



THE ENSTROM HELICOPTER CORPORATION

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SERVICE INFORMATION LETTER

SERVICE INFORMATION LETTER NO. 0176

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DATE: July 11, 2011

1. SUBJECT: Alternative Lubrication Method for ECD016 and ECD018 Bearings
2. MODEL: F28A, 280, F28C, 280C, F28F, 280F, and 280FX Helicopters
3. EFFECTIVITY: All
4. BACKGROUND:

The F28F/280F Series Maintenance Manual calls out hand packing as the method of lubricating the ECD016 Tail Rotor (TR) Pitch Change Bearing (107KSZZ6) and the ECD018 Idler Pulley Bearings (202SZZ). Continuously removing the seal from the bearing can cause damage to the seal with the result that the seal leaks grease or may not stay installed in the bearing during operation of the helicopter. This SIL provides an alternative method of lubricating the ECD016 and ECD018 bearings using a medical type hypodermic syringe.

5. COMPLIANCE:

F28F, 280F, and 280FX Models: Service the tail rotor pitch change and idler pulley bearings in accordance with the F28F/280F Series Maintenance Manual, Lubrication and Servicing Chart, pages MM-4-4 and MM-4-5, and with the approved greases listed in SIL 0137 at the servicing locations as shown in Figure 1. **CAUTION: Do not mix greases.**

F28A, 280, F28C, and 280C Models: Service the tail rotor pitch change and idler pulley bearings every 100 hours with the approved greases listed in SIL 0137 at the servicing locations as shown in Figure 1. **CAUTION: Do not mix greases.**

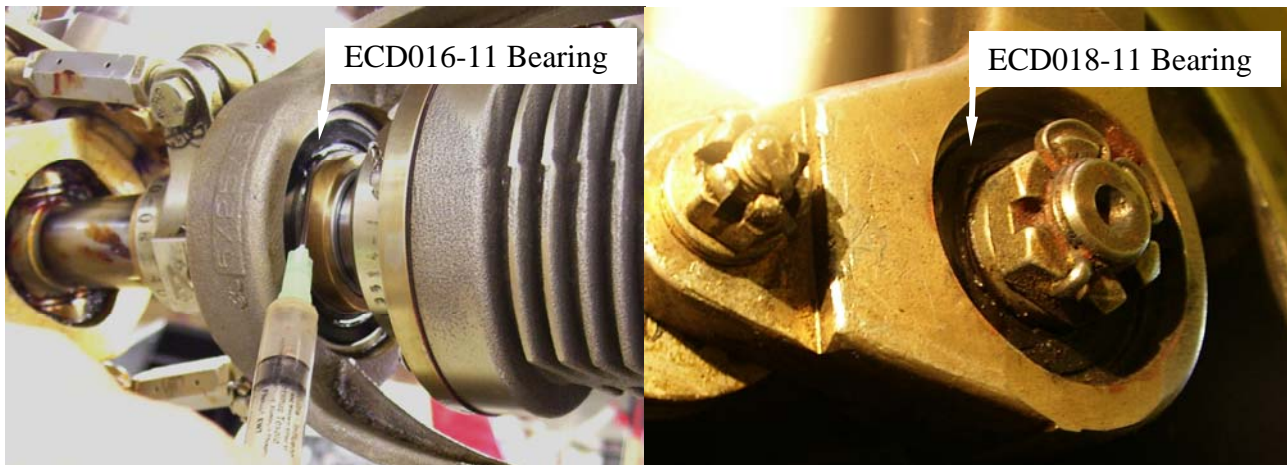
6. ALTERNATIVE LUBRICATION PROCEDURE:

NOTE

Purge the needle prior to each use and lubricate the external surface of the needle with grease to prevent seal damage.

- A. Using a 6 cubic centimeter (cc) medical syringe and an 18 gauge hypodermic needle, inject .5cc of grease into the bearing in two places, approximately 180° apart. Carefully insert the tip of the needle under the lip of the seal where it contacts the inner race of the bearing (Figure 1). The tip of the needle can be worked under the lip of the seal and into the bearing between the balls. If the needle does not penetrate between the balls, the needle can be withdrawn and inserted in another position on the bearing.

- B. Wipe the excess grease from the surface of the seal as necessary.
7. PARTS: Approved greases per SIL 0137
8. SPECIAL TOOLS: 6 cubic centimeter medical syringe and 18 gauge hypodermic needle.
9. MAN-HOURS: N/A
10. WARRANTY: N/A
11. WEIGHT CHANGE: N/A
12. LOG BOOK ENTRY: N/A
13. REPETITIVE ACTION: 100 Hour/Annual Service



ECD016-11 TR Pitch Change Bearing

ECD018-11 Idler Pulley Bearing (2 places)

Figure 1. Lubrication Method Using Syringe Needle (As shown for ECD016-11)