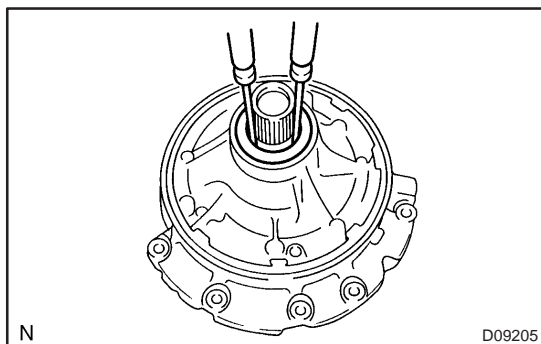


OIL PUMP ASSY (U241E) OVERHAUL

4006P-01

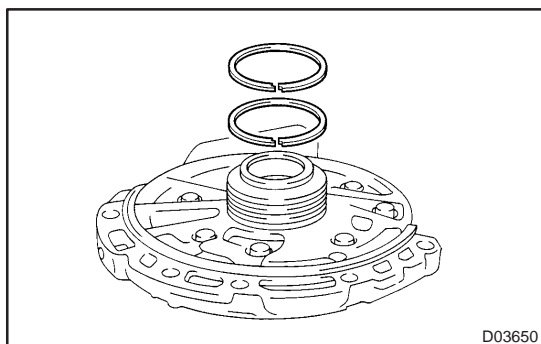


1. INSPECT OIL PUMP ASSY

- (a) Turn the drive gear with 2 screwdrivers and make sure it rotates smoothly.

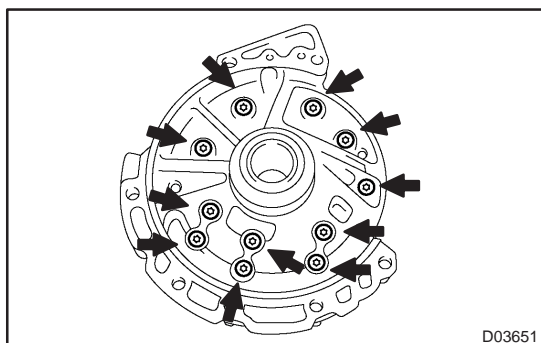
NOTICE:

Be careful not to damage the oil seal lip.



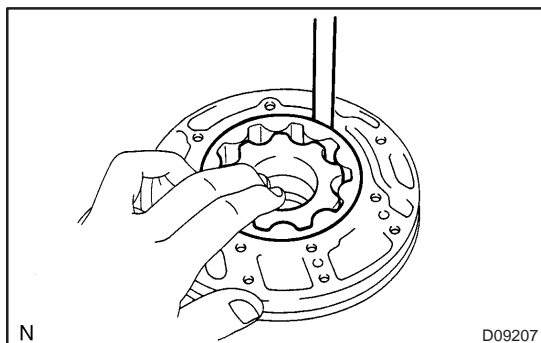
2. REMOVE CLUTCH DRUM OIL SEAL RING

- (a) Remove 2 clutch drum oil seal rings.



3. REMOVE STATOR SHAFT ASSY

- (a) Using a torx socket (T30), remove the 11 bolts and stator shaft.



4. INSPECT CLEARANCE OF OIL PUMP ASSEMBLY

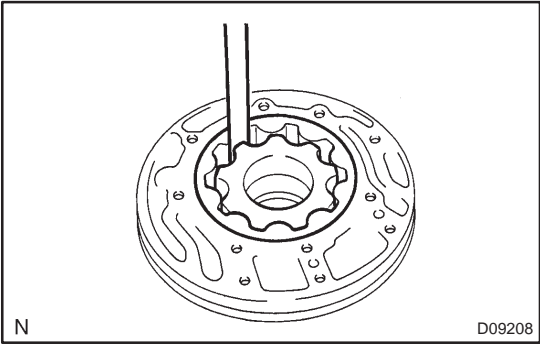
- (a) Push the driven gear to one side of the body. Using a feeler gauge, measure the clearance.

Standard body clearance:

0.10 – 0.17 mm (0.0039 – 0.0067 in.)

Maximum body clearance: 0.17 mm (0.0067 in.)

If the body clearance is greater than the maximum, replace the oil pump body sub-assy.



