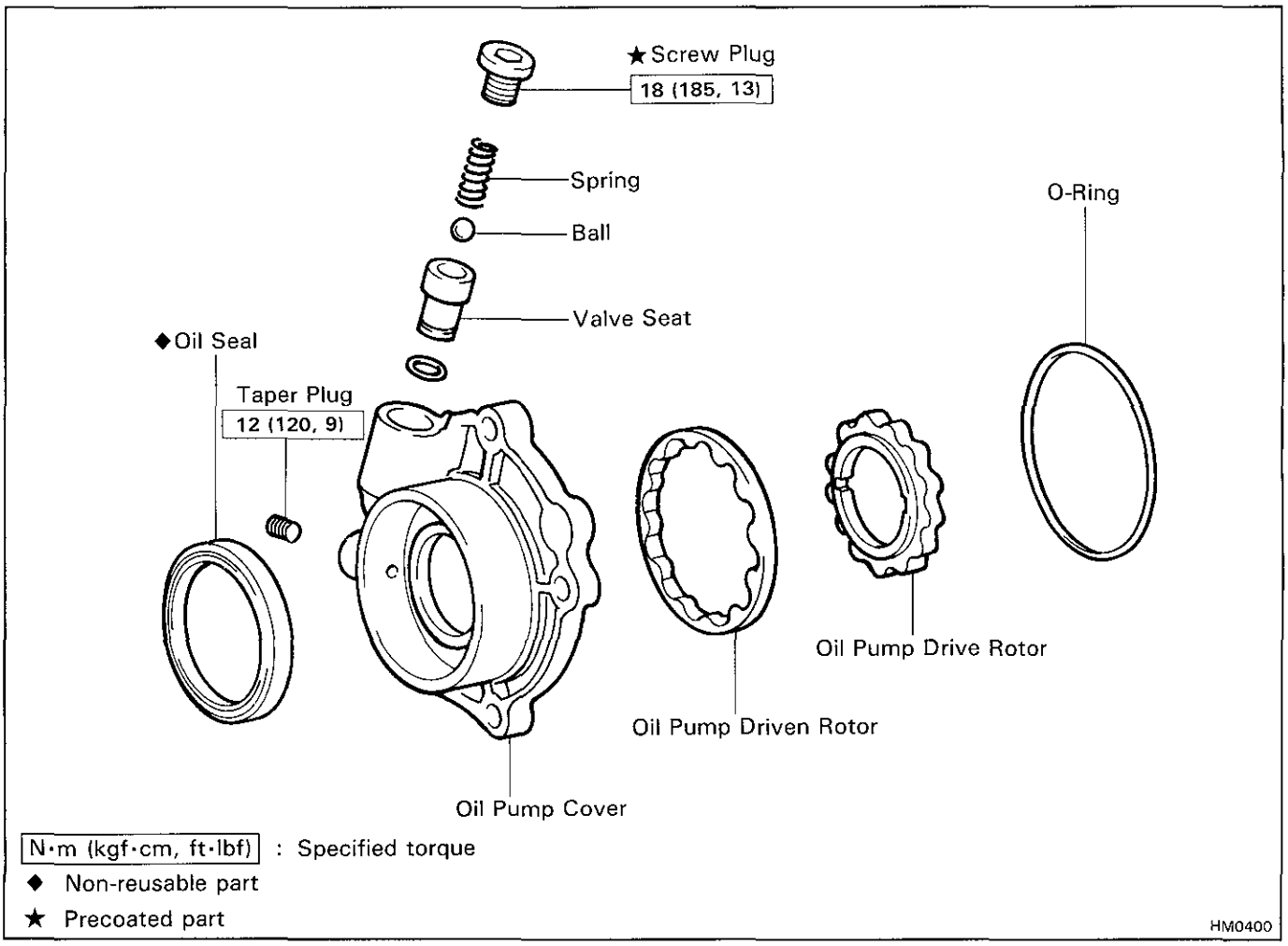
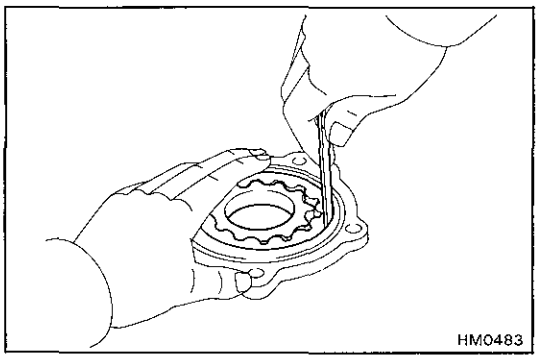
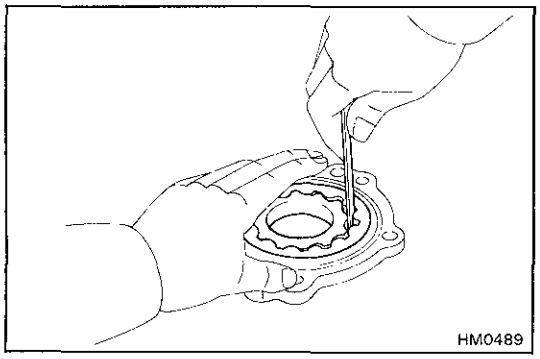
OIL PUMP COVER

