



652 Oliver Street  
Williamsport, PA. 17701 U.S.A.

Telephone +1 (877) 839-7878 (U.S. and Canada)

Telephone +1 (570) 327-7222 (International)

Fax +1 (570) 327-7101

Email [Technicalsupport@lycoming.com](mailto:Technicalsupport@lycoming.com)

[www.lycoming.com](http://www.lycoming.com)

# SERVICE INSTRUCTION

DATE: December 1, 2023

Service Instruction No. 1589  
Engineering Aspects are  
FAA Approved

SUBJECT: Exhaust Bypass Valve Assembly Replacement

MODELS AFFECTED: TEO-540-C1A

TIME OF COMPLIANCE: At replacement or upon observation of manifold pressure oscillations.

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

This Service Instruction announces the incorporation of a new Exhaust Bypass Valve Assembly into TEO-540-C1A engine production. Upon implementation, engines shipped from the Lycoming factory will include P/N 47E31569 superseding the LW-12778 and the 47E29907 Exhaust Bypass Valve Assembly.

Engines currently in-service in the field may continue to use the LW-12778 or the 47E29907 Exhaust Bypass Valve Assembly unless the engine is demonstrating manifold pressure oscillations, then replacement is required. P/N 47E31569 must be installed when replacement of either the LW-12778 or the 47E29907 Exhaust Bypass Valve Assembly is necessary.

Installation of P/N 47E31569 will reduce manifold pressure oscillations for in-service engines that had previously experienced them.

Replacement of the Exhaust Bypass Valve Assembly must be performed in accordance with the instructions in chapter 72-40 of the latest revision of the TEO-540-C1A Engine Maintenance Manual. Record the installation of the Exhaust Bypass Valve Assembly in the Engine Maintenance Records .

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



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