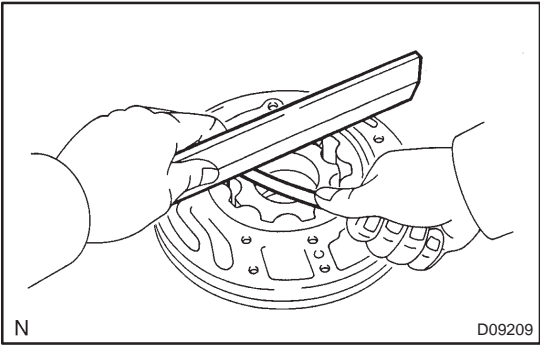
- (b) Measure the tip clearance between the driven gear teeth and drive gear teeth.

Standard tip clearance:

0.07 – 0.15 mm (0.0028 – 0.0059 in.)

Maximum tip clearance: 0.15 mm (0.0059 in.)

If the tip clearance is greater than the maximum, replace the oil pump body sub-assy.



- (c) Using a straight edge and feeler gauge, measure the side clearance of both gears.

Standard side clearance:

0.02 – 0.05 mm (0.0008 – 0.0020 in.)

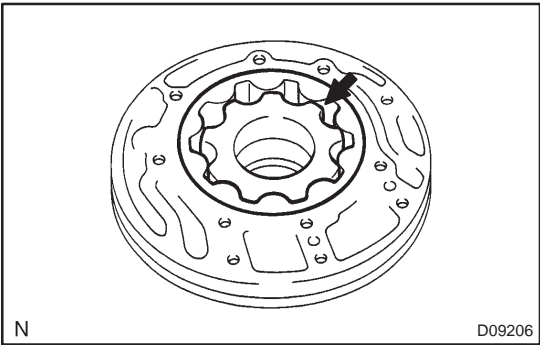
Maximum side clearance: 0.05 mm (0.0020 in.)

Drive gear thickness: mm (in.)

Mark	Thickness
1	10.690 – 10.699 (0.4209 – 0.4212)
2	10.700 – 10.709 (0.4213 – 0.4216)
3	10.710 – 10.720 (0.4217 – 0.4220)
4	10.721 – 10.730 (0.4221 – 0.4224)
5	10.731 – 10.740 (0.4225 – 0.4228)

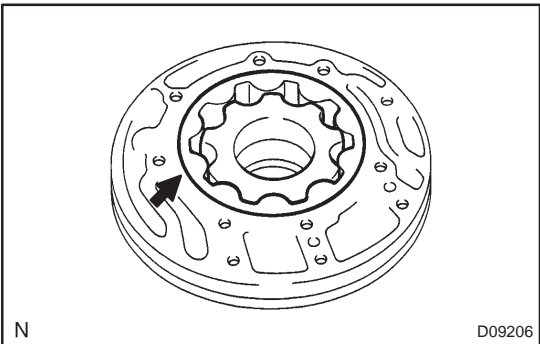
Driven gear thickness: mm (in.)

Mark	Thickness
1	10.690 – 10.699 (0.4209 – 0.4212)
2	10.700 – 10.709 (0.4213 – 0.4216)
3	10.710 – 10.720 (0.4217 – 0.4220)
4	10.721 – 10.730 (0.4221 – 0.4224)
5	10.731 – 10.740 (0.4225 – 0.4228)



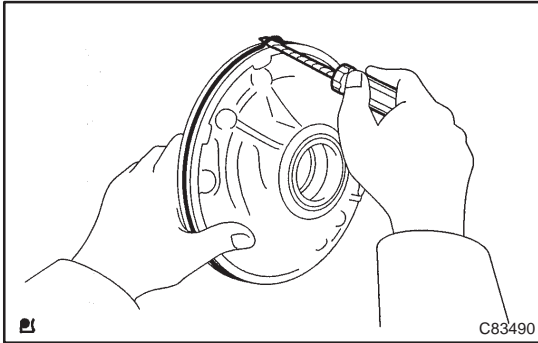
5. REMOVE FRONT OIL PUMP DRIVE GEAR

- (a) Remove the front oil pump drive gear.



6. REMOVE FRONT OIL PUMP DRIVEN GEAR

- (a) Remove the front oil pump driven gear.

