PROPELLER RPM TACH GENERATOR - REMOVAL/INSTALLATION (PT6A-140)

1. General

A. This section gives the propeller RPM tach generator removal and installation procedures for the PT6A-140 engine installation. The RPM indicator function is shown on the Garmin G1000 Multifunction Display (MFD).

2. Tach Generator Removal/Installation

- A. Remove the Tach Generator (UN033) (Refer to Figure 401).
 - (1) Remove external electrical power from the airplane.
 - (2) Make sure that the BATTERY switch (SC005), found on the circuit breaker switch panel, is set to the OFF position.
 - (3) Disengage the F FLOW NG & NP circuit breaker found on the left circuit breaker panel.
 - (4) Open right upper engine cowling. Refer to Chapter 71, Cowling and Nose Cap Maintenance Practices.
 - (5) Remove right nose cap half. Refer to Chapter 71, Engine Cowling and Nose Cap Maintenance Practices.
 - (6) Disconnect the electrical connector from the tach generator.
 - (7) Remove the nuts and washers that attach the tach generator to the engine mounting pad.
 - (a) Remove the ground strap from the upper right tach generator flange attach point.
 - (b) Remove the static oil pressure tube support bracket from the upper right tach generator flange attach point.
 - (c) Remove the tach generator and gasket from the mounting pad.
- B. Install the Tach Generator (UN033) (Refer to Figure 401).

CAUTION: Make sure that the splines of the tach generator drive shaft are aligned correctly with the engine drive when you install the tach generator to the engine drive pad.

- (1) Make sure that the tach generator mounting pad is clean.
- (2) Examine the tach generator gasket and make sure that it is serviceable.
 - (a) If the gasket is not serviceable replace it with a new gasket.
- (3) Put the tach generator and gasket in its correct position on the mounting pad.
- (4) Put the static oil pressure tube support bracket in its correct position on the upper right tach generator flange attach point.

(a) Make sure the oil tube is not loaded before your put the bracket in it position on the tach flange.

- (5) Put the ground strap in its correct position on top of the static oil pressure tube support bracket.
- (6) Install the nuts and washers that attach the tach generator to the mounting pad.
- (7) Connect the electrical connector (PN033) to the tach generator.
- (8) Install right nose cap half. Refer to Chapter 71, Cowling and Nose Cap Maintenance Practices.
- (9) Close right upper engine cowling. Refer to Chapter 71, Cowling and Nose Cap Maintenance Practices.
- (10) Engage the F FLOW NG & NP circuit breaker found on the left circuit breaker panel.
- (11) Set the BATTERY switch (SC005) to the ON position.
- (12) Do a check of the RPM indicator on the MFD. Operate the engine, use the Model 208B Pilot's Operating Handbook and FAA-Approved Airplane Flight Manual to do the operational check of the RPM indicator.
- (13) To troubleshoot the propeller RPM tach generator and RPM indication refer to the Chapter 2 Troubleshooting section of the G1000 Line Maintenance Manual (Cessna Caravan) P/N 190-00869-00 found in the Introduction, List of Publications.

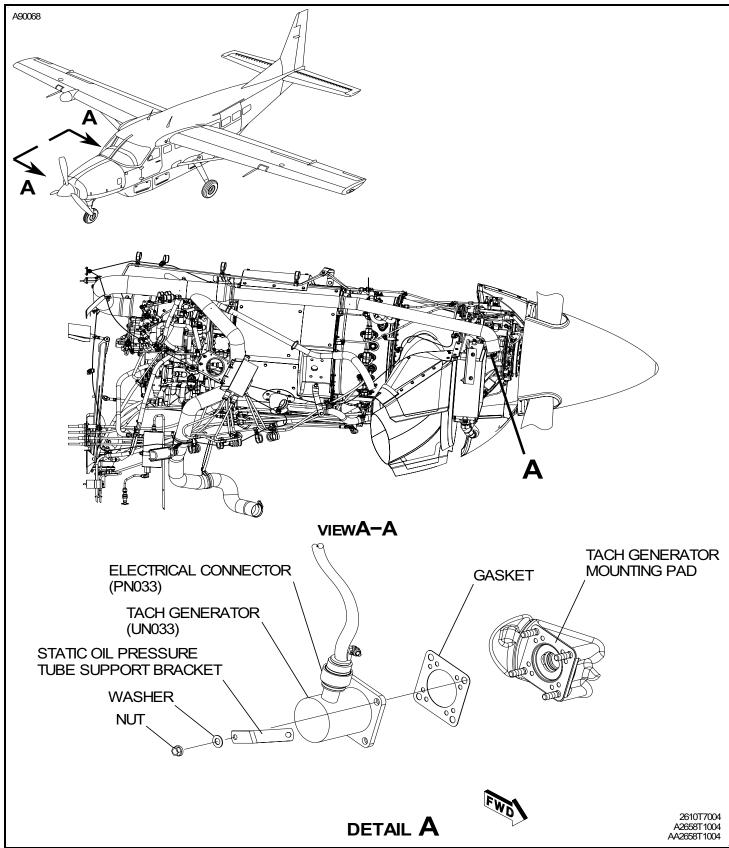


Figure 401 : Sheet 1 : Tach Generator Installation