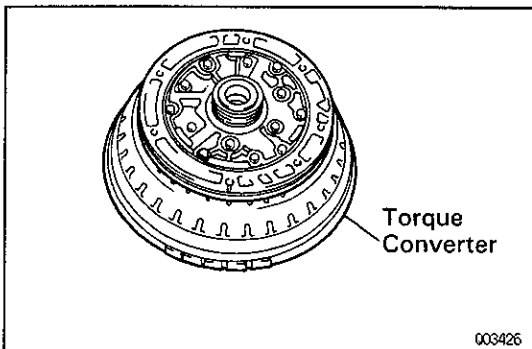
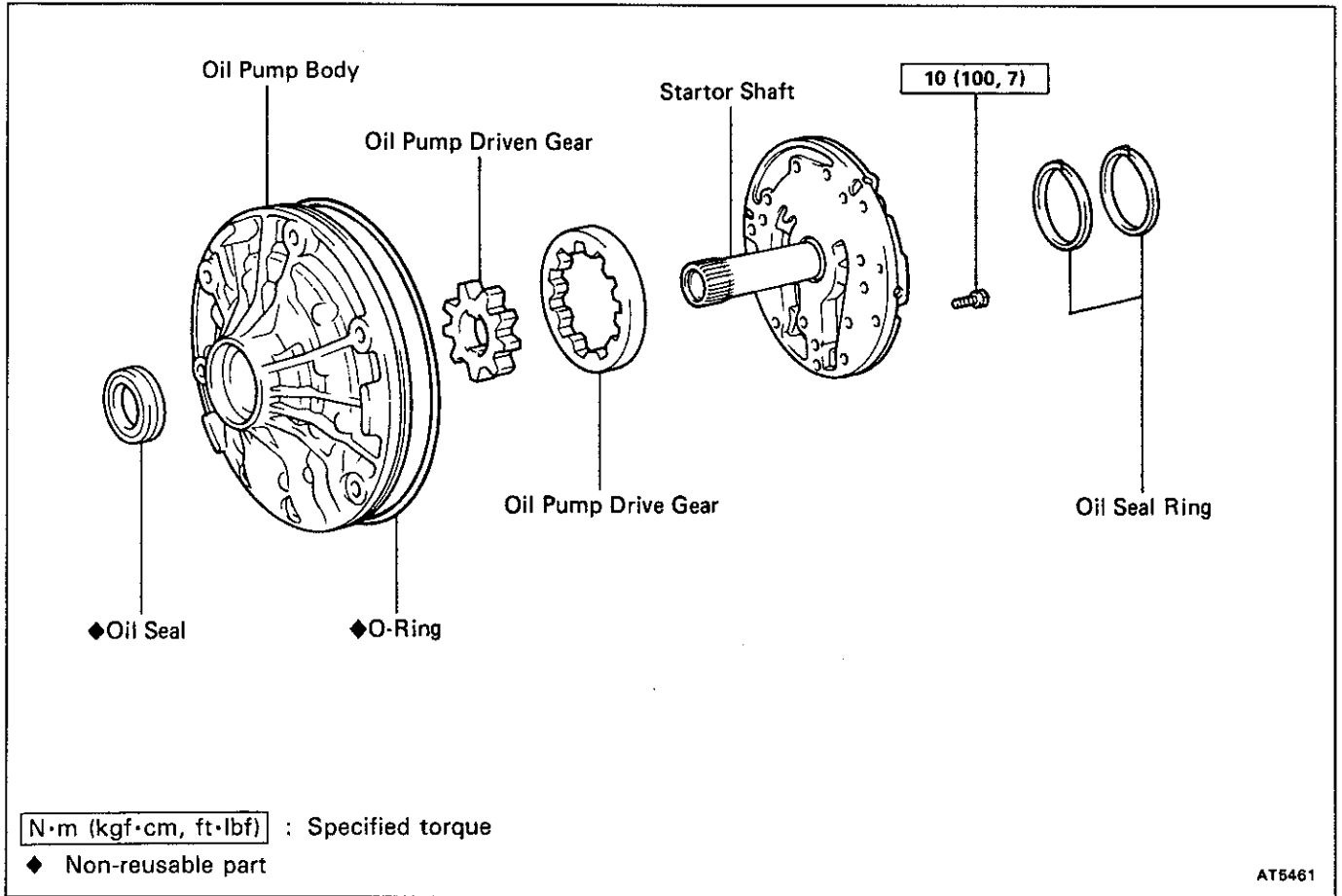