COMPONENTS







DISASSEMBLY OF OIL PUMP COVER ASSEMBLY

1. CHECK BODY CLEARANCE OF DRIVEN ROTOR

Push the driven rotor to one side of the cover.

Using a feeler gauge, measure the clearance.

Standard clearance: **0.075 — 0.170 mm (0.0030 — 0.0067 in.)**

Maximum clearance: **0.170 mm (0.0067 in.)**

If the clearance more than the limit, replace the driven rotor or pump cover.

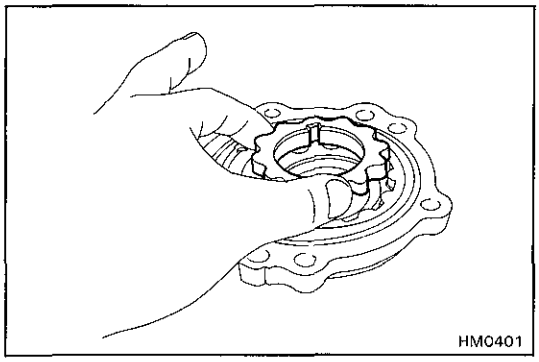
2. CHECK TIP CLEARANCE OF BOTH ROTORS

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

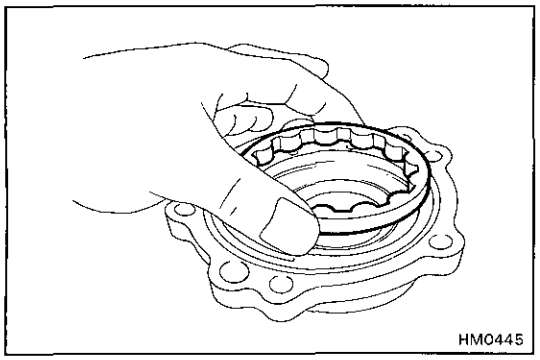
Standard clearance: **0.10 — 0.22 mm (0.0039 — 0.0087 in.)**

Maximum clearance: **0.22 mm (0.0087 in.)**

If the clearance more than the limit, replace the drive rotor or driven rotor.

