



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

Service Instruction No. 1585A  
(Supersedes Service Instruction No. 1585)  
Engineering Aspects are  
FAA Approved

DATE: December 1, 2023

SUBJECT: Oil Cooler Bypass Valve Assembly Replacement

MODELS AFFECTED: TEO-540-C1A

TIME OF COMPLIANCE: At owner's discretion

REASON FOR REVISION Revised the first paragraph and replacement instructions based on the option to use either Oil Cooler Bypass Valve Assembly P/N 53E29909 or Oil Cooler Bypass Valve Assembly P/N 53E22144

**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.

Lycoming Engines has approved the use of either Oil Cooler Bypass Valve Assembly P/N 53E29909 or Oil Cooler Bypass Valve Assembly P/N 53E22144, to maintain optimum oil temperature of 185° F to 220° F (85° C to 104° C), depending upon varying ambient temperatures.

Lycoming Engines Oil Cooler Bypass Valve Assembly recommendations:

P/N 53E29909 – In areas where Outside Air Temperature (OAT) frequently prevents oil temperature from reaching and sustaining within the optimum temperature range.

P/N 53E22144 – In areas where Outside Air Temperature (OAT) allows the oil temperature to sustain within the optimum temperature range without exceeding the maximum temperature.

**If the Oil Cooler Bypass Valve Assembly Requires Replacement:**

1. Remove the installed oil cooler bypass valve Assembly in accordance with instructions in Chapter 72-50 of the latest revision of the TEO-540-C1A Engine Maintenance Manual.
2. Install the appropriate oil cooler bypass valve Assembly in accordance with instructions in Chapter 72-50 of the latest revision of the TEO-540-C1A Engine Maintenance Manual.
3. Perform a post maintenance engine run-up and leak check. Correct any leaks.
4. Record the installation of bypass valve in 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).



General Aviation  
Manufacturers Association

ISSUED			REVISED			PAGE NO.	REVISION
MO	DAY	YEAR	MO	DAY	YEAR		
11	19	2021	12	01	2023	1 of 1	A