# OIL PUMP COMPONENTS

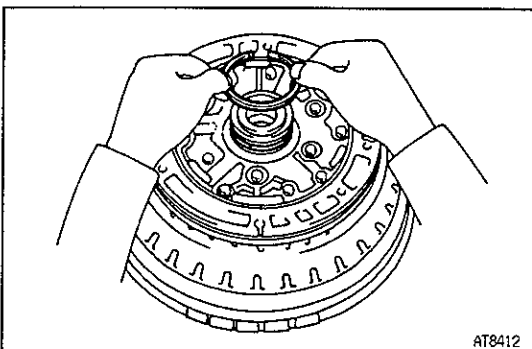
AT00E-02



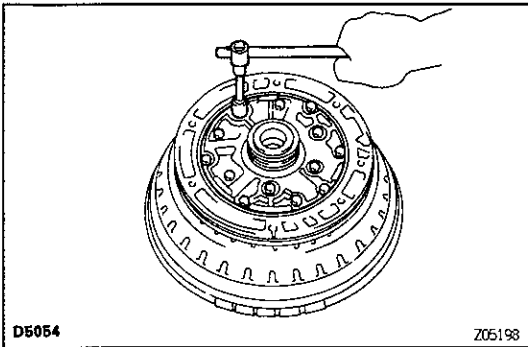
## OIL PUMP DISASSEMBLY

AT00F-03

- 1. USE TORQUE CONVERTER AS WORK STAND**  
Place the oil pump body on the torque converter.

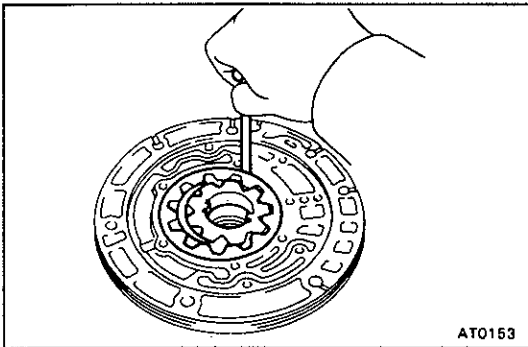


- 2. REMOVE OIL SEAL RINGS**  
Remove the 2 oil seal rings.



**3. REMOVE STATOR SHAFT**

- (a) Remove the 13 bolts, and then remove the stator shaft from the oil pump body.
- (b) Remove the oil pump body from the torque converter.

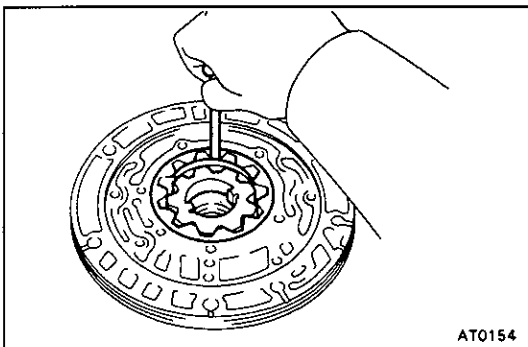


**4. CHECK BODY CLEARANCE OF DRIVEN GEAR**

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

- Standard body clearance:**  
0.07–0.15 mm (0.0028–0.0059 in.)
- Maximum body clearance:**  
0.3 mm (0.012 in.)

If the body clearance is greater than the maximum, replace the drive gear, driven gear or pump body.

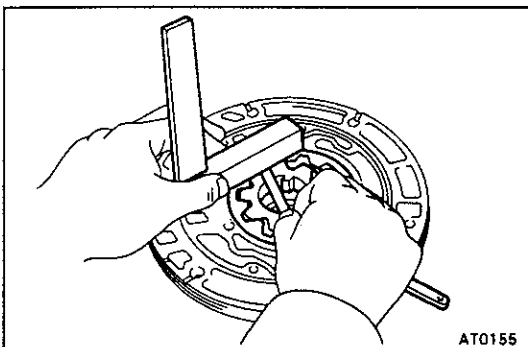


**5. CHECK TIP CLEARANCE OF DRIVEN GEAR**

Measure between the driven gear teeth and the crescent-shaped part of the pump body.

- Standard tip clearance:**  
0.11–0.14 mm (0.0043–0.0055 in.)
- Maximum tip clearance:**  
0.3 mm (0.012 in.)

If the tip clearance is greater than the maximum, replace the drive gear, driven gear or pump body.

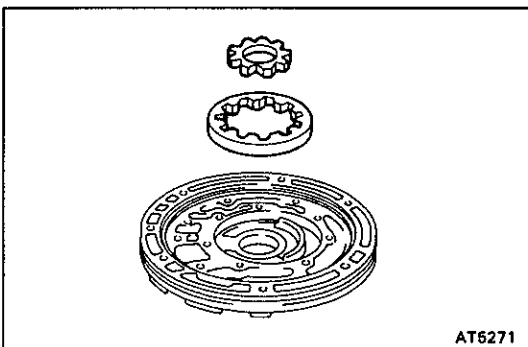


**6. CHECK SIDE CLEARANCE OF BOTH GEARS**

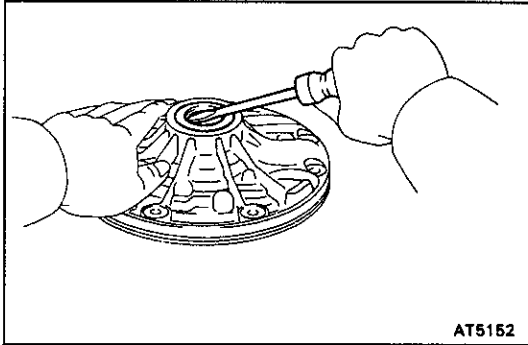
Using a steel straight edge and a feeler gauge, measure the side clearance of both gears.

