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August 26, 2011

Subject: TPE331 Propeller Pitch Control Lever

To: Flight Safety @ OEM

Honeywell is providing this letter to bring to your attention an occurrence related to the airframe interface with the TPE331 propeller pitch control (PPC) shaft. Some airframe OEMs install an additional lever on the engine PPC shaft and attach the aircraft power lever Teleflex cable to this lever. Honeywell has received a report of the OEM installed lever, on the PPC, becoming detached from the PPC assembly cam shaft. If this occurs, the airframe controls linkage is no longer connected to the PPC or to the linkage interface with the fuel control power lever.

Flight Operation: If the propeller pitch control lever becomes detached during flight, fuel flow to the engine will remain constant regardless of power lever movement by the pilot.

Ground Operation: If the propeller pitch lever becomes detached during operation in Beta mode, the engine will not respond to power lever movement.

Most of the production PPC cam assemblies currently supplied by Honeywell have a threaded hole in the vertical PPC splined shaft. However, this threaded hole feature is dependent upon when the shafts were manufactured. The threaded hole provides for the installation of a second bolt P/N MS9565-X and washer P/N S9011F23-105 to provide for a secondary feature for retention of the OEM supplied lever. The second bolt head should be safety wired to the lever (see figures 1 and 2).

To ensure that all splined shafts have the threaded hole in the vertical PPC shaft, Honeywell is in the process of developing and certifying PPC cam assemblies. Honeywell will issue a service bulletin for installation of the new PPC cam assemblies in the end of the third quarter of 2011.

In view of service experience, Honeywell is recommending that you and other aircraft manufactures consider incorporating the bolt, washer and safety wire as a secondary feature for retention of the OEM supplied lever.

Should you require additional technical details regarding this matter, please contact Mr. David Peterson at [dave.peterson@honeywell.com](mailto:dave.peterson@honeywell.com) or Mr. Bruce Baker at [bruce.baker@honeywell.com](mailto:bruce.baker@honeywell.com)

Sincerely,

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Figure 1

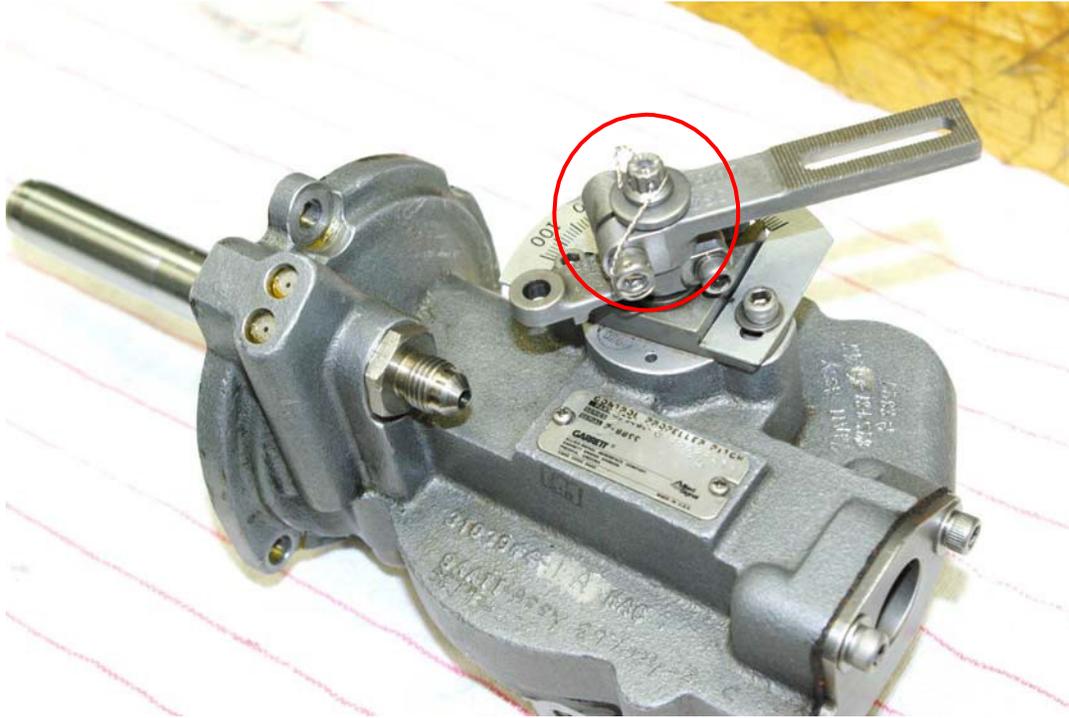


Figure 2

