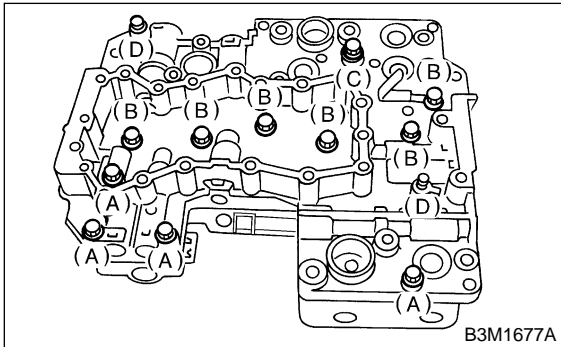


16. Oil Pump Assembly

7) Tighten bolts.

Tightening torque:

8 ± 1 N-m (0.8 ± 0.1 kg-m, 5.8 ± 0.7 ft-lb)

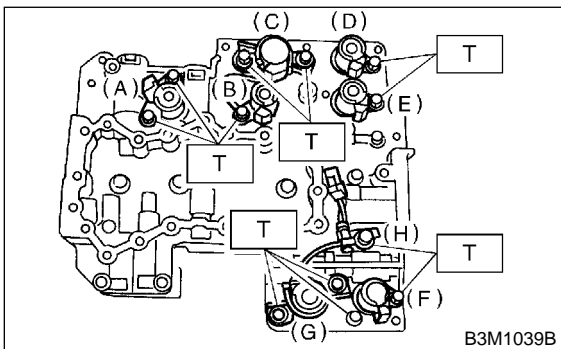


- (A) Short bolts
- (B) Middle bolts
- (C) Long bolt
- (D) Reamer bolts

8) Install the sensor, solenoids and duty solenoid S.

Tightening torque:

8 ± 1 N-m (0.8 ± 0.1 kg-m, 5.8 ± 0.7 ft-lb)



- (A) Lock-up duty solenoid (Blue)
- (B) Low clutch timing solenoid (Gray)
- (C) Line pressure duty solenoid (Red)
- (D) Shift solenoid 1 (Yellow)
- (E) Shift solenoid 2 (Green)
- (F) 2-4 brake timing solenoid (Black)
- (G) 2-4 brake duty solenoid D (Red)
- (H) ATF temperature sensor

9) Install oil strainer to lower valve body.

Tightening torque:

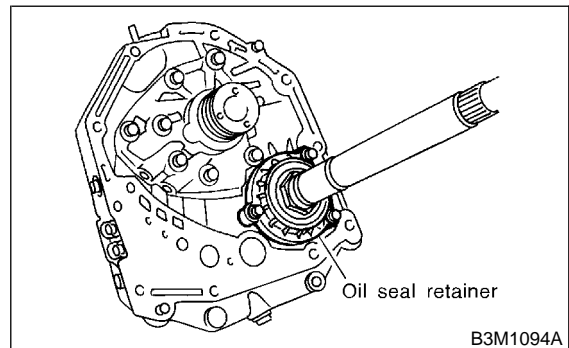
8 ± 1 N-m (0.8 ± 0.1 kg-m, 5.8 ± 0.7 ft-lb)

16. Oil Pump Assembly

A: DISASSEMBLY

1) Remove the oil seal retainer.

Also remove the O-ring and oil seal (air breather).



2) Remove O-rings from oil pump housing.

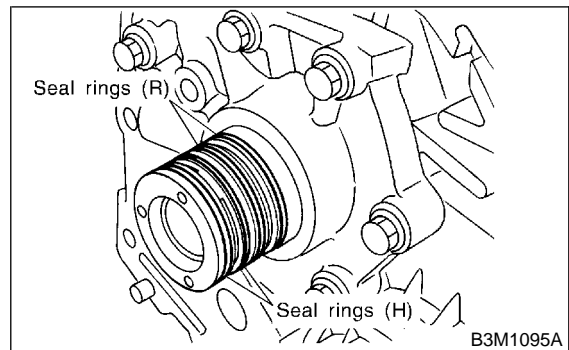
CAUTION:

Be careful not to damage O-ring.

3) Remove four seal rings.

CAUTION:

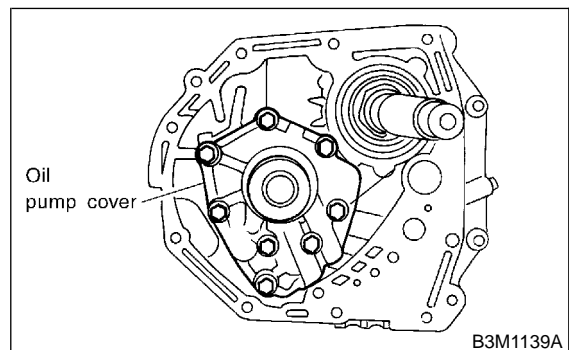
Be careful not to damage O-ring.



