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# SERVICE INFORMATION LETTER

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SERVICE INFORMATION LETTER (SIL) NO. 0175  
Revision 1

DATE:            December 12, 2023

1. SUBJECT:      Turbocharger Adapter Assembly
2. MODEL:        F-28C, F-28C-2, F-28C-2R, F-28F, 280C, 280F, and 280FX Helicopters
3. EFFECTIVITY: All serial numbers
4. BACKGROUND:

At the time of the initial release of this Service Information Letter (SIL), Enstrom had received several reports of abnormal engine operation. These reports included symptoms of engine stalling after cold starts, high TIT, and rough or high engine idle. Upon investigation, it was discovered that the screws attaching the adapter to the turbocharger were loose, which caused portions of the adapter gasket to be ingested into the engine intake system. Furthermore, the lack of gasket material combined with the loose screws was causing excessive air leakage into the intake system.

This SIL provides procedures for inspecting the condition and security of the adapter assembly gasket.

Revision 1 clarifies the model list (added variants), removes Figure 1 (applicable illustration provided in the F-28/280 Series Illustrated Parts Catalog), and updates item number references in Paragraph 5.1.

5. COMPLIANCE:

If the engine runs very rough at idle or idle speed increases for no apparent reason, inspect the adapter assembly prior to the next flight. Otherwise, inspect the adapter assembly gasket within the next 100 hours or at the next annual inspection.

Follow the procedure in paragraph 5.1 to check the condition and security of the gasket between the adapter assembly and turbocharger.

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## 5.1 INDUCTION SYSTEM CHECK:

**NOTE**

**Perform all maintenance in accordance with the applicable maintenance manual for the aircraft model and engine model.**

**NOTE**

**Refer to Enstrom F-28/280 Series Illustrated Parts Catalog, Figure 3-3 for the item numbers referenced in the following text.**

- 5.1.1 Remove the seat cushions and back access panel in the fiberglass seat deck. Remove the firewall access panels from the cabin firewall.
- 5.1.2 Check the condition of the gasket (190) between the adapter assembly (160) and turbocharger (200) and the security of the three accessible screws (210) attaching the adapter assembly to the turbocharger.
- 5.1.3 If the screws are secure and the gasket shows no sign of deterioration, no additional inspection is needed. Proceed to paragraph 5.1.9.
- 5.1.4 If the screws are loose or the gasket shows signs of deterioration, remove the turbocharger with the adapter to replace the gasket and/or torque the three remaining screws on the far side. Remove the turbocharger in accordance with paragraph 13-5.B of the F-28F/280F Series Maintenance Manual; or page MM-20-23, (a) through (k) of the F-28C/280C Maintenance Manual. NOTE: When removing the turbocharger, note the placement and number of washers between the turbocharger and the mount brackets.
- 5.1.5 Replace the gasket, if required. NOTE: Identify orientation of adapter to turbocharger for reassembly.
- 5.1.6 Replace the AN503-10-8 screws (210) with NAS1352-3H8P cap screws (210), if desired.
- 5.1.7 Torque the screws (210) to 35 in-lbs/4.0 Nm. Safety wire the screws.
- 5.1.8 Install the turbocharger with the adapter in accordance with paragraph 13-5.D of the F-28F/280F Series Maintenance Manual; or page MM-20-24, (b) through (m) of the F-28C/280C Maintenance Manual.
- 5.1.9 Install access panels and seats.

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6. PARTS: None
7. SPECIAL TOOLS: N/A
8. MAN-HOURS: Inspection – 0.5 hour
9. WARRANTY: N/A
10. WEIGHT CHANGE: N/A
11. LOG BOOK ENTRY: As required for maintenance actions
12. REPETITIVE ACTION: N/A