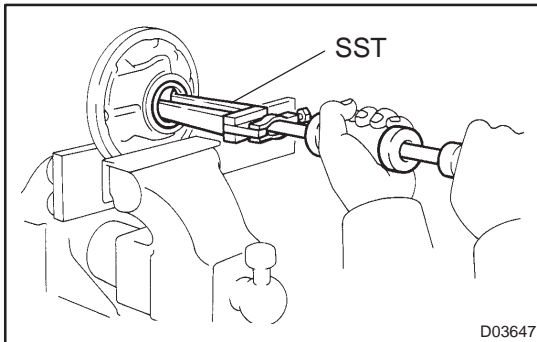


7. REMOVE FRONT OIL PUMP BODY O-RING

- (a) Using a screwdriver, remove the O-ring.

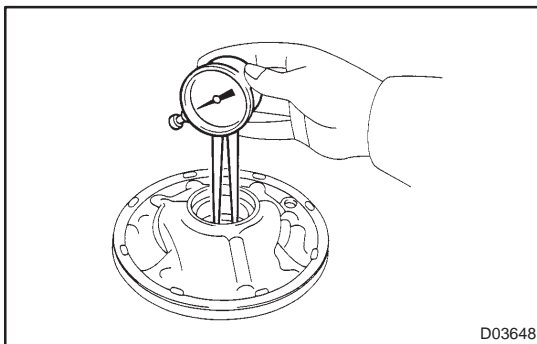
HINT:

Tape the screwdriver before use.



8. REMOVE FRONT OIL PUMP OIL SEAL

- (a) Mount oil pump in a soft jaw vise.
 (b) Using SST, remove oil seal from the oil pump body.
 SST 09308-00010



9. INSPECT FR OIL PUMP & GEAR BODY SUB-ASSY

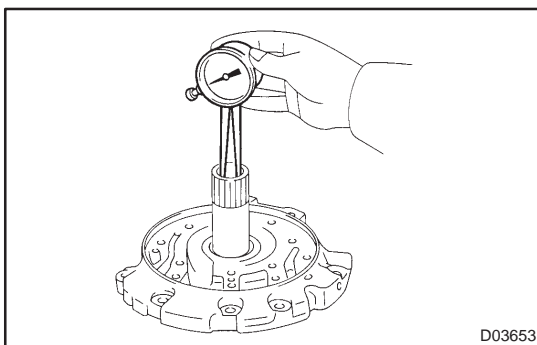
- (a) Using a dial indicator, measure the inside diameter of the oil pump body bushing.

Standard inside diameter:

38.11 – 38.14 mm (1.5005 – 1.5015 in.)

Maximum inside diameter: 38.19 mm (1.5035 in.)

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



10. INSPECT STATOR SHAFT ASSY

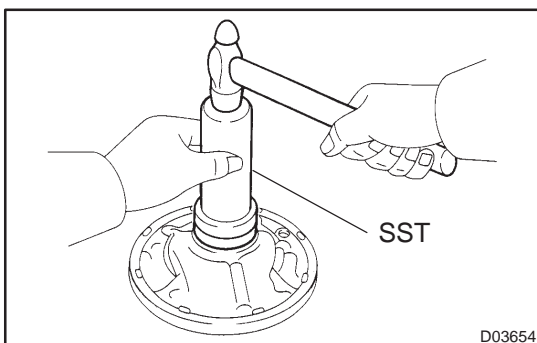
- (a) Using a dial Indicator, measure the inside diameter of the stator shaft bushings.

Standard inside diameter:

20.50 – 21.53 mm (0.8465 – 0.8475 in.)

Maximum inside diameter: 21.57 mm (0.8492 in.)

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



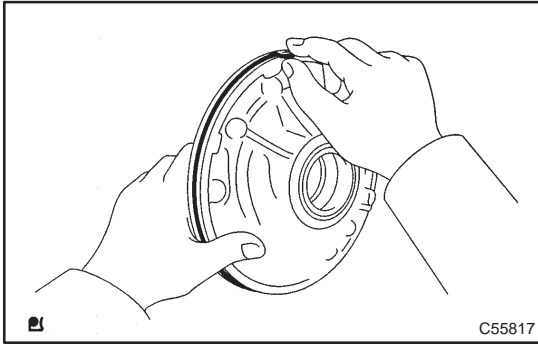
11. INSTALL FRONT OIL PUMP OIL SEAL

- (a) Using SST, install a new oil seal to the pump.
 SST 09350-32014 (09351-32140)

HINT:

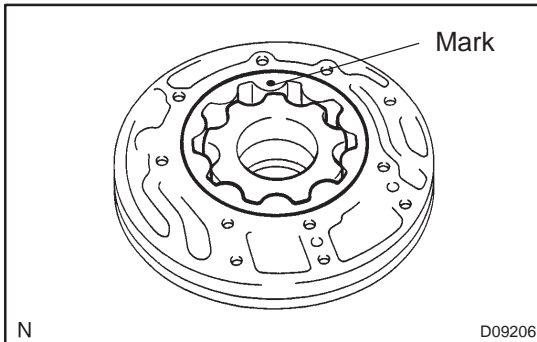
The seal end should be flush with the outer edge of the oil pump.

