

HARTZELL PROPELLER, INC.

Piqua, Ohio

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Effectivity:

All Hartzell HC-82XG propellers installed on Lycoming O-290, O-320 and O-340 engines. (Piper Apache, Riley Twin, Mooney, Piper Tri-Pacer, Colonial Skimmer).

Subject:

100 Hour Inspection of Propeller Mounting Bolts.

Causes and Effects:

There has been an instance where several of the six propeller mounting bolts failed in fatigue, allowing the propeller to break loose from the engine. Fatigue failure of the bolts is attributed to insufficient torque, which allowed the propeller to work slightly with respect to the propeller flange.

Action Required:

Check the mounting bolts for the proper 30 ft. lb. torque at each 100 hour inspection period.

General Precautions:

If a propeller is installed on an engine it is essential that the plastic shim, B-933, be installed between the flange surfaces; else failure of the mounting bolts may result. (The PRP-902-32 "O" ring is used for oil sealing).

The two A-930 socket screws have been replaced in production by the A-954 Ferry screws, because it is possible to torque the latter more properly.