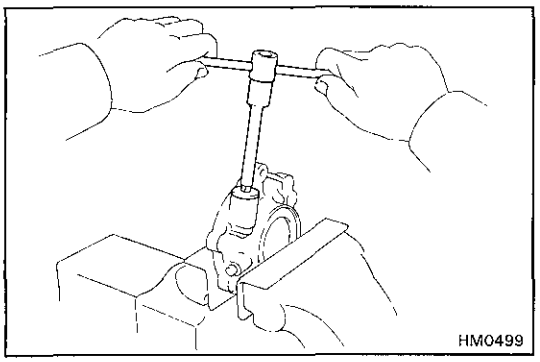

HM0401

3. **REMOVE OIL PUMP DRIVE ROTOR**


HM0445

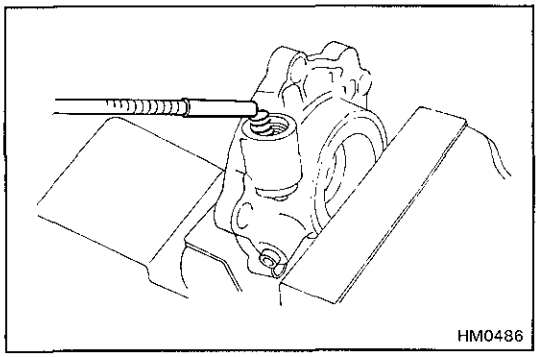
4. **REMOVE OIL PUMP DRIVEN ROTOR**

5. **REMOVE O-RING**

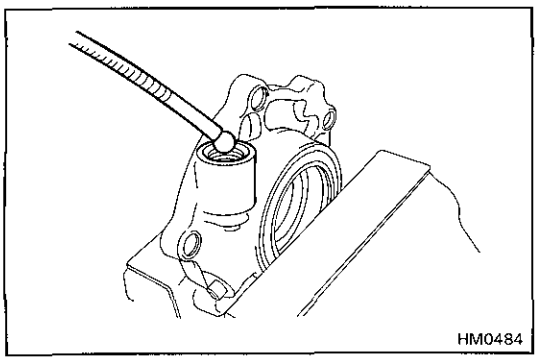

HM0499

6. **REMOVE SCREW PLUG, SPRING, BALL AND VALVE SEAT**

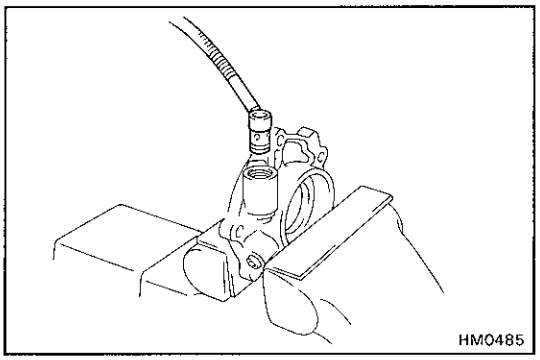
(a) Using a hexagon wrench, remove the screw plug.


HM0486

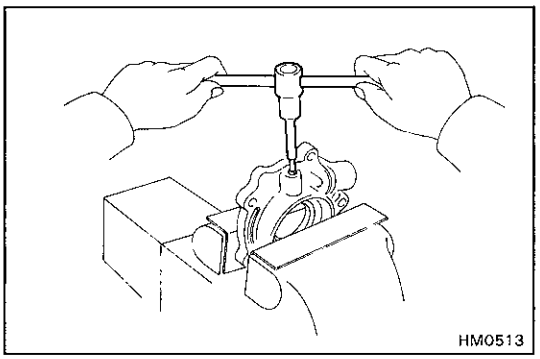
(b) Using a magnetic finger, remove the spring.


HM0484

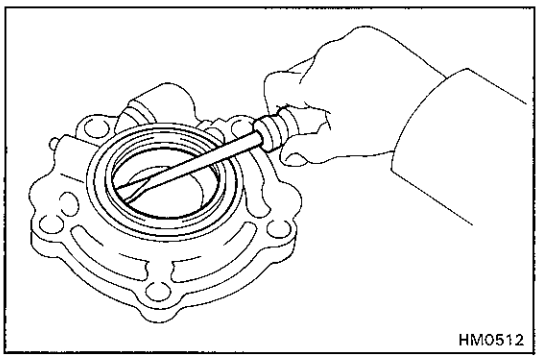
(c) Using a magnetic finger, remove the ball.



(d) Using a magnetic finger, remove the valve seat.
(e) Remove the O-ring from the valve seat.



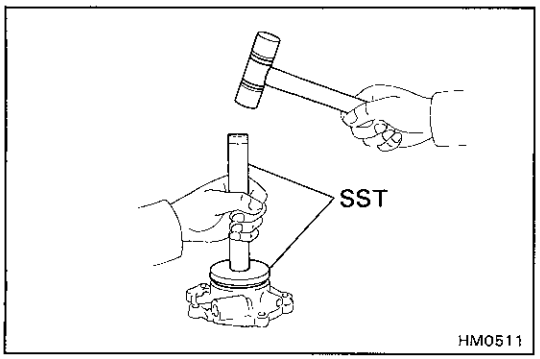
7. REMOVE TAPER PLUG



8. REMOVE OIL SEAL

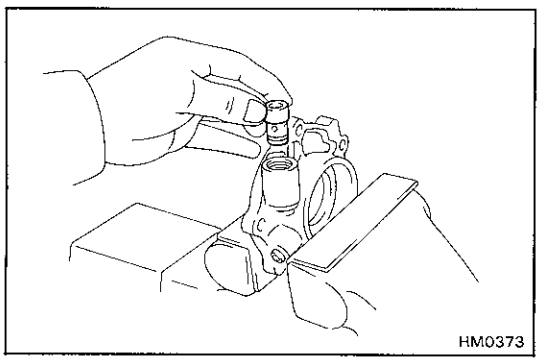
Using a screwdriver, pry out the oil seal.