- (b) Coat the lip of the oil seal with petroleum jelly.



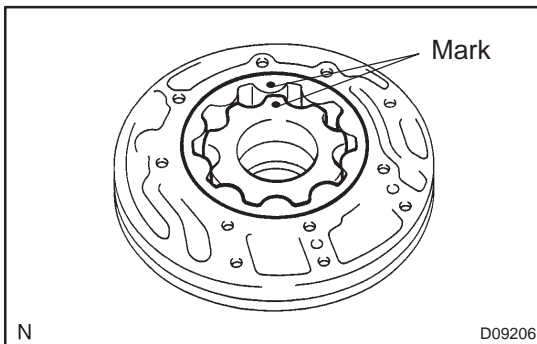
12. INSTALL FRONT OIL PUMP BODY O-RING

- (a) Coat a new O-ring with ATF, install it to the oil pump body.



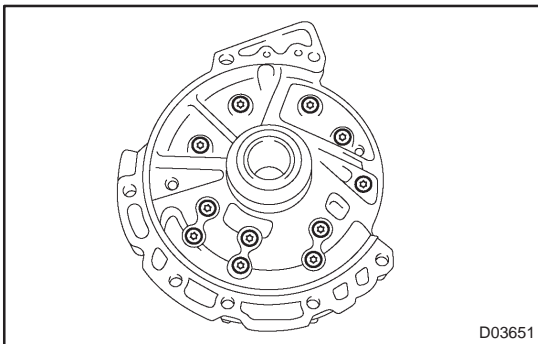
13. INSTALL FRONT OIL PUMP DRIVEN GEAR

- (a) Coat the front oil pump driven gear with ATF, install it to the oil pump body with the marked side up.



14. INSTALL FRONT OIL PUMP DRIVE GEAR

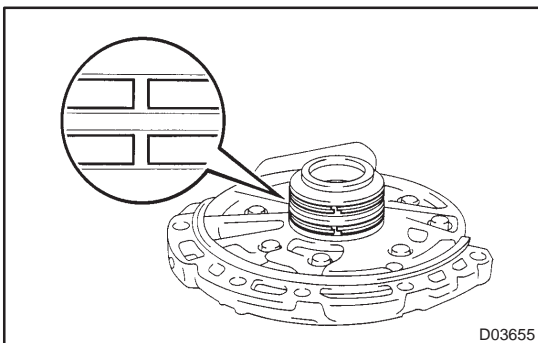
- (a) Coat the front oil pump drive gear with ATF, install it to the oil pump body with the marked side up.



15. INSTALL STATOR SHAFT ASSY

- (a) Set the stator shaft by aligning each bolt hole.
 (b) Using a torx socket T30, install the 11 bolts.

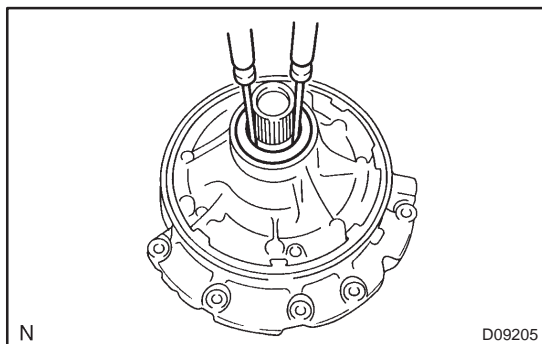
Torque: 9.8 N·m (100 kgf·cm, 87 in·lbf)



16. INSTALL CLUTCH DRUM OIL SEAL RING

NOTICE:

Do not expand the ring ends excessively.

**17. INSPECT OIL PUMP ASSY**

- (a) Turn the drive gear with 2 screwdrivers and make sure it rotates smoothly.

NOTICE:

Be careful not to damage the oil seal lip.