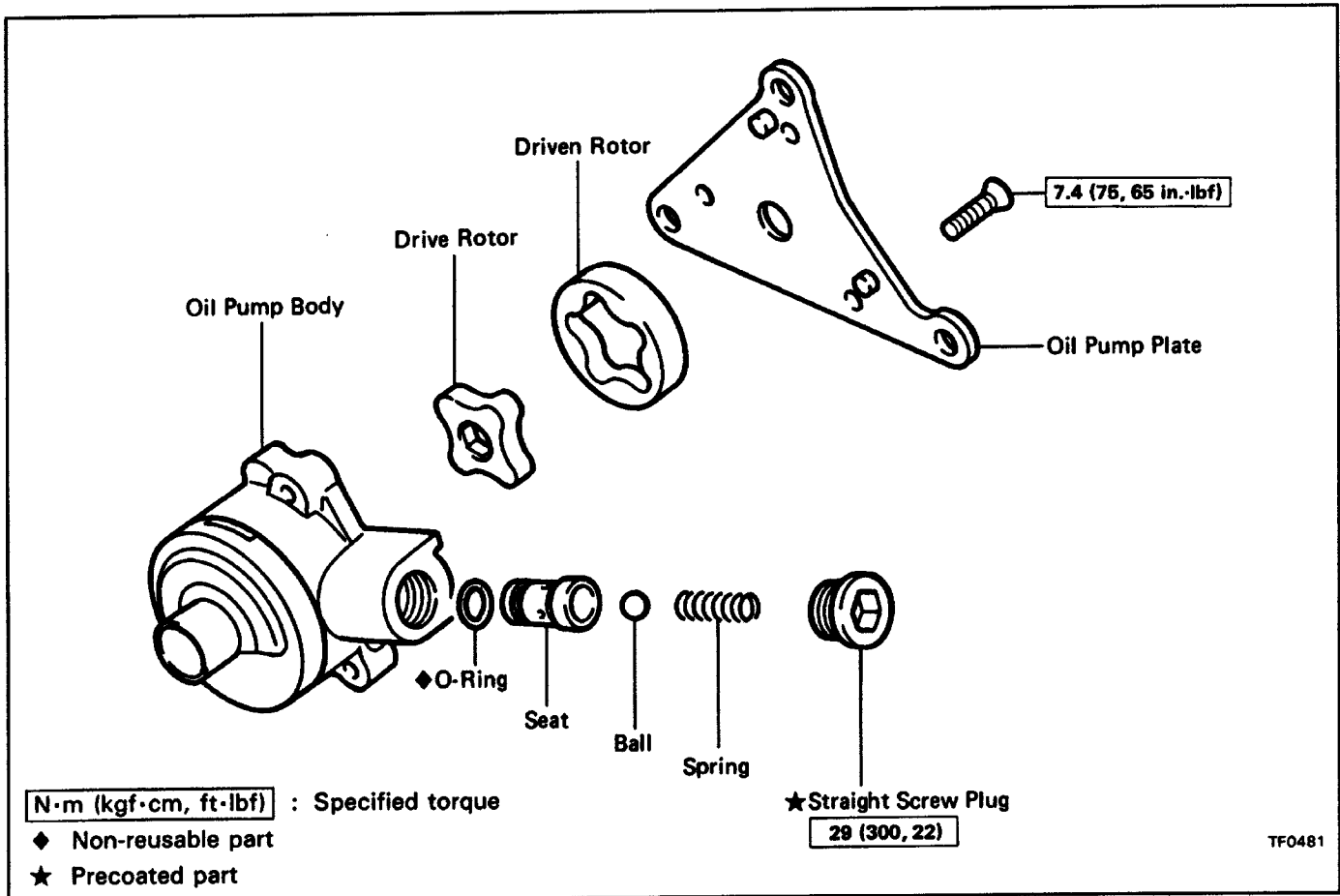


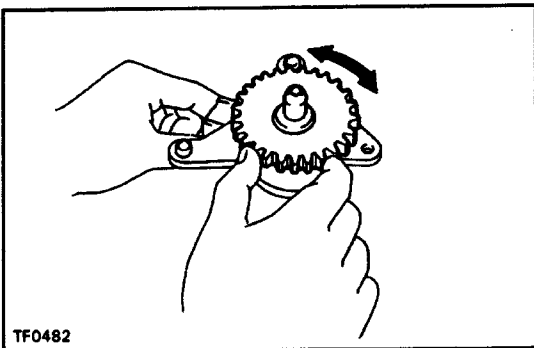
# OIL PUMP BODY COMPONENTS



## OIL PUMP BODY DISASSEMBLY

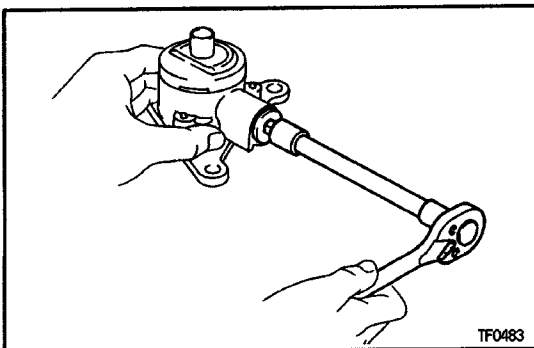
### 1. CHECK OIL PUMP OPERATION

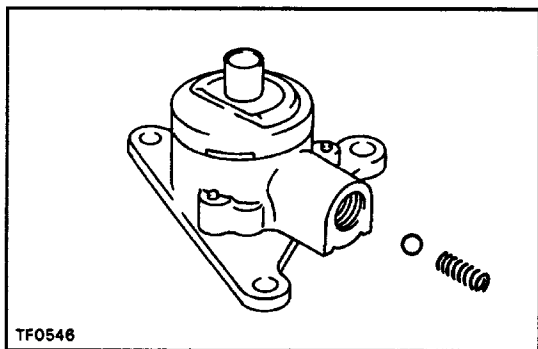
Install the oil pump drive gear to the drive rotor, check that the drive rotor turns smoothly.



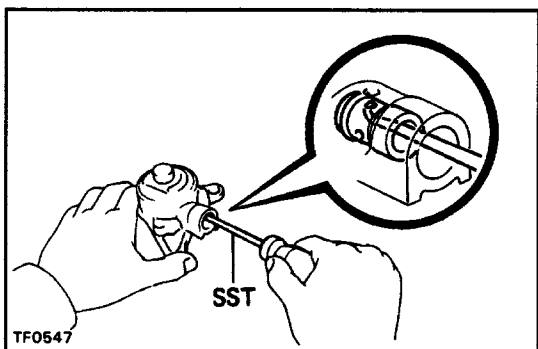
### 2. REMOVE STRAIGHT SCREW PLUG, SPRING, BALL AND SEAT

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





