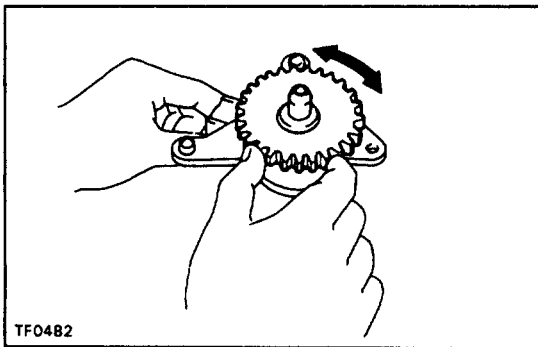
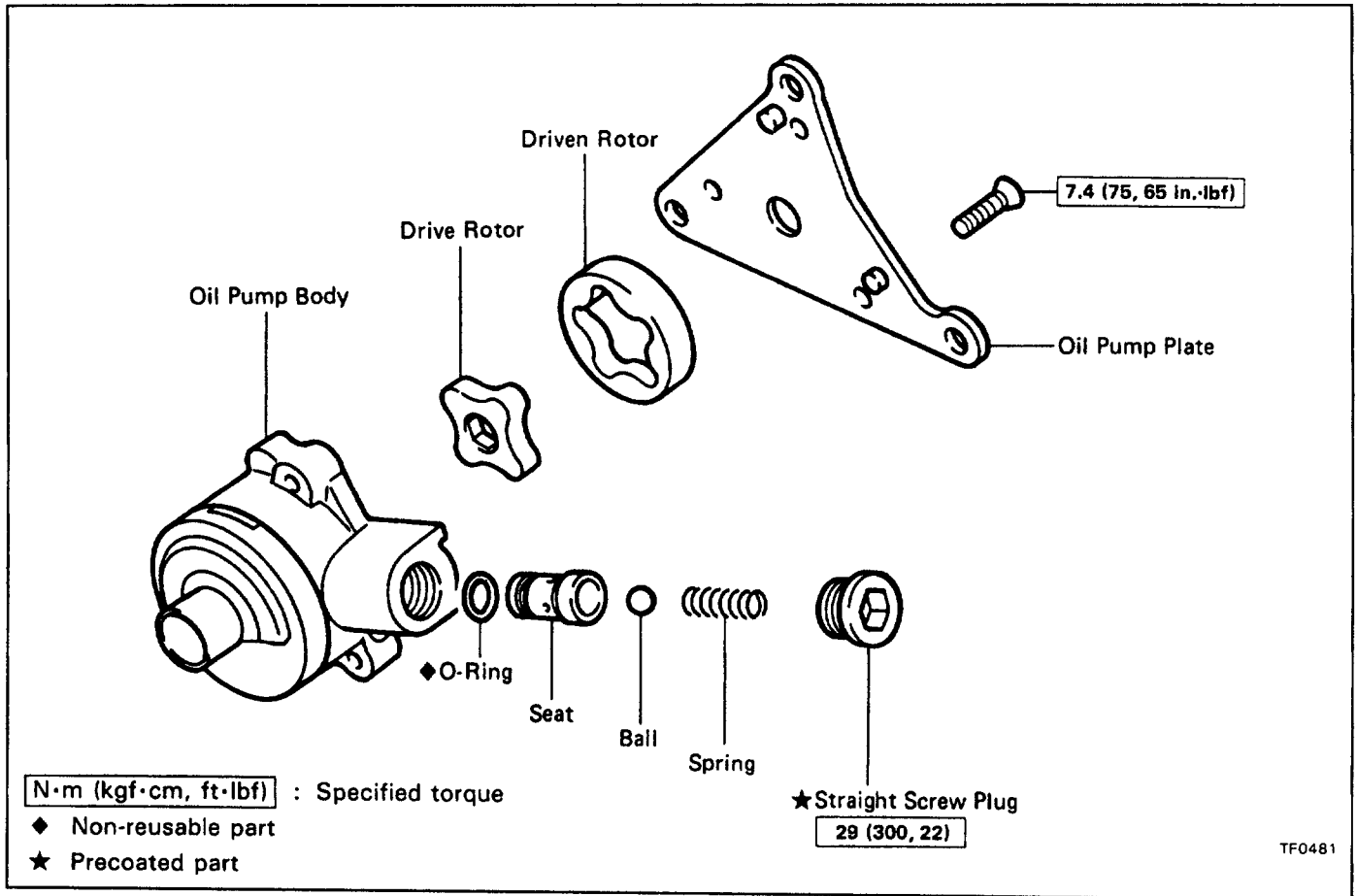