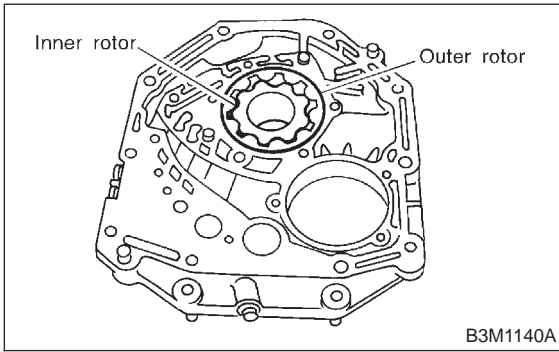
4) Remove the oil pump cover.

NOTE:

Lightly tap the end of the stator shaft to remove the cover.



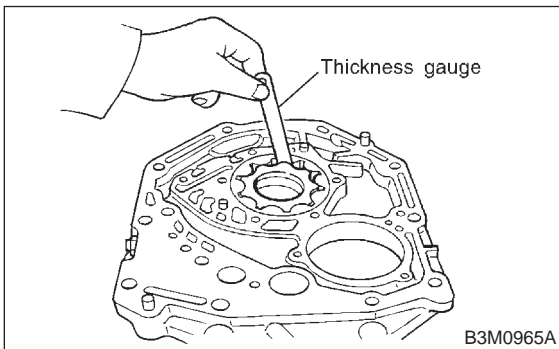
5) Remove the inner and outer rotor.



B: INSPECTION

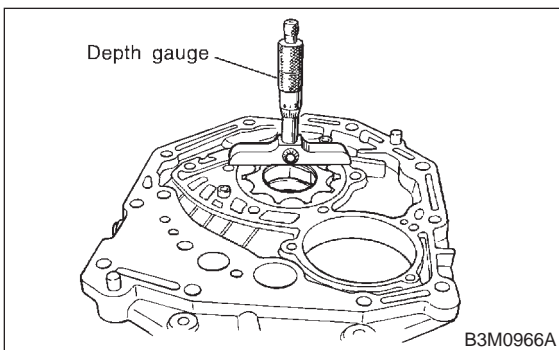
- 1) Check seal ring and O-ring oil seal for breaks or damage.
- 2) Check other parts for dents or abnormalities.
- 3) Selection of oil pump rotor assembly
 - (1) Tip clearance
Install inner rotor and outer rotor to oil pump. With rotor gears facing each other, measure crest-to-crest clearance.

Tip clearance:
0.02 — 0.15 mm (0.0008 — 0.0059 in)



- (2) Side clearance
Set a depth gauge to oil pump housing, then measure oil pump housing-to-rotor clearances.

Side clearance:
0.02 — 0.04 mm (0.0008 — 0.0016 in)

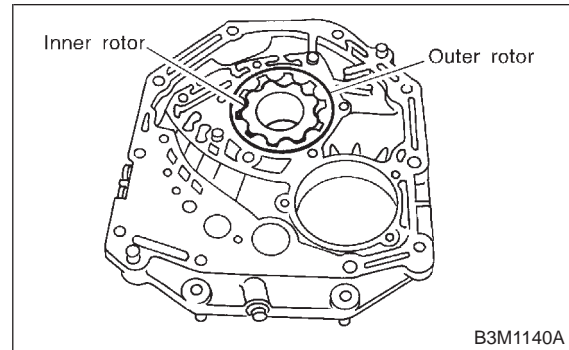


(3) If depth and/or side clearances are outside specifications, replace rotor assembly.

Oil pump rotor assembly	
Part No.	Thickness mm (in)
15008AA060	11.37 — 11.38 (0.4476 — 0.4480)
15008AA070	11.38 — 11.39 (0.4480 — 0.4484)
15008AA080	11.39 — 11.40 (0.4484 — 0.4488)

C: ASSEMBLY

1) Install oil pump rotor assembly to oil pump housing.



2) Install the oil pump cover.

Tightening torque:
25±2 N·m (2.5±0.2 kg·m, 18.1±1.4 ft·lb)

NOTE:

- Align both pivots with the pivot holes of the cover, and install the cover being careful not to apply undue force to the pivots.
- After assembling, turn the oil pump shaft to check for smooth rotation of the rotor.