- Standard side clearance:**  
0.02–0.05 mm (0.0008–0.0020 in.)
- Maximum side clearance:**  
0.1 mm (0.004 in.)

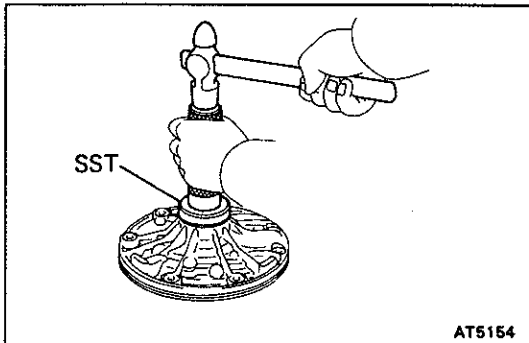
If the side clearance is greater than the maximum, replace the drive gear, driven gear or pump body.



**7. REMOVE OIL PUMP DRIVE GEAR AND DRIVEN GEAR**

**8. REMOVE OIL SEAL**

- (a) Pry off the oil seal with a screwdriver.

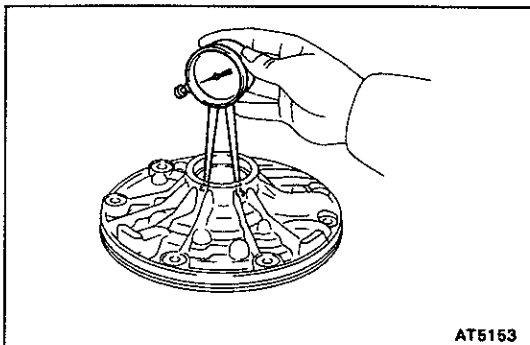


- (b) Using SST, install a new oil seal.

The oil seal end should be flush with the outer edge of the pump body.

SST 09350-30020 (09351-32140)

- (c) Coat the oil seal lip with MP grease.

**OIL PUMP BUSHING CHECK**

AT00G-02

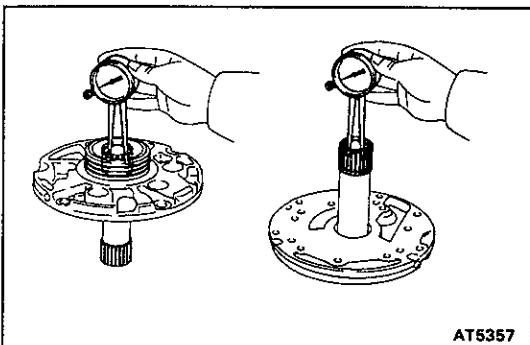
**1. CHECK OIL PUMP BODY BUSHING**

Using a dial indicator, measure the inside diameter of the oil pump body bushing.

**Maximum inside diameter:**

**38.19 mm (1.5035 in.)**

If the inside diameter is greater than the maximum, replace the oil pump body.

**2. CHECK STATOR SHAFT BUSHING**

Using a dial indicator, measure the inside diameter of the stator shaft bushing.

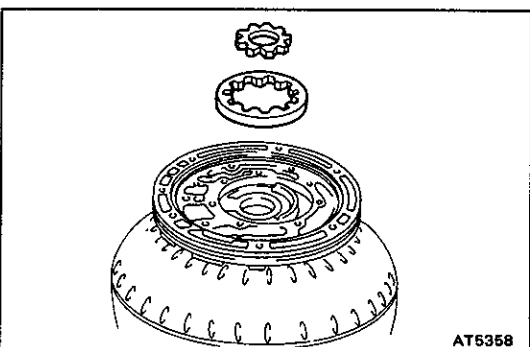
**Maximum inside diameter(Front):**

**21.58 mm (0.8496 in.)**

**Maximum inside diameter(Rear):**

**27.08 mm (1.0661 in.)**

If the inside diameter is greater than maximum, replace the stator shaft.

**OIL PUMP ASSEMBLY**

AT00H-03

**1. INSTALL DRIVEN GEAR AND DRIVE GEAR TO OIL PUMP BODY**

- (a) Place the oil pump body on the torque converter.
- (b) Coat the driven gear and drive gear with ATF.
- (c) Install the driven gear and drive gear.