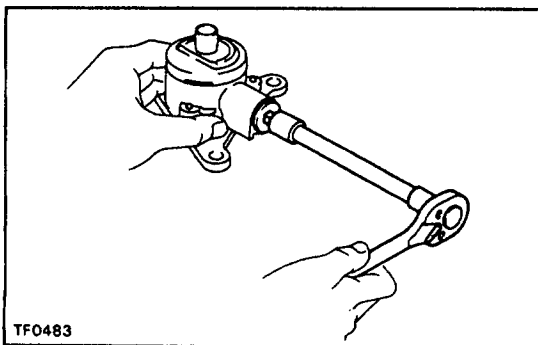
OIL PUMP BODY COMPONENTS



OIL PUMP BODY DISASSEMBLY

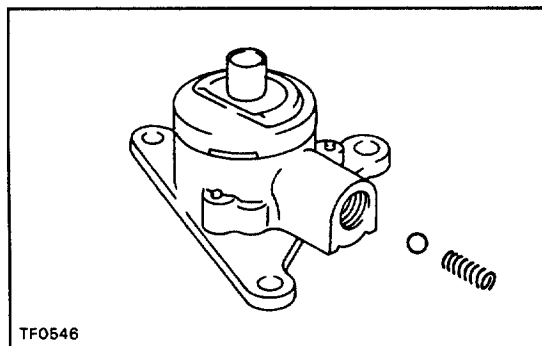
1. CHECK OIL PUMP OPERATION

Install the oil pump drive gear to the drive rotor, check that the drive rotor turns smoothly.

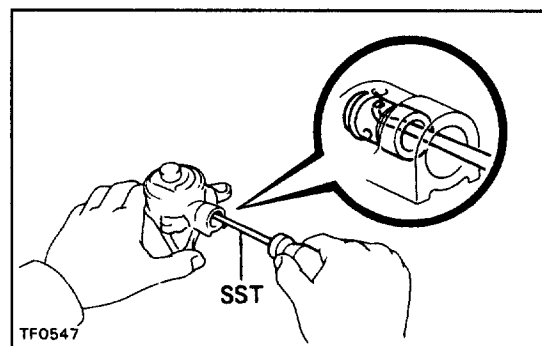


2. REMOVE STRAIGHT SCREW PLUG, SPRING, BALL AND SEAT

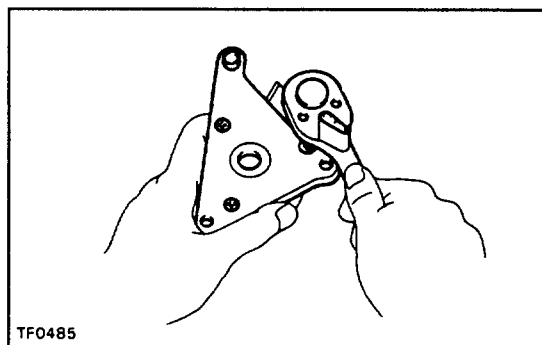
- (a) Using a hexagon wrench, remove the straight screw plug.



- (b) Using a magnetic finger remove the spring and ball.



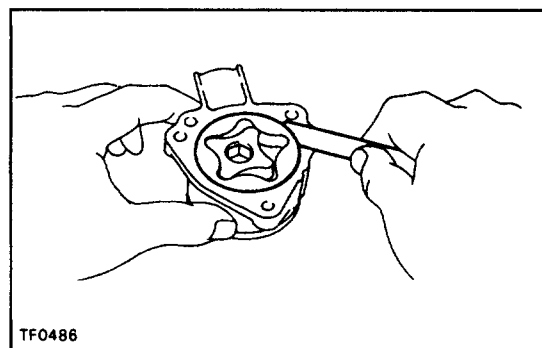
- (c) Using SST, pull out the seat.
SST 09921-00010
(d) Remove the O-ring from the seat.



