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# MANDATORY

## SERVICE BULLETIN

DATE: July 15, 2025 Service Bulletin No. 663  
Engineering design data in this service document is FAA approved.  
SUBJECT: Non-Conforming Counterweight Bushings  
MODELS AFFECTED: GO-435 Series  
GO, GSO, IGO, IGSO-480 Series (Except GO-480-B1A6 with the following  
Engine S/N's: L-567-28, L-569-28, L-573-28, L-574-28, L-575-28, L-576-28)  
VO, IGO, IGSO-540 Series  
TIO, TIGO-541 Series

TIME OF COMPLIANCE: Before further flight

**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 non-conforming counterweight bushings, P/N 71903-A, were shipped as spares from Lycoming Engines between May 10, 2024 and April 4, 2025 and non-conforming counterweight bushings, P/N 71903-B, were shipped as spares from Lycoming Engines between June 24, 2024 and April 4, 2025. The suspect counterweight bushings do not meet the required hardness and must be replaced with counterweight bushings shipped on or after April 5, 2025 before further flight. Failure to replace the non-conforming counterweight bushings could result in detuning, increased torsionals/vibrations, or counterweight washer or roller damage.

### Required Action:

If your engine was overhauled, repaired, or serviced with counterweight bushings, P/N 71903-A, shipped as spares from Lycoming Engines between May 10, 2024 and April 4, 2025 or counterweight bushings, P/N 71903-B, shipped as spares from Lycoming Engines between June 24, 2024 and April 4, 2025:

1. Order replacement counterweight bushings and all necessary parts from an Authorized Lycoming Distributor.
2. Replace the counterweight bushings in accordance with the applicable Lycoming overhaul manual or the latest revision of Service Instruction No. 1143.
3. Remove all suspect counterweight bushings, P/N 71903-A, shipped from Lycoming Engines between May 10, 2024 and April 4, 2025 and suspect counterweight bushings, P/N 71903-B, shipped from Lycoming Engines between June 24, 2024 and April 4, 2025 from your spares inventory and return them to Lycoming through the Authorized Lycoming Distributor where you purchased them.

### Warranty

If applicable, file a warranty claim. Please refer to your Lycoming Engine's Limited Warranty for procedures, details, and limitations related to your warranty. Information is available online at [www.lycoming.com/Warranty](http://www.lycoming.com/Warranty). If necessary, contact an Authorized Lycoming Distributor for assistance.



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