

Lycoming Piston Engines

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**AD/LYC/76**  
**Amdt 6**

**Propeller Attachment Flange**

**10/94**

**Applicability:** All Lycoming O-360, IO-360, AIO-360 and AEIO-360 engines fitted with a light flange crankshaft and installed in an aircraft with a Certificate of Airworthiness in the acrobatic category or a Airplane Flight Manual approving aerobatic manoeuvres.

*Note 1: For the purpose of this Directive, a light flange crankshaft is a crankshaft incorporating lightening holes in a 0.38" thick propeller attachment flange.*

**Requirement:**

1. Carry out a visual inspection of the propeller attachment flange in accordance with Lycoming Service Bulletin No. 465C, "INSPECTION PROCEDURE I", or
2. Carry out a Magnetic Particle Inspection (MPI) of the propeller attachment flange in accordance with Lycoming Service Bulletin No. 465C, "INSPECTION PROCEDURE II", or
3. Carry out an Eddy Current Inspection (ECI) of the propeller attachment flange in accordance with a procedure approved by the Authority.

*Note 1: FAA Airworthiness Directive 84-13-05 refers.*

*Note 2: Replacement of a light flange crankshaft with a solid flange crankshaft is the terminating action for this Directive. A solid flange crankshaft does not have lightening holes in the propeller flange and the flange can be 0.38" or 0.44" thick.*

**Compliance:** Effective 15 September 1994:

1. Within 25 hours time in service, and thereafter at intervals not to exceed 25 hours time in service.
2. Unless previously accomplished, within 25 hours time in service, and thereafter at intervals not to exceed 110 hours time in service.
3. Unless previously accomplished, within 25 hours time in service, and thereafter at intervals not to exceed 110 hours time in service.

**Background:** This Directive has been amended, in part, to reflect the manufacturer's latest revision to the requirement document. Service Bulletin No. 465C provides a terminating action for engines fitted with light flange crankshafts.

The amendment also deletes direct reference to an Eddy Current Inspection (ECI) procedure detailed in a previous issue of this Directive. Inspection of the propeller flange by ECI shall be carried out in accordance with a procedure approved by the Authority.