

## SERVICE INFORMATION LETTER

FROM: JetProp LLC

19 July 2012

SUBJECT: Torque Transducer Line Drain Fittings

TO: JetProp Owners

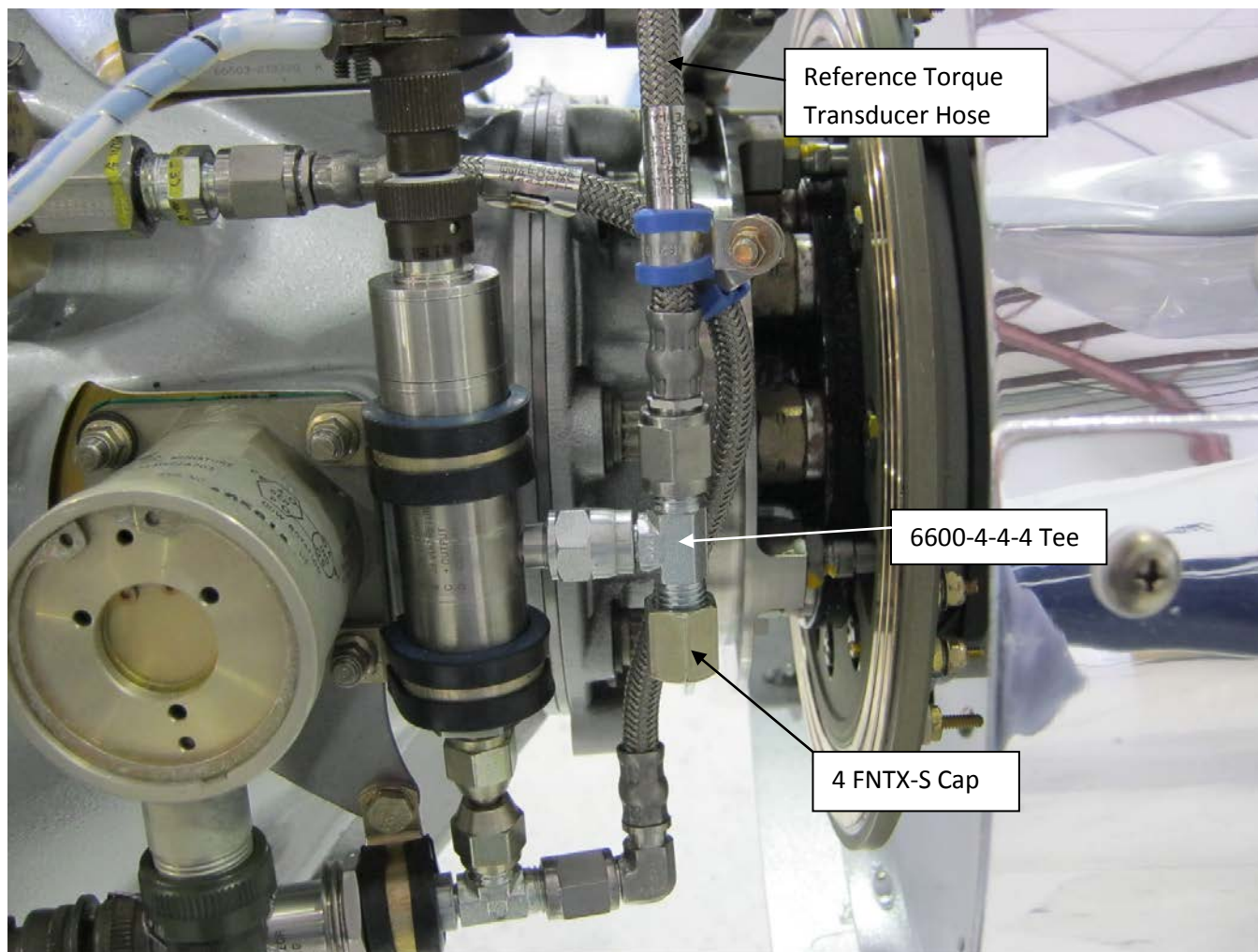
**Background.** Even after we have added an inline filter and rerouted the reference line for the torque transducer, we are still hearing about a few torque indicating problems. It appears that the reference line which normally provides a reference air pressure to the torque transducer is getting some engine oil in the line which can cause a disruption in the reference pressure transmitted to the torque transducer resulting in torque fluctuations.

