



Lycoming O-235 Engine Accessory Housings

AWB 83-002 Issue : 1
Date : 11 December 2006

1. Applicability

Lycoming O-235 model engines and accessory housing kit P/N 05K21678 shipped from Lycoming between 01 September 2003 and 01 June 2006.

The engines and spare kits listed above may contain accessory housing P/N 21A23000, S/N 7212-0001 through 7212-0060.

2. Purpose

This AWB informs operators about Lycoming O-235 engine accessory housings that may not have an oil passage hole to the idler gear shaft.

3. Background

Certain accessory housings, P/N 21A23000, either installed on Lycoming O-235 engines or received in an accessory housing kit, P/N 05K21678 between 01 September 2003 and 01 June 2006 may not have an oil passage hole to the idler gear shaft. If the idler gear shaft is not lubricated, wear damage to the idler gear shaft and subsequent damage to the engine by metal contamination may occur.

Note 1: This AWB is based on Lycoming Mandatory Service Bulletin 572 dated 30 October 2006.

4. Recommendation

Check the serial number of the accessory housing. If the serial number does not contain "7212", no further action is required.

If the serial number falls in the applicability list i.e. 7212-0001 through 7212-0060, both inclusive, proceed with the following steps:

1. Remove the oil filter base or pressure screen housing and inspect for the presence of a 3/16-inch hole at the location shown in Figure 1 of Lycoming MSB 572.
2. If the 3/16-inch hole is not present, contact the manufacturer for further instructions.
3. If the 3/16-inch hole is present, verify that it passes through to the interior of the accessory housing by using compressed air or probing with a thin piece of wire.

Note 2: If compressed air is used and no obstructions are present, then there will be an audible sound of air escaping into the interior of the accessory housing.

If a probe is used, no obstructions will be encountered before a minimum insertion depth of 2.324 inches.

If no obstructions are found, no further action is required.

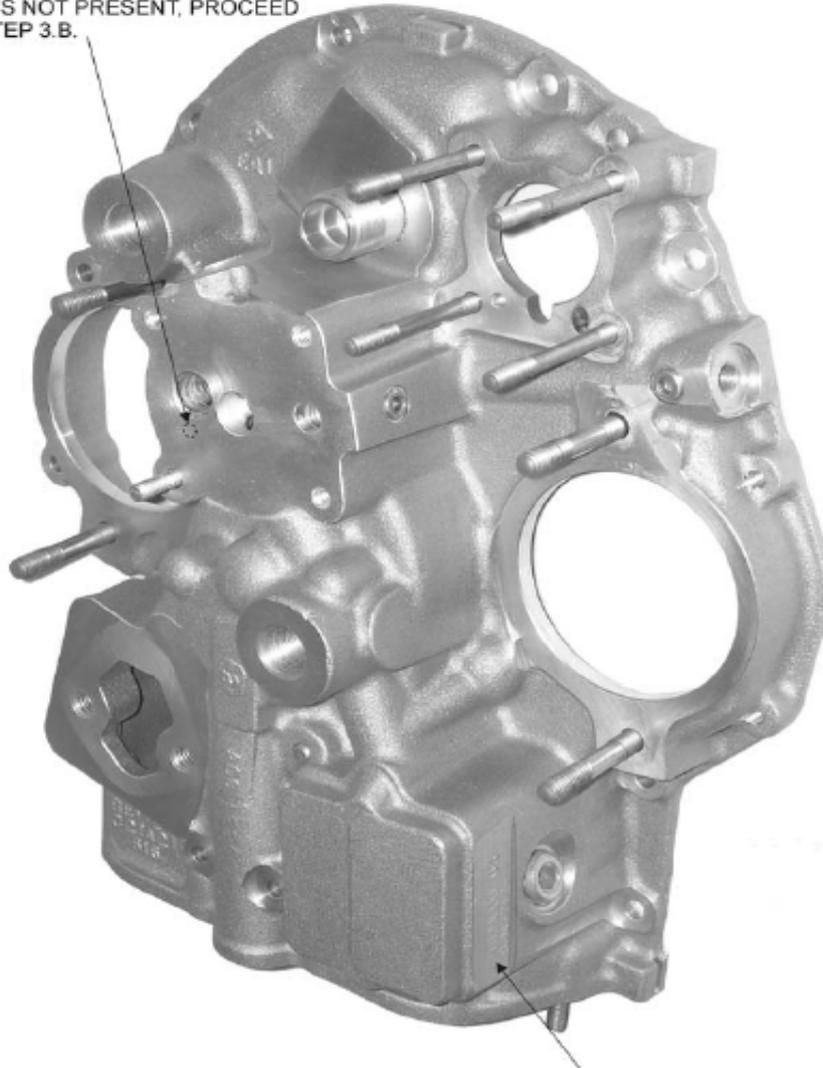
If the passage hole is obstructed, contact the manufacturer for further instructions.



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THE OIL PASSAGE HOLE CAN BE FOUND NEAR THIS LOCATION. IF THIS IS NOT PRESENT, PROCEED WITH STEP 3.B.



THE ACCESSORY HOUSING SERIAL NUMBER WILL BE STAMPED HERE. IF THE SERIAL NUMBER DOES NOT CONTAIN "7212" THEN NO FURTHER ACTION IS REQUIRED. IF IT DOES CONTAIN "7212" THEN PROCEED WITH STEP 3.

5. Enquiries

Enquiries with regard to the content of this Airworthiness Bulletin should be made via the e-mail address: AirworthinessBulletin@casa.gov.au

Or in writing, to:

Manufacturing, Certification and
New Technologies Office,
GPO Box 2005, Canberra, ACT, 2601