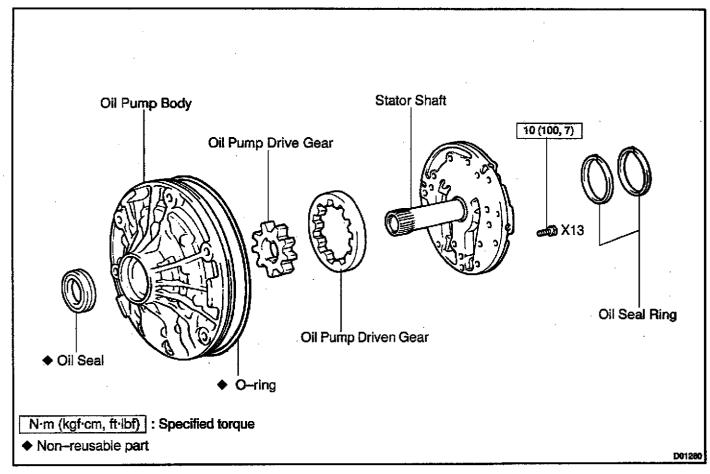
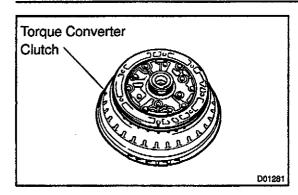
OIL PUMP COMPONENTS

TD46-01



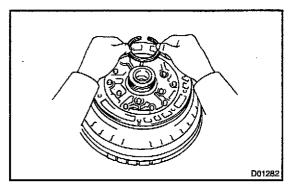
AT04C-01



DISASSEMBLY

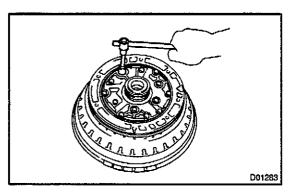
1. USE TORQUE CONVERTER CLUTCH AS WORK STAND

Place the oil pump body on the torque converter clutch.



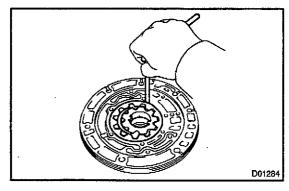
2. REMOVE OIL SEAL RING

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 clutch.



4. CHECK BODY CLEARANCE OF DRIVEN GEAR

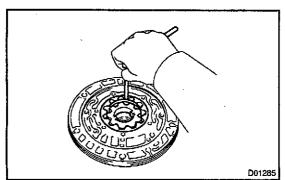
Push the driven gear to one side of the body. Using a feeler gauge, measure the clearance.

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

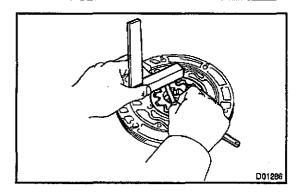
Using a feeler gauge, measure the clearance between the driven gear teeth and the crescent-shaped part of the pump body.

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

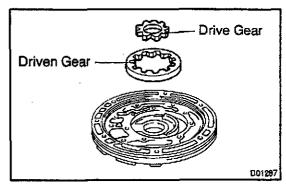
Using a steel straight edge and feeler gauge, measure the side clearance of both gears.

Standard side clearance:

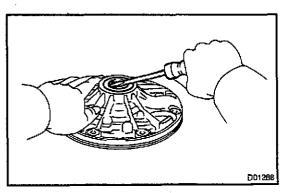
0.02 - 0.04 mm (0.0008 - 0.0016 in.)

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.



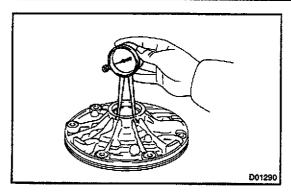
7. REMOVE OIL PUMP DRIVE GEAR AND DRIVEN GEAR



8. REMOVE OIL SEAL

Pry off the oil seal with a screwdriver.



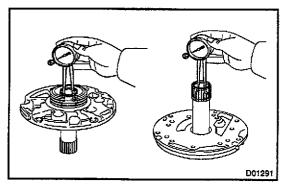


INSPECTION

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

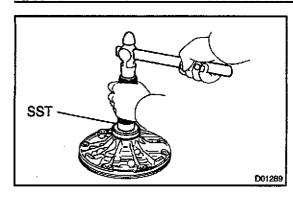
Using a dial indicator, measure the inside diameter of the stator shaft bushing.

Maximum inside diameter:

Front side: 21.58 mm (0.8496 in.) Rear side: 27.08 mm (1.0661 in.)

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

AT04E-01



REASSEMBLY

1. INSTALL OIL SEAL

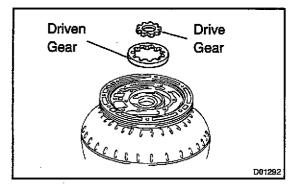
(a) Using SST, install a new oil seal.

HINT:

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

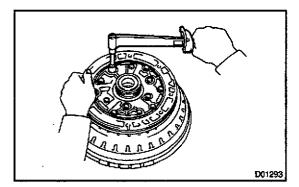
SST 09350-30020 (09351-32140)

(b) Coat the oil seal lip with MP grease.



2. INSTALL DRIVEN GEAR AND DRIVE GEAR TO OIL PUMP BODY

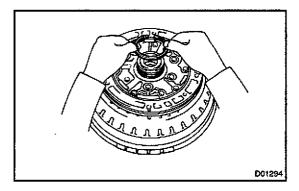
- (a) Place the oil pump body on the torque converter clutch.
- (b) Coat the driven gear and drive gear with ATF.
- (c) Install the driven gear and drive gear.



3. INSTALL STATOR SHAFT TO OIL PUMP BODY

- (a) Align the stator shaft with each bolt hole.
- (b) Install the 13 bolts.

Torque: 10 N·m (100 kgf·cm, 7 ft·lbf)



4. INSTALL OIL SEAL RINGS

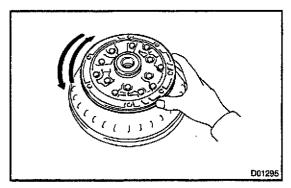
- (a) Coat the 2 oil seal rings with ATF.
- (b) Install the 2 oil seal rings to the stator shaft groove, then snug them down by squeezing their ends together.

NOTICE:

Do not spread the ring ends too much.

HINT:

After installing the oil seal rings, check that they rotate smoothly.



5. CHECK OIL PUMP DRIVE GEAR ROTATION

Make sure the drive gear rotates smoothly.