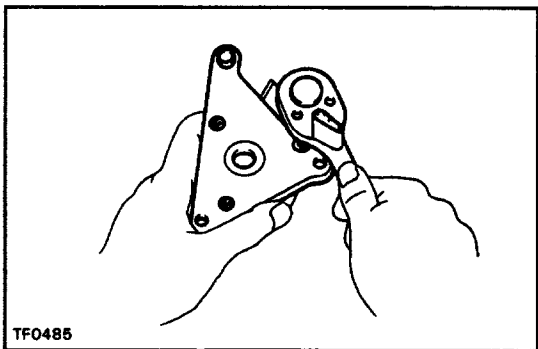
(b) Using a magnetic finger remove the spring and ball.



(c) Using SST, pull out the seat.

SST 09921- 00010

(d) Remove the O-ring from the seat.



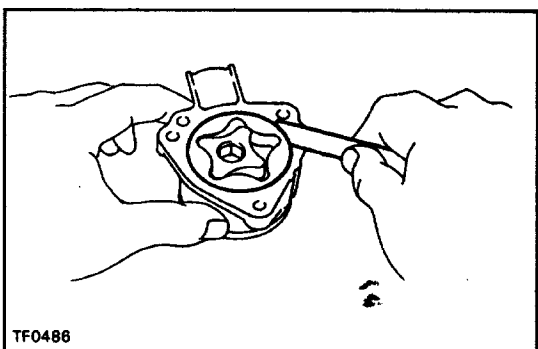
### 3. REMOVE OIL PUMP PLATE

(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. INSPECT DRIVEN ROTOR BODY CLEARANCE

Push the driven rotor to one side of the body.

Using a feeler gauge, measure the clearance.

