

# MANDATORY

# SERVICE BULLETIN

DATE: July 1, 2003 Service Bulletin No. 543B  
(Supersedes Service Bulletin No. 543A and  
Supplement No. 1 to Service Bulletin No. 543A)

SUBJECT: Oil Filter Converter Plate Gasket Replacement

MODELS AFFECTED: All Lycoming:  
**O-320**-H1AD, -H1BD, -H2AD, -H2BD, -H3AD, -H3BD;  
**(L)O-360**-A1AD, -A1F6D, -A1G6D, -A1LD, -A3AD, -A4AD, -A5AD, -E1A6D;  
**IO-360**-A1B6D, -A1D6D, -A3B6D, -A3D6D, -C1E6D, -J1AD, -J1A6D;  
**(L)TO-360**-A1A6D, -C1A6D, -E1A6D, -F1A6D;  
**TIO-360**-C1A6D;  
**(L)HIO-360**-E1AD, -E1BD, -F1AD;  
**O-540**-H1A5D, -H1B5D, -H2A5D, -H2B5D, -J1A5D, -J1B5D, -J1C5D, -J1D5D, -J2A5D,  
-J2B5D, -J2C5D, -J2D5D, -J3A5D, -J3C5D, -L3C5D;  
**IO-540**-C4D5D, -K1A5D, -K1B5D, -K1E5D, -K1F5D, -K1G5D, -K1J5D, -L1A5D, -L1B5D,  
-M1A5D, -M1B5D, -M2A5D, -T4A5D, -T4B5D, -T4C5D, -U1A5D, -U1B5D, -V4A5D,  
-W1A5D, -W3A5D;  
**(L)TIO-540**-K1AD, -S1AD, -AA1AD, -AB1AD, -AB1BD, -F2BD, -J2BD, -N2BD, -R2AD,  
-T2AD, -V2AD;  
**AEIO-540**-L1B5D;  
**TIO-541**-E Series; **TIGO-541**-D1A, -D1B, -E1A;  
**IO-720**-A1BD, -B1BD, -C1BD, -D1BD, -D1CD.

**SERVICE BULLETIN NO. 543B DOES NOT AFFECT:**

- 1. ENGINES SHIPPED AFTER OCTOBER 4, 2000.**
- 2. ENGINES SHIPPED BEFORE APRIL 1, 1999 UNLESS A REPLACEMENT OIL FILTER CONVERTER PLATE GASKET P/N LW-13388 WAS INSTALLED AFTER APRIL 1, 1999.**
- 3. ENGINES THAT HAVE OIL FILTER CONVERTER PLATE GASKET P/N 06B23072 INSTALLED.**

**SERVICE BULLETIN NO. 543B AFFECTS THE LYCOMING ENGINES LISTED ABOVE ONLY IF ANY OF THE FOLLOWING APPLY:**

- 1. THEY WERE SHIPPED FROM THE FACTORY BETWEEN APRIL 1, 1999, AND OCTOBER 4, 2000 AND HAVE NOT COMPLIED WITH ITEM 3. ABOVE.**
- 2. THEY HAVE HAD THE OIL FILTER CONVERTER PLATE GASKET FIELD REPLACED AFTER APRIL 1, 1999, WITH P/N LW-13388.**
- 3. THEY HAVE HAD THE OIL FILTER CONVERTER PLATE FIELD REPLACED AFTER APRIL 1, 1999, WITH KIT P/N LW-13904.**

TIME OF COMPLIANCE: At the next 50 hour oil change unless gasket P/N 06B23072 has previously been installed.

**NOTE**

For identification, new P/N 06B23072 gaskets have been stamped with the part number.

Lycoming has determined that some P/N LW-13388 oil filter converter plate gaskets were made from incorrect material. This could cause some converter plate gaskets to become extruded from the seat, allowing oil to leak out between the plate and the accessory housing.

1. Remove the oil filter and the converter plate (Figure 1). Remove the gasket from the plate in accordance with the latest revision of Lycoming Service Instruction No. 1453.

