



# SERVICE INFORMATION LETTER

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SERVICE INFORMATION LETTER NO. 0081

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Date: December 12, 1978

Subject: Inspection of Turbocharger for Oil Leakage Between Bearing Housing Flange and Bearing Housing

Models: F-28C, 280C

Effectivity: All Rajay Model 30IE10-2 Turbochargers Prior to Serial Number 70484

There have been several field reports of oil leakage between the bearing housing flange and bearing housing on the Rajay Model 30IE10-2 turbocharger assembly due to loss of torque in service on (3) flange attach screws. Analysis of some of the units indicates loss of torque was caused by operating temperatures in excess of published limitations. Perform the following inspection on the above serial numbered assemblies.

1. Check for play or loose connection between bearing housing flange and bearing housing.
2. Check for oil leakage between bearing housing flange and bearing housing.

NOTE: See Figure 1

If a looseness or oil leakage is detected perform the following maintenance:

1. Remove turbocharger from helicopter (See F-28C - 280C Maintenance Manual Supplement Page MM-20-23 Turbocharger Removal Steps a-1)
2. Scribe mating index mark on bearing housing and bearing housing flange so they can later be reassembled in the same position.
3. Remove compressor housing using a 5/32 allen wrench to remove (6) countersunk cap screws that secure the compressor housing to the bearing housing assembly. Separate these two components and remove the gasket. It may be necessary to tap the compressor housing gently with a plastic mallet while holding the bearing housing assembly.

4. Tighten (3) cap screws that secure bearing housing flange to bearing housing evenly to 80-100 inch pounds and stake in two places as shown in Figure 2.
5. Inspect compressor housing gasket surface for damage and old gasket material. Clean gasket surfaces and install new compressor housing gasket. (Rayjay P/N TC-6-44)
6. Install compressor housing and secure with six cap screws and tighten evenly & alternately to 80 to 100 inch-pounds.
7. Install turbocharger on helicopter (See F-28C-280C Maintenance Manual Supplement Pages MM-20-23 and MM-20-24).

Compressor housing gasket P/N TC-6-44 and if desired manual No. 3F581 Maintenance & Overhaul Manual Rajay 300 Series turbochargers are available from Enstrom Customer Service.

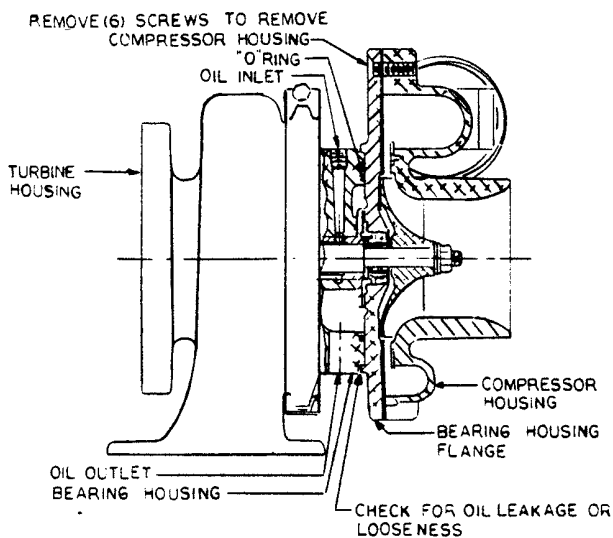


FIG. 1 CROSS SECTION OF TURBOCHARGER

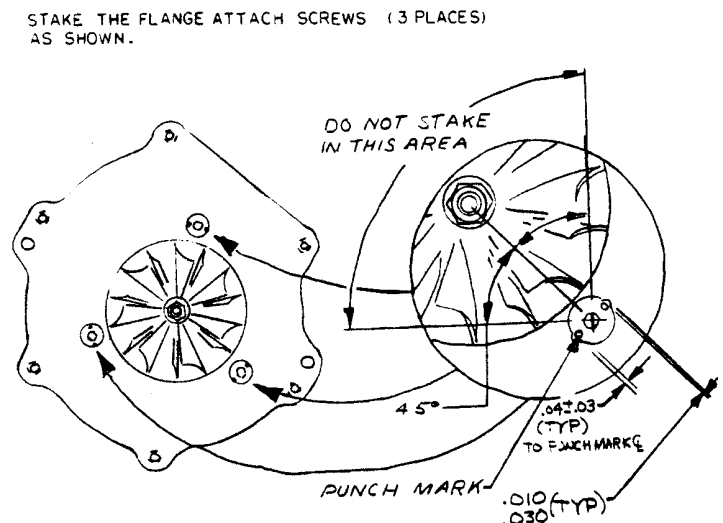


FIG. 2 VIEW OF BRG. HOUSING FLANGE