3. REMOVE OIL PUMP PLATE

- (a) Using a torx socket wrench, unscrew the 3 torx screws.
(Torx socket wrench T30 09042-00010)
(b) Remove the oil pump plate.

4. REMOVE DRIVE ROTOR AND DRIVEN ROTOR



OIL PUMP BODY INSPECTION

1. CHECK DRIVEN ROTOR BODY CLEARANCE

Push the driven rotor to one side of the body. Using a feeler gauge, measure the clearance.

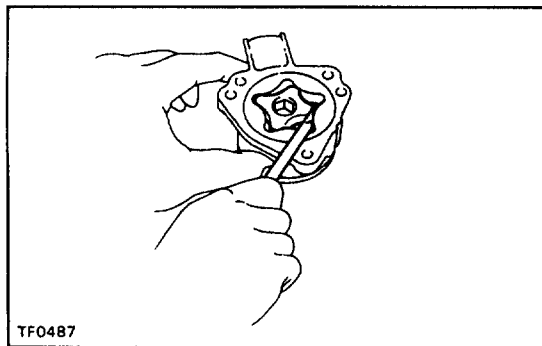
Standard clearance:

0.10–0.16 mm (0.0039–0.0063 in.)

Maximum clearance:

0.16 mm (0.0063 in.)

If the clearance exceeds the limit, replace the drive rotor, driven rotor or pump body.



2. CHECK BOTH ROTORS TIP CLEARANCE

Using a feeler gauge, measure the clearance between both rotor tips.

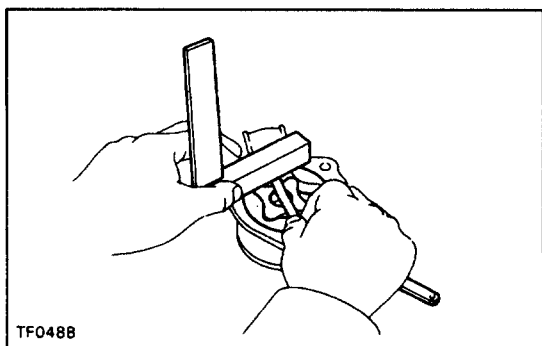
Standard clearance:

0.08–0.16 mm (0.0031–0.0063 in.)

Maximum clearance:

0.16 mm (0.0063 in.)

If the clearance exceeds the limit, replace the drive rotor driven rotor or pump body.



3. CHECK BOTH ROTORS SIDE CLEARANCE

Using a steel straight edge and feeler gauge, measure the clearance between the rotors and straight edge.

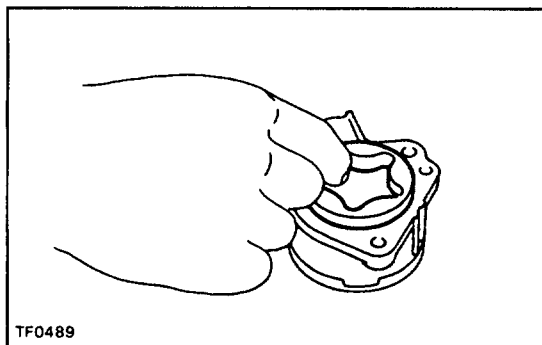
Standard clearance:

0.03–0.08 mm (0.0012–0.0031 in.)

Maximum clearance:

0.08 mm (0.0031 in.)

If the clearance exceeds the limit, replace the drive rotor, driven rotor or pump body.