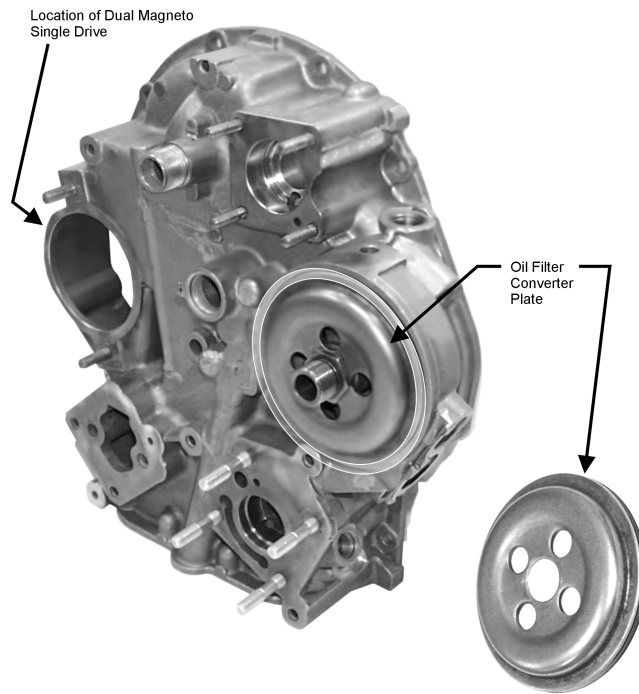


Figure 1.

2. Replace the P/N LW -13388 gasket with a new gasket P/N 06B23072 in accordance with the latest revision of Lycoming Service Instruction No. 1453. For identification, new gaskets P/N 06B23072 have been stamped with their part number.
3. After bonding the P/N 06B23072 gasket in place, vibropeen the number 543 anywhere along the outer surface of the plate flange as shown in Figure 2.

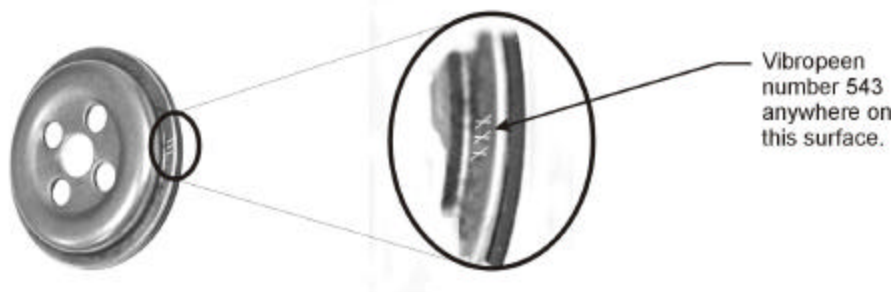


Figure 2.

4. Reinstall the plate and oil filter in accordance with the latest revision of Lycoming Service Instruction No. 1453. This relieves the requirement of the replacement of the converter plate gasket at every 50 hours.

**NOTE**

**After converter plate is marked with 543, P/N LW-13388 gasket may never be used again.**

5. Make appropriate logbook entry of compliance with Service Bulletin No. 543B.

**NOTES**

**Installation of Lycoming converter plate kit P/N 54E23093 (supersedes P/N 54E23073, which may be used unless cure date has expired) accomplishes compliance with this Service Bulletin. Installation of Lycoming oil filter kit P/N 05K23074 (O-320-H series only) accomplishes compliance with this Service Bulletin.**

**After kit P/N 54E23073, P/N 54E23093 or kit P/N 05K23074 is installed, P/N LW -13388 gasket may never be used again. The converter plate included in each of these kits is identified with the part number 54E23073 or 54E23092 permanently marked on the plate in the same location as shown in Figure 2.**

NOTE: Revision "B" incorporates Service Bulletin No. 543A and Supplement No. 1 to Service Bulletin No. 543A.