ASSEMBLY OF OIL PUMP COVER ASSEMBLY



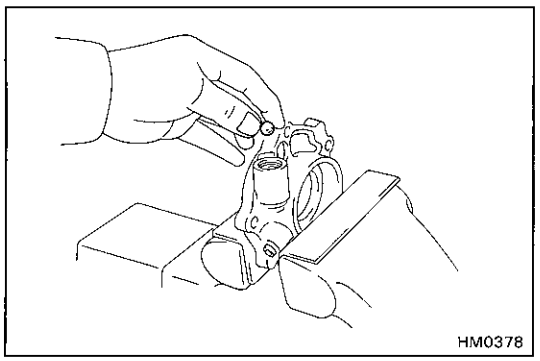
1. INSTALL OIL SEAL

Using SST and a hammer, drive in the oil seal.
SST 09608-12010 (09608-00020, 09608-00060)

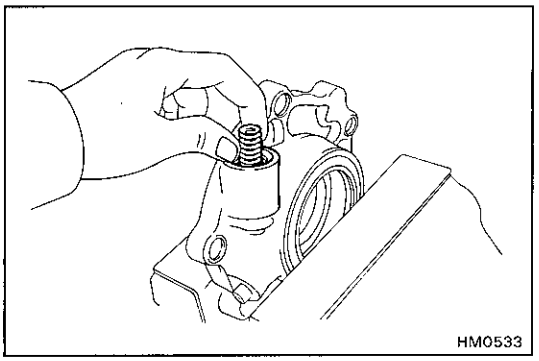


2. INSTALL VALVE SEAT, BALL, SPRING AND SCREW PLUG

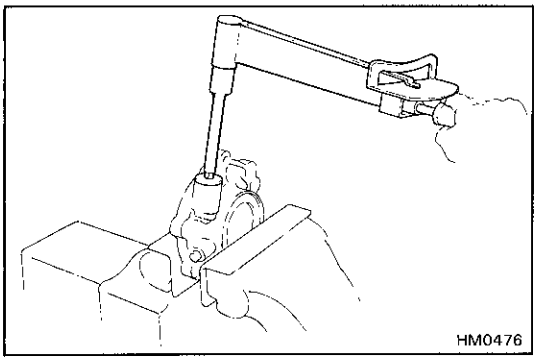
(a) Install the O-ring to valve seat.
(b) Apply gear oil to the valve seat.
(c) Install the valve seat.


HM0378

(d) Apply gear oil to the ball.
(e) Install the ball.

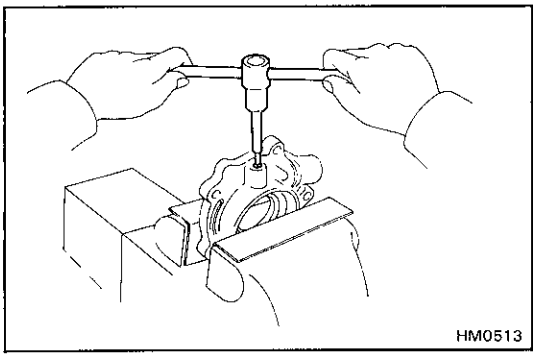

HM0533

(f) Install the spring.


HM0476

(g) Using a hexagon wrench, install and torque the screw plug.

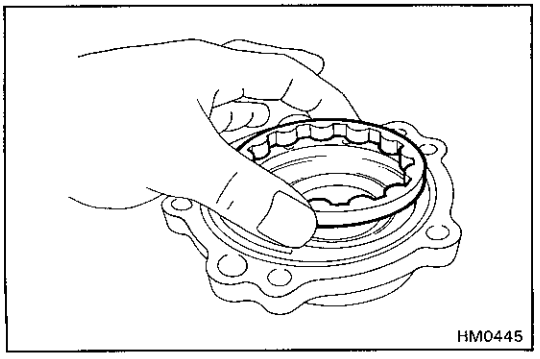
Torque: 18 N·m (185 kgf·cm, 13 ft·lbf)


HM0513

3. INSTALL TAPER PLUG

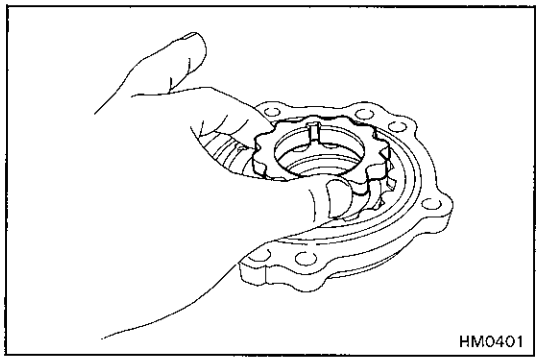
Install and torque the taper plug.

Touque: 12 N·m (120 kgf·cm, 9 ft·lbf)


HM0445

4. INSTALL OIL PUMP DRIVEN ROTOR

(a) Apply gear oil to the driven rotor.
(b) Install the oil pump driven rotor.



5. INSTALL OIL PUMP DRIVE ROTOR

(a) Apply gear oil to the drive rotor.

(b) Install the oil pump drive rotor.

6. INSTALL NEW O-RING