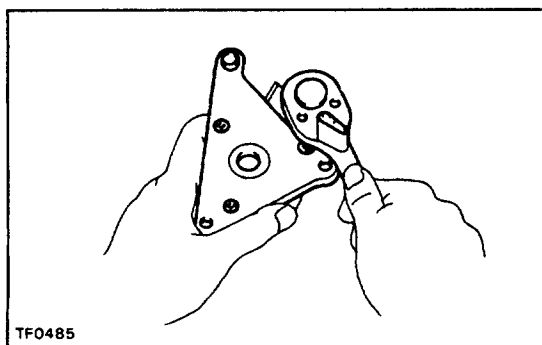
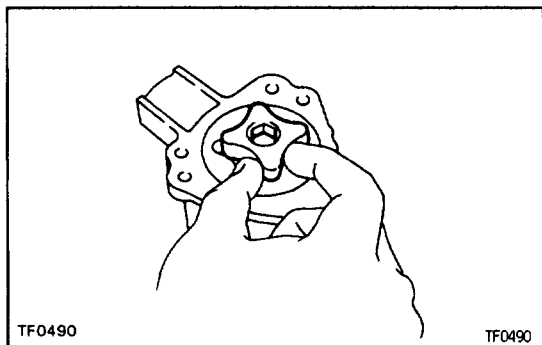


OIL PUMP BODY ASSEMBLY

1. INSTALL OIL PUMP DRIVE ROTOR AND DRIVEN ROTOR

- (a) Apply gear oil to both of the rotors.
- (b) Install the driven rotor.

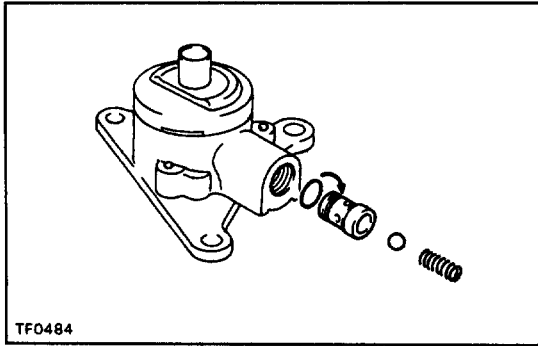
- (c) Install the drive rotor.



2. INSTALL OIL PUMP PLATE

- (a) Install the oil pump plate.
- (b) Using a torx socket wrench, tighten the 3 torx screws.
(Torx socket wrench T30 09042–00010)

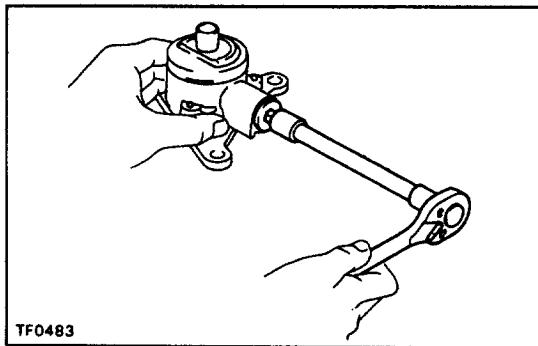
Torque: 7.4 N·m (75 kgf·cm, 65 in·lbf)



3. INSTALL SEAT, BALL, SPRING AND STRAIGHT SCREW PLUG

- (a) Install a new O-ring to the seat.
- (b) Install the seat, ball and spring.

HINT: When installing the seat, push the seat until it touches the bottom of the hole in the body.

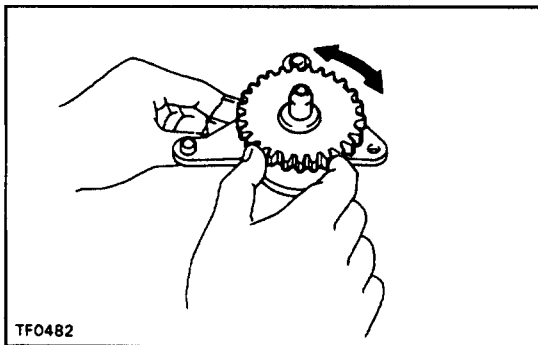


- (c) Apply liquid sealer to the plug.

Sealant:

Part No. 08833-00080, THREE BOND 1344, LOCTITE 242 or equivalent

- (d) Using a hexagon wrench, torque the plug.
Torque: 29 N·m (300 kgf·cm, 22 ft·lbf)



4. CHECK OIL PUMP OPERATION

Install the oil pump drive gear to the drive rotor, check that the drive rotor turns smoothly.