



# SERVICE DIRECTIVE BULLETIN

SERVICE DIRECTIVE BULLETIN NO. T-057

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DATE:            July 6, 2017

1.    SUBJECT:    Fuel Quantity Transmitter - Cover and Gasket

2.    MODEL:        480 and 480B

3.    EFFECTIVITY:    S/N 5198 through 5239, excluding S/N 5221-5223 and 5227-5230.

4.    BACKGROUND:

Enstrom has received a report of a failed fuel quantity transmitter attributed to water leakage as a result of insufficient sealing around the perimeter of the fuel quantity transmitter cover.

This Service Directive Bulletin (SDB) requires an inspection of the fuel quantity transmitter installation and an upgrade of the fuel cell cover and gasket.

5.    COMPLIANCE:

5.1    If there is any indication of a fuel quantity indicator anomaly, remove the fuel quantity transmitter cover and inspect the inside cavity for evidence of water leakage in accordance with paragraph 6 at the next scheduled inspection.

5.2    At the next scheduled annual or 100 hour inspection, whichever occurs first, replace the fuel quantity transmitter cover and gasket in accordance with paragraph 7, if required.

6.    INSPECTION:

## NOTE

**Perform all maintenance in accordance with the TH-28/480 Series Maintenance Manual.**

6.1    Remove the cover from the fuel transmitter located on the top of right side fuel tank.

6.2    Inspect the fuel quantity transmitter cavity for water or moisture.

6.2.1    Blot or wipe dry with a clean cloth or paper toweling.

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- 6.3 Inspect the fuel quantity transmitter wiring for condition and security.
- 6.3.1 Clean the electrical contacts to remove any residue.
- 6.3.2 Remove any corrosion from the fuel transmitter case ground location.
- 6.3.3 Apply a corrosion inhibitor (see paragraph 8) to the case ground wire and the transmitter wire connections.
- 6.4 Proceed with step 7.
7. UPGRADE INSTALLATION:
- 7.1 Inspect the fuel quantity transmitter cover for a flat (Figure 1) or flanged (Figure 2) edge.

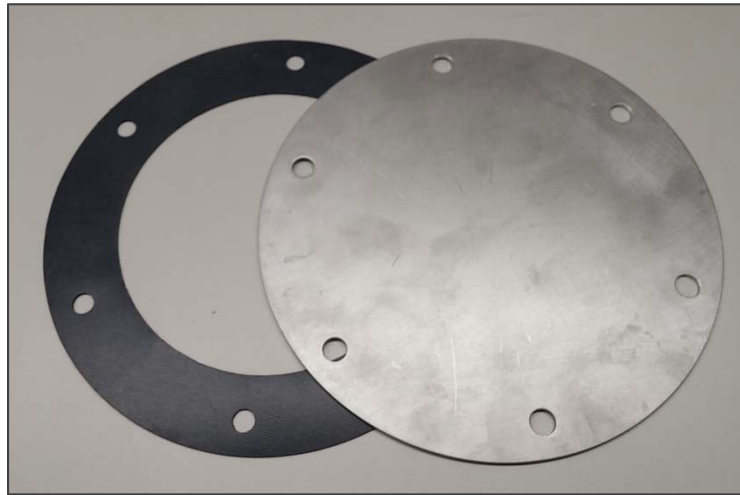


Figure 1: Inactive Gasket and Cover (flat edge)  
(Parts removed for clarity; Actual gasket color is medium blue)



Figure 2: Gasket (P/N 4122065-35) (cork) and Cover (P/N 4122065-33) (flanged edge)  
(Parts removed for clarity)

- 7.2 If the cover has a flanged edge, no further action is required.
- 7.2.1 If the cover was removed, reinstall existing gasket or install gasket P/N 4122065-35.
- 7.2.1.1 If the previous gasket was cork, replace with a new P/N 4122065-35.
- 7.2.2 Reinstall the cover, if required.
- 7.2.2.1 Ensure the cover is wiped clean and dry prior to installation.
- 7.3 If the cover has a flat edge, replace the cover with flanged edge cover, P/N 4122065-33.
- 7.3.1 Remove the cover, if not previously removed.
- 7.3.2 Perform step 6.2 and step 6.3, if not immediately performed previously.
- 7.3.3 Remove existing gasket and install gasket P/N 4122065-35.
- 7.3.4 Install cover P/N 4122065-33.
- 7.4 Verify fuel quantity transmitter operation.

8. PARTS:

Part Number	Description	Quantity	IPC Ref. (S/S = Superseded)
4122065-33	Cover	1	Figure 5-1, Item 27 (S/S by 4122065-33)
4122065-35	Gasket	1	Figure 5-1, Item 34 (S/S by 4122035-35)
<b>NOTE: The following item may be procured locally.</b>			
ACF-50 (Lear Chemical Research Corp.)	Corrosion Inhibitor		As Required

9. SPECIAL TOOLS: N/A
10. MAN-HOURS: Inspection – 15 minutes, Cover/gasket replacement – 1 hour
11. WARRANTY: Per Enstrom Helicopter Warranty policy
12. WEIGHT CHANGE: N/A
13. LOG BOOK ENTRY: Enter compliance with this SDB in the aircraft maintenance records.
14. REPETITIVE ACTION: N/A