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SERVICE INSTRUCTION

DATE: December 15, 2009

Service Instruction No. 1424A
(Supersedes Service Instruction No. 1424)

Engineering Aspects are
FAA (DER)Approved

SUBJECT: Installation Procedure for P/N 15B26066 Hydraulic Tappet/Plunger Assemblies

MODELS AFFECTED: All Lycoming reciprocating engines using P/N 15B26066 except: O-235 series; O-320-H series; O, LO, TO, LTO-360-E series; and TIO, TIGO-541 series.

TIME OF COMPLIANCE: Any time new P/N 15B26066, hydraulic tappet plunger assemblies, are installed.

Whenever a new plunger assembly is installed, perform the following steps to ensure that the plunger does not stick in the collapsed position.

PART I – AT ENGINE ASSEMBLY PRIOR TO ADDING OIL (Plunger Assemblies Installed Dry)

- (1). Set dry tappet clearances, as described in the applicable Overhaul Manual or Maintenance and Overhaul Manual.
- (2). Rotate engine at least ten (10) complete revolutions.
- (3). Return each piston top dead center (TDC), compression stroke, as required, to set dry tappet clearance.
- (4). Push on push rod end of rocker with thumb to check hydraulic plunger spring action. If spring action is present, no further action is required.
- (5). If no spring action is felt, remove and replace plunger assembly and repeat procedure of setting dry tappet clearance; rotate engine and check for spring action on replaced unit.

PART II – WHEN REPLACING PLUNGER ASSEMBLIES IN ENGINE INSTALLED IN AIRCRAFT

Accomplish steps 1 through 5 as previously described in Part I of this Instruction.



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Recognizing that it is possible to pump up the plunger with oil while turning the engine through ten (10) revolutions as in Step 2, you may not be able to "feel" the spring action of the plunger. As a result, the rocker arm will not yield when pushed on. This is normal and if this condition exists, no further action is required.

If, however, the rocker arm will MOVE when grasped or pushed firmly with a rocking or pivoting motion and no spring action is felt, remove and replace the plunger assembly and again accomplish steps in Part I and Part II.

NOTE

Do not attempt to reuse any plunger assembly that has been stuck in the collapsed position. Refer to the latest revision of Service Instructions Nos. 1011 and 1193 for further details on Plunger Assemblies – Hydraulic Tappets.

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