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# SERVICE INFORMATION LETTER

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- DATE:                    March 30, 2016
1. SUBJECT:            Bleed Air Restrictor
2. MODEL:              TH-28, 480, 480B
3. EFFECTIVITY:    S/N 5231 and S/N 5226 and prior, excluding S/N 5157, 5220, 5222, and 5223
4. REFERENCE:        Enstrom TH-28/480 Series Maintenance Manual
5. BACKGROUND:

During a recent inspection of the engine compressor bleed air lines at the Enstrom factory, it was discovered that a bleed air restrictor (fitting) (P/N S-9216EC-1, Air Comm) was installed incorrectly. The effect of a backwards-installed fitting was investigated and found to have no significant effect on the performance of the bleed air systems.

This Service Information Letter (SIL) requires inspection of the bleed air fittings for proper installation and correcting the installation of a bleed air fitting if necessary.

6. COMPLIANCE:

Inspect for correct installation of the bleed air fittings in accordance with paragraph 6.1 at the next scheduled inspection and correct the installation if necessary.

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

6.1 Visual Inspection

6.1.1 Access the bleed air fittings through the left- and right-hand engine access panels.

6.1.2 Locate the two bleed air fittings (Item 11) (Figure 1).

**CAUTION:** Use a backing wrench to prevent damaging the air lines and fittings.

**CAUTION:** Cap or plug all open air lines to prevent contamination of the engine.

- 6.1.3 Disconnect the line assemblies (13 and 14) at the bleed air fittings (11). Discard the O-ring (12).
- 6.1.4 Using a bright light source, check that the bleed air fittings are installed correctly. Refer to Figure 2.
- 6.1.5 If a bleed air fitting is installed correctly, no further action is required. Connect the air line assembly.

**NOTE:** Replace all used O-rings.

- 6.1.6 If a bleed air fitting is installed incorrectly, remove the fitting from the compressor scroll. Install a new O-ring (AS3084-08) and reinstall the fitting with the smaller opening toward the compressor scroll side. Torque 75 in-lbs/8.5 Nm. Connect the air line assembly and torque 450 in-lbs/51 Nm.

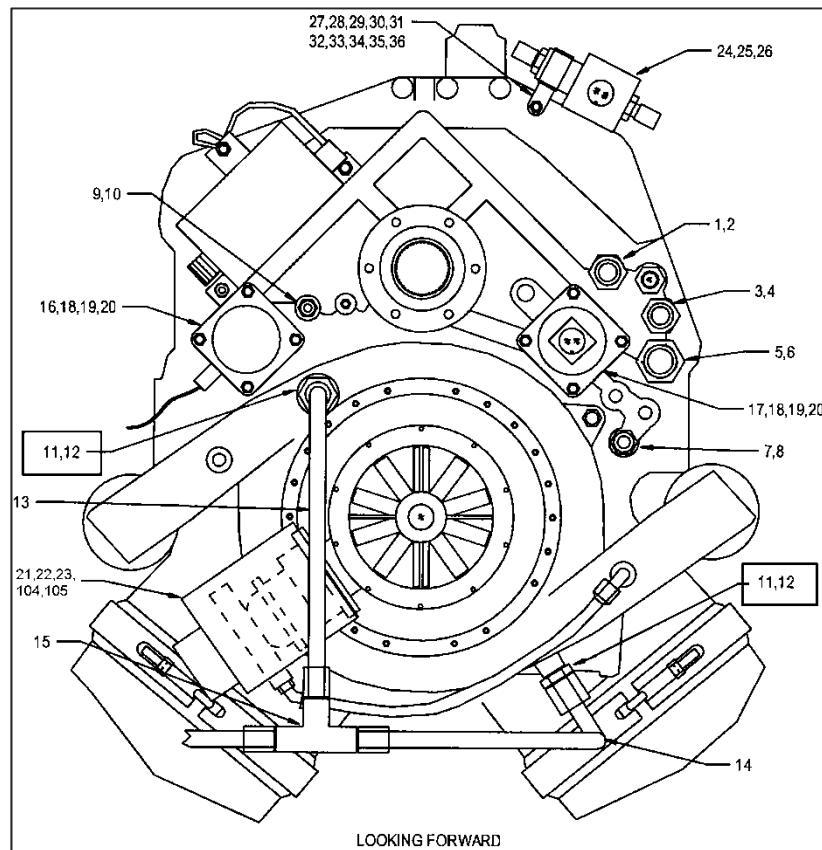


Figure 1. Engine Buildup Assembly (TH-28/480 Series IPC Figure 6-1)

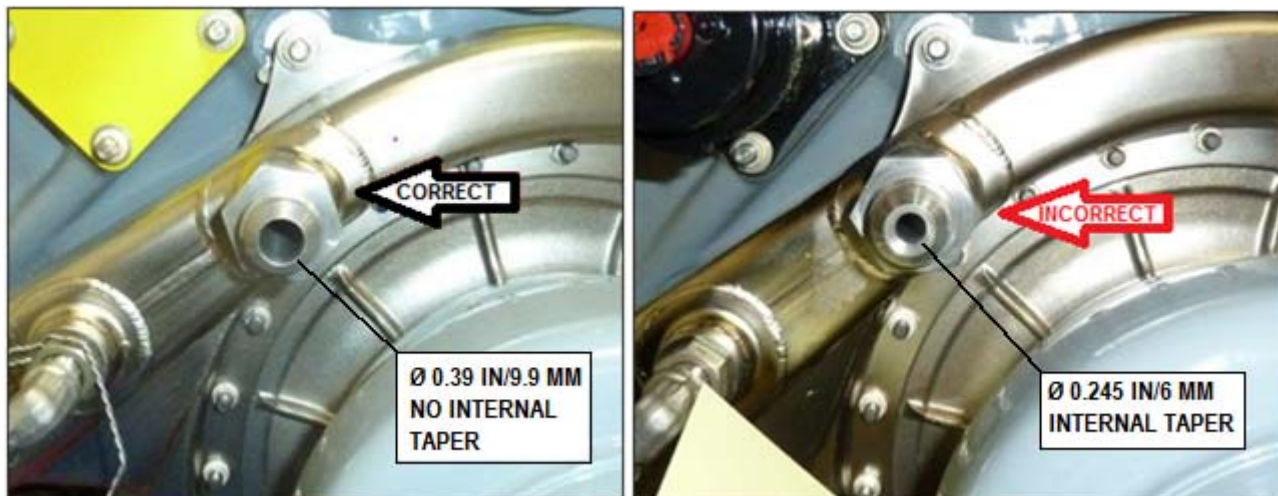


Figure 2. Bleed Air Reducer Restrictor (view looking forward); Correct installation shown on left, Incorrect installation shown on right

7. PARTS: O-Ring (AS3084-08), Quantity 1 or 2, as required
8. SPECIAL TOOLS OR EQUIPMENT: None
9. MAN-HOURS: Inspection – 15 minutes
10. WARRANTY: Per Enstrom policy
11. WEIGHT CHANGE: N/A
12. LOG BOOK ENTRY: Record the results of the visual inspection.
13. REPETITIVE INSPECTIONS: None