



THE ENSTROM HELICOPTER CORPORATION

2209 22nd STREET, MENOMINEE, MICHIGAN 49858

SERVICE INFORMATION LETTER

SERVICE INFORMATION LETTER NO. T-037

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- DATE: October 23, 2009
1. SUBJECT: Failure of the Engine Drive Shaft Support Bearing (ECD4017), the Overrunning Clutch Duplex Support Bearing (ECD4014), and/or the P/N 23063426 Double Lip Seals
 2. MODEL: TH-28, 480, and 480B
 3. EFFECTIVITY: TH-28, all serial numbers
480, all serial numbers
480B, 5039 through 5130

NOTE

The Gearbox Bore Measurement and Offset Bearing Housing Installations required in accordance with this Service Information Letter have been complied with on 480B, S/N 5101 and 5114 via a FAA Form 337.

4. BACKGROUND:

Enstrom has received reports of several failures of the Engine Driveshaft Aft Support Bearing, (ECD4017), the Overrunning Clutch Duplex Support Bearing (ECD4014), and /or the P/N 23063426 double lip seal that are installed in the Rolls-Royce Gearbox. During the investigation of these failures, Enstrom determined that the bearing bores inside the Rolls-Royce Gearbox, which locate the Rolls-Royce PTO shaft, and the bores on the outside of the gearbox, which locate the P/N 23063426 double lip seal and the ECD4014 and ECD4017 bearings, may not be concentric due to tolerance build up. Enstrom has created variants of the 4131006 and 4131007 bearing housings with offset bores to correct this misalignment. This Service Information Letter (SIL) identifies procedure for measuring and correcting the offset of the 4131006 and 4131007 bearing housings with respect to the engine power take-off (PTO) shaft.

5. COMPLIANCE:

If the helicopter experiences a failure of the ECD4014 bearing, the ECD4017 bearing, or the P/N 23063426 double lip seal, comply with the instructions of Section 6.

6. INSTRUCTIONS:

Contact Enstrom Customer Support to arrange for special tools and technical support to measure and correct the concentricity of the bearing locations in the Rolls-Royce Gearbox in accordance with the Enstrom TH-28/480 Series Maintenance Manual, Revision 10, paragraph 13-117, I.

7. WARRANTY:

Per Enstrom policy.

8. WEIGHT CHANGE:

N/A

9. LOG BOOK ENTRY:

As required for maintenance actions.

10. REPETITIVE INSPECTIONS:

None