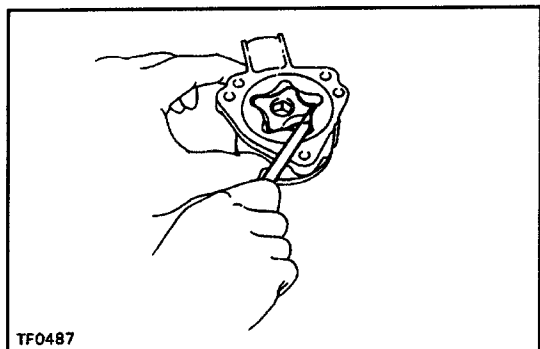
**Standard clearance:**

**0.10 – 0.16 mm (0.0039 – 0.0063 in.)**

**Maximum clearance:**

**0.16 mm (0.0063 in.)**

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



## 2. INSPECT BOTH ROTORS TIP CLEARANCE

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

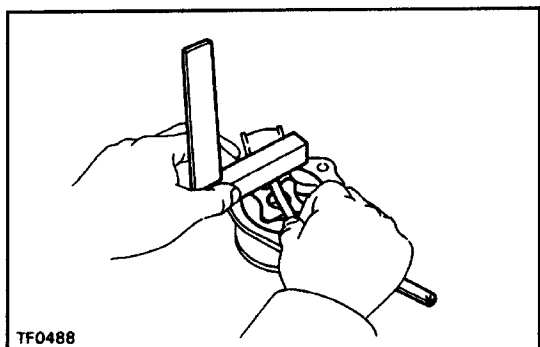
**Standard clearance:**

**0.08 – 0.16 mm (0.0031 – 0.0063 in.)**

**Maximum clearance:**

**0.16 mm (0.0063 in.)**

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



## 3. INSPECT BOTH ROTORS SIDE CLEARANCE

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

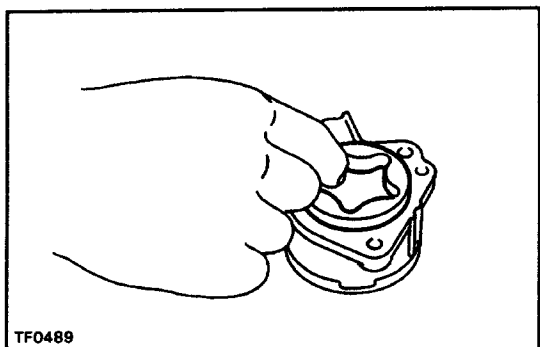
**Standard clearance:**

**0.03 – 0.08 mm (0.0012 – 0.0031 in.)**

**Maximum clearance:**

**0.08 mm (0.0031 in.)**

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

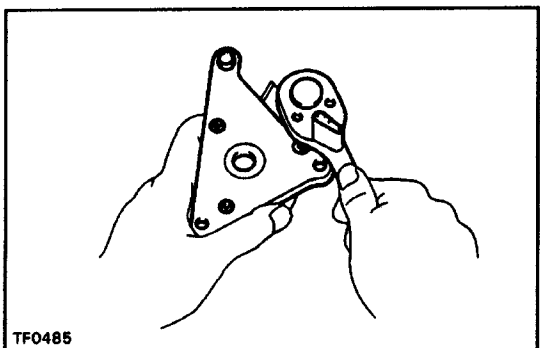
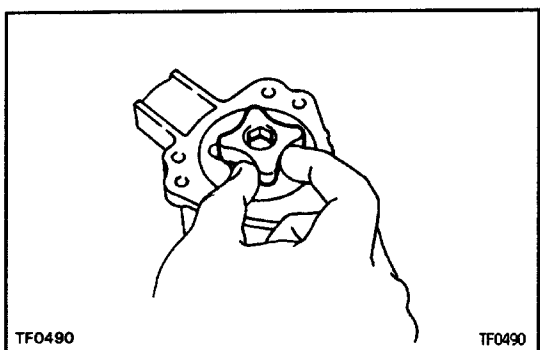


# OIL PUMP BODY ASSEMBLY

## 1. INSTALL OIL PUMP DRIVE ROTOR AND DRIVEN ROTOR

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

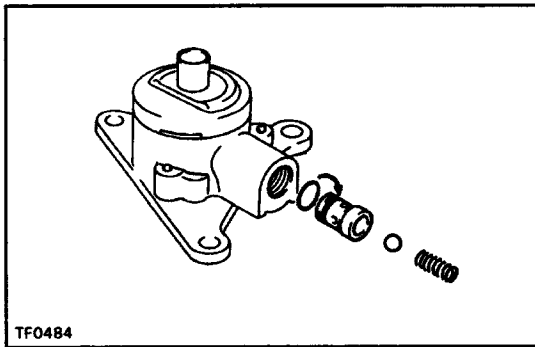
- (c) Install the drive rotor.



## 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)**

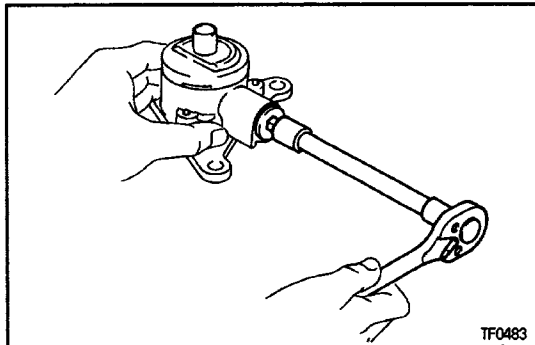


### 3. INSTALL SEAT, BALL, SPRING AND STRAIGHT SCREW PLUG

(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.

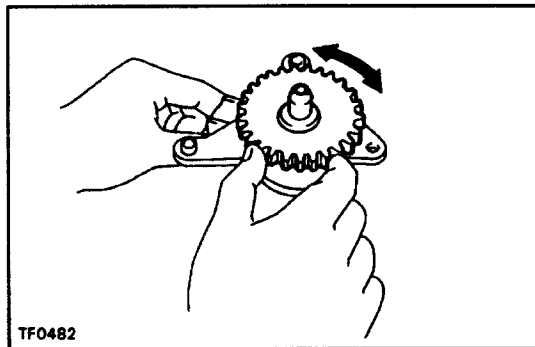


(c) Apply liquid sealer to the plug.

**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.