



Technical Service Information

THM 4T40-E TROUBLE CODE P1887 OR P0742

COMPLAINT: Before and/or after rebuild, the vehicle illuminates the check engine lamp and stores code P1887 or P0742 in memory. Once the code is stored, TCC will be inhibited and maximum line pressure will be set creating harsh engagements and shifts.
P1887 Code Definition; TCC Release Switch Circuit Malfunction.
P0742 Code Definition; TCC Locked On.

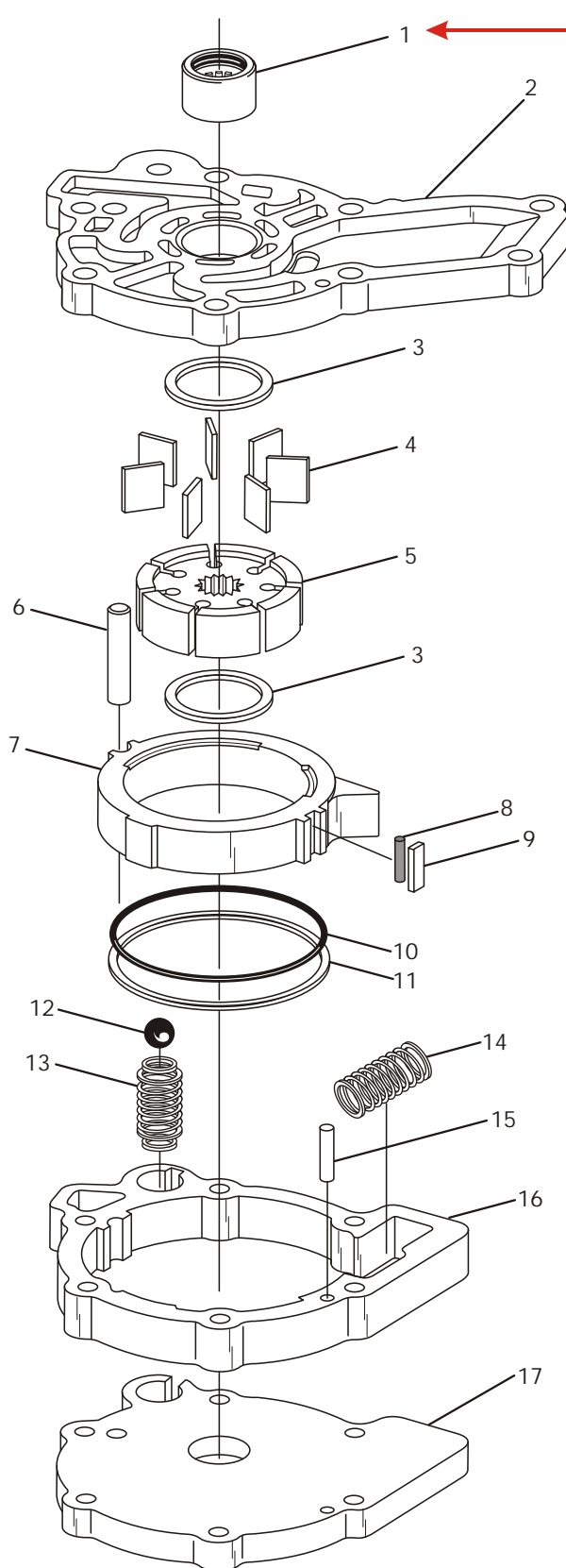
CAUSE: This is usually created by a leak of TCC release oil through the needle bearing and seal assembly located in the oil pump, as shown in Figure 1.

CORRECTION: This needle bearing and seal assembly is now available under TranStar part number 67922B, which is a 2000 and later AX4N pump bearing and seal assembly. The AX4N bearing is not available from Ford Motor Co. The bearing is also available from Sonnax® under part number 33000-01. In some instances, because of the bearing failure, the entire pump assembly will have to be replaced and is available under OEM part number 24208987.
This Needle Bearing and Seal Assembly has been such a high failure item that ATSG recommends the needle bearing and seal assembly be replaced on every rebuild.

SERVICE INFORMATION:

Needle Bearing And Seal Assembly (TranStar Number)	67922B
Needle Bearing And Seal Assembly (Sonnax® Number)	33000-01
Oil Pump Assembly Complete	24208987

THM 4T40-E OIL PUMP ASSEMBLY



*This Needle Bearing And Seal Assembly
Is Now Available Under
TRANSTAR Part No. 67922B or
SONNAX® Part No. 33000-01*

1. NEEDLE BEARING AND SEAL ASSEMBLY (NOT SERVICED)
2. OIL PUMP BASE
3. OIL PUMP VANE RING (2 REQUIRED)
4. OIL PUMP VANES (7 REQUIRED)
5. OIL PUMP ROTOR
6. OIL PUMP SLIDE PIVOT PIN
7. OIL PUMP SLIDE
8. OIL PUMP SLIDE SEAL SUPPORT
9. OIL PUMP SLIDE SEAL
10. OIL PUMP SLIDE SEAL "O" RING
11. OIL PUMP SLIDE TO COVER SEAL
12. PRESSURE RELIEF BALL
13. PRESSURE RELIEF SPRING
14. OIL PUMP SLIDE PRIMING SPRING (SAME AS 125C)
15. LOCATING DOWEL
16. OIL PUMP BODY
17. OIL PUMP COVER

Figure 1