



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.

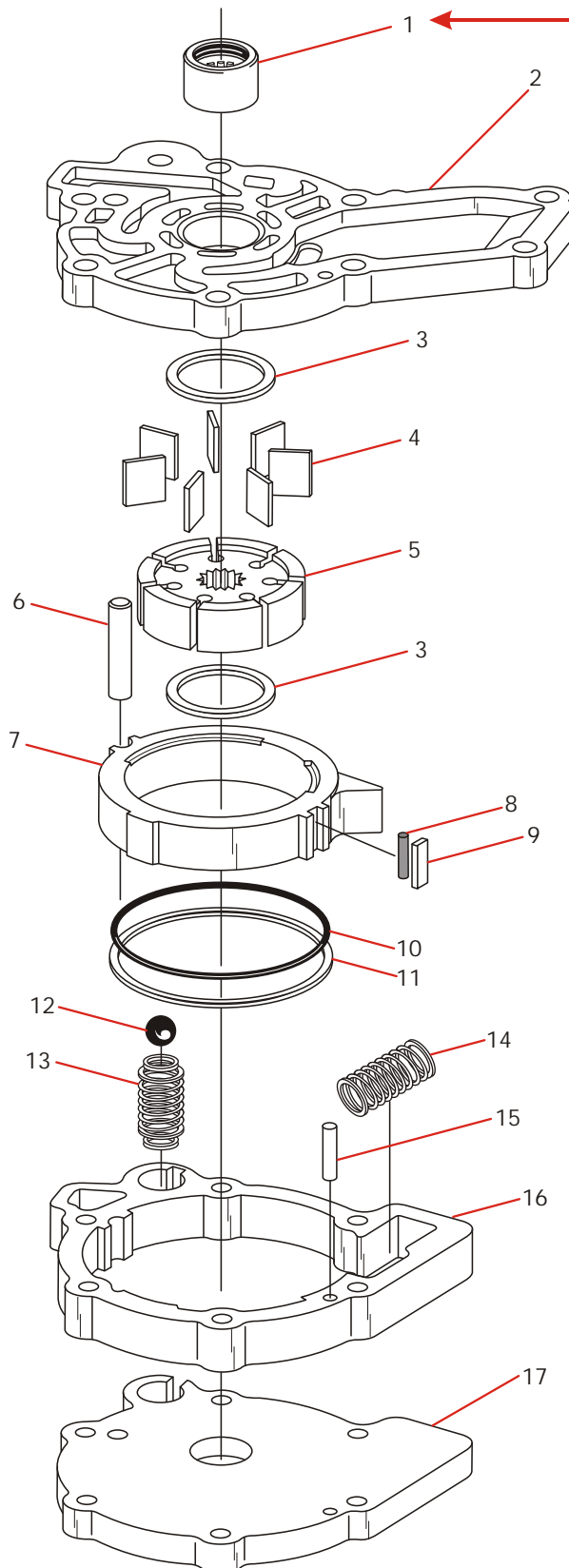
CORRECTION: The unfortunate part of the correction process is that the Needle Bearing and Seal Assembly is not available as a service item from General Motors. The **only** way to acquire the Needle Bearing and Seal Assembly is to purchase a complete pump assembly from the OEM supplier, available under OEM part number 24208987.
This Needle Bearing and Seal Assembly has been such a high failure item that ATSG recommends the pump assembly be replaced on every rebuild.

SERVICE INFORMATION:

Oil Pump Assembly Complete 24208987

THM 4T40-E OIL PUMP ASSEMBLY

This Needle Bearing and Seal Assembly Is Not Serviced. You Must Purchase The Complete Pump Assembly Available Under OEM Part Number 24208987



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

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