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# SERVICE INSTRUCTION

DATE: December 02, 2021

Service Instruction No. 1586  
Engineering Aspects are  
FAA Approved

SUBJECT: Oil Filter Base Bypass Spring Replacement

MODELS AFFECTED: TEO-540-C1A

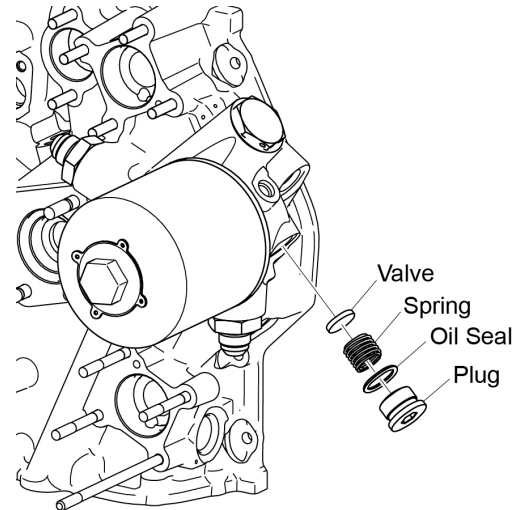
TIME OF COMPLIANCE: At Next Oil Change

**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.

Oil filter bypass spring P/N MS24585-1478 is being incorporated into the production of TEO-540-C1A engines to ensure that oil bypass of the filter during engine start up is kept to a minimum. Lycoming Engines is requesting all in-service TEO-540-C1A engines be upgraded with oil filter bypass spring P/N MS24585-1478. When the next revision of the TEO-540-C1A Illustrated Parts Catalog (PC-TEO-540-C1A, Rev. 5) is issued it will include oil filter bypass spring P/N MS24585-1478.

**Required Action:**

1. Remove the plug, oil seal, and oil filter bypass spring (Figure 1) from the accessory housing. Discard the old bypass spring. Visually inspect the oil seal and reuse if undamaged. Any damage or uncertainty of the condition is cause for replacement of the oil seal P/N MS29512-10
2. Flush any dirt or contaminants from the area, using mineral spirits (MIL-PRF-680), stoddard solvent, or equivalent. Apply engine oil mixture to the oil seal and install the oil seal on the plug.
3. Reinstall the valve and new oil filter bypass spring P/N MS24585-1478 as shown in Figure 1 and install the plug with the oil seal. Torque the plug to 20 to 25 ft.-lbs. (27 to 34 Nm).
4. Complete an engine run-up in accordance with the latest revision of Lycoming Service Bulletin No. 480 and the Airplane Flight Manual (AFM). Check for oil leaks and correct as necessary.
5. Record installation of the new oil filter bypass spring in the engine maintenance records.



**Figure 1**  
**Oil Filter Base Spring and Valve**

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).



ISSUED			REVISED			PAGE NO.	REVISION
MO	DAY	YEAR	MO	DAY	YEAR	1 of 1	--
12	02	21	--	--	--		