Total Hours	Serial Number	Total Hours

Mechanic / Repair Facility Performing Compliance:

Replacement Service Kit – Ship to Address:

Facility Name	
Address	
City, State Zip	
Phone	
Email	
Contact / Mechanic	

Owner Information:

Owner Name	
Address	
City, State Zip	
Phone	
Email	

Section 2

Replacements for unopened packages – Ship to Address:

Facility Name	
Address	
City, State Zip	
Phone	
Email	

Total UNOPENED packages to be replaced:

NOTE: If packages have been opened or are not in original Superior packaging, we can not confirm traceability and will not be able to replace these items. Contact Superior Product Support for assistance.