### **Recommended Upgrade (Estimated Time Required 3 man hours) .**

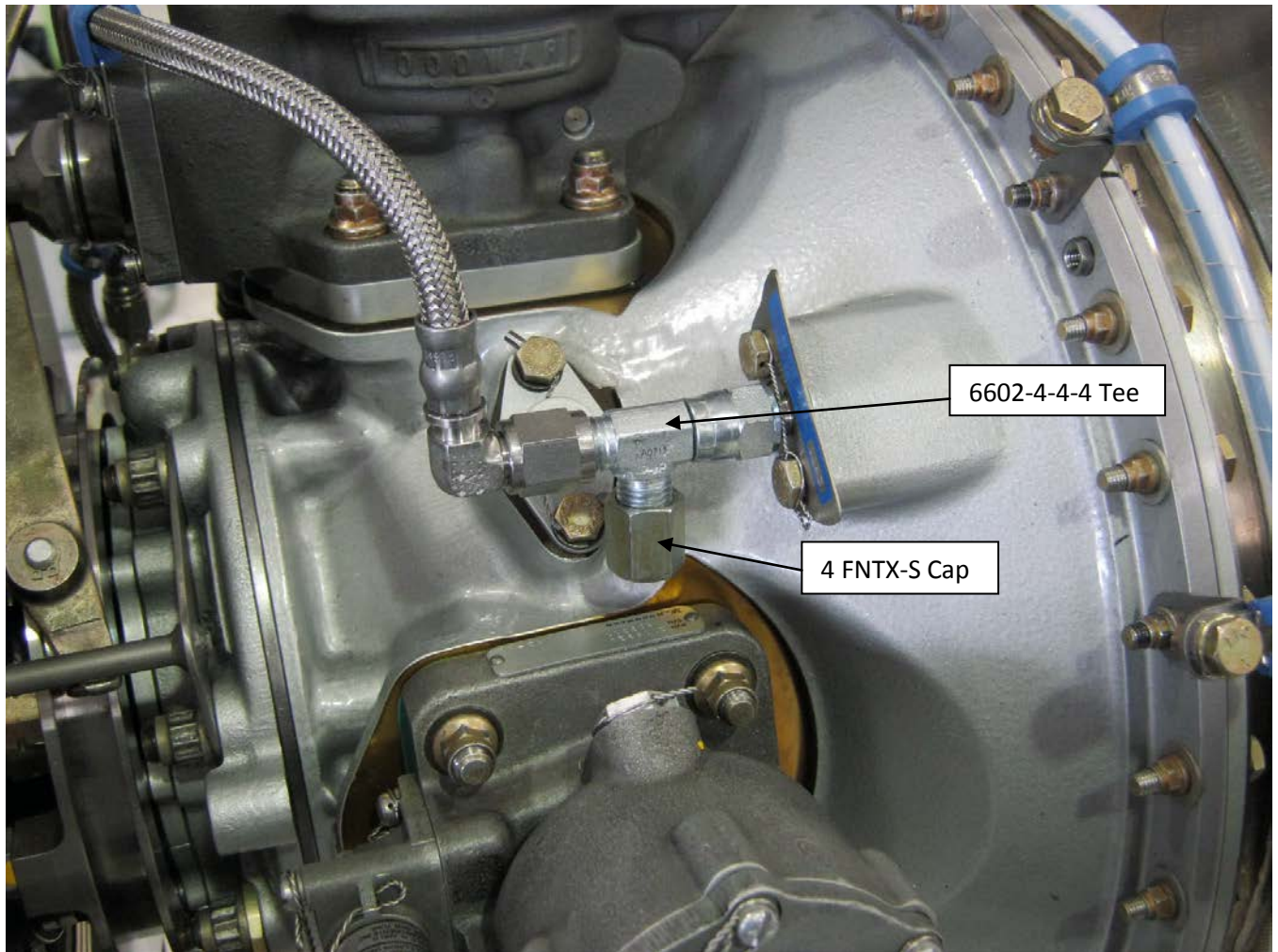
1. Overview. In an attempt to prevent the small amount of oil that gets into the torque reference line from causing a disruption of the reference pressure, two drain fittings have been added to collect the oil and aid in clearing the line. These fittings are shown in Figure 1 and Figure 2. The parts required for this upgrade are included in Table 3.
2. To reconfigure to this configuration, insure electrical power is off and remove the top cowling to get access to the torque transducer area.
3. Remove the reference torque transducer hose and fittings from the torque transducer and the engine.
4. Install the 6600-4-4-4 tee on the torque transducer as shown in Figure 1.
5. Install the 6602-4-4-4 tee on the engine as shown in Figure 2.
6. Now, install the 90<sup>0</sup> end of the reference torque transducer hose removed earlier in step 3 to the tee just installed on the engine and as shown in Figure 2. Route the hose as before and attach the straight end of the hose to the tee attached to the torque transducer. Secure the line with the adell clamps as shown in Figures 1 & 2.
7. Install the drain caps on both tees.
8. Recommend a leak check and operational torque check be performed by running the engine and checking that the torque operates normally. After shut down check the torque reference line for indications of leaks.
9. Install the top cowling.
10. Make a log book entry stating the torque transducer configuration was upgraded in accordance with JetProp Service Information Letter 12-560-05. This upgrade does not affect the aircraft weight and balance.

### **Recommended Continued Airworthiness Procedures.**

1. Overview. At each Annual or 100 hour inspection, recommend the torque transducer reference line be blown out to clear all oil accumulated in the line and fittings.
2. With the upper cowling removed, remove the cap from the torque transducer line tee fitting at the torque transducer and the cap on the tee fitting at the engine.
3. Recommend placing a rag under the tee fitting on the torque transducer to absorb any oil blown out. Now blow air from the tee fitting on the engine through the torque reference line and out through the tee fitting on the torque transducer to remove any residual oil in the line.
4. Replace the caps on both tees.



**Figure 1. Torque Transducer with Drain Fitting**



**Figure 2. Torque Reference Line With Drain Fitting Installed**

Table 3. Torque Transducer Line Drain Fitting Kit Listing

Part#	Description	Quantity
6600-4-4-4	Tee	1
6602-4-4-4	Tee	1
4 FNTX-S	Cap	2

If there are any questions, please contact Steve Nitchman in maintenance or Rich Runyon in Engineering at (509) 535-4401.

Sincerely,

Darwin Conrad  
 President  
 JetPROP, LLC