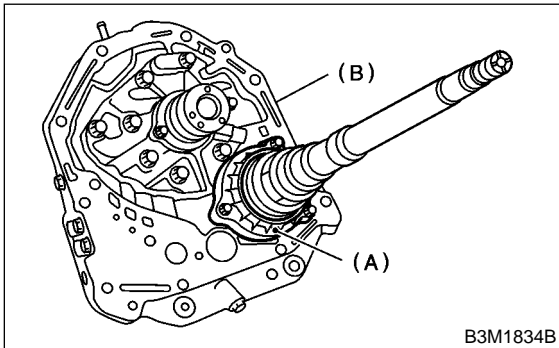


## 16. Oil Pump Assembly

### A: DISASSEMBLY

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



- (A) Oil seal retainer
- (B) Oil seal housing

- 2) Remove O-rings from oil pump housing.

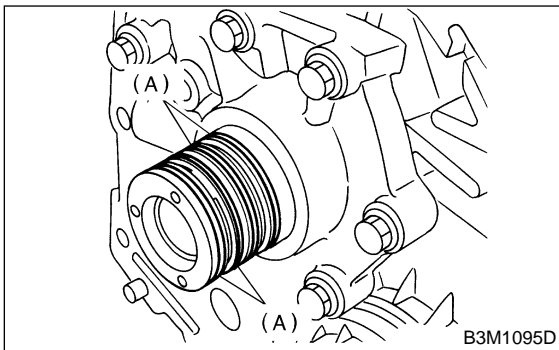
**CAUTION:**

Be careful not to damage O-ring.

- 3) Remove the four seal rings.

**CAUTION:**

Be careful not to damage seal ring.

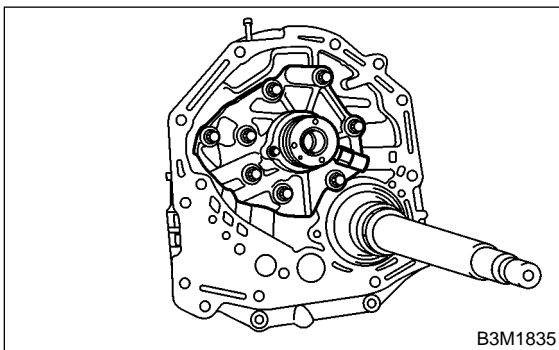


- (A) Seal rings

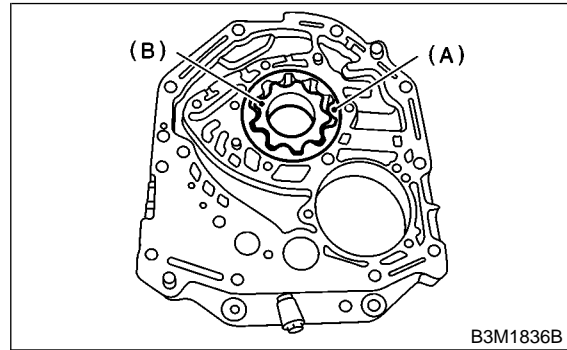
- 4) Remove the oil pump cover.

**NOTE:**

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



- 5) Remove the inner and outer rotor.



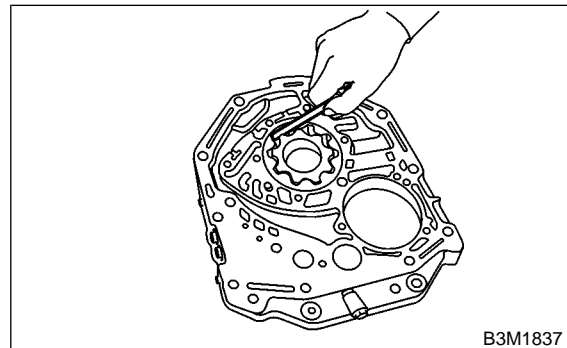
- (A) Outer rotor
- (B) Inner rotor

### 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)**

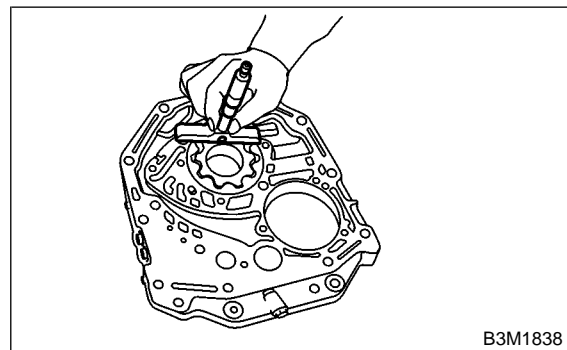


- (2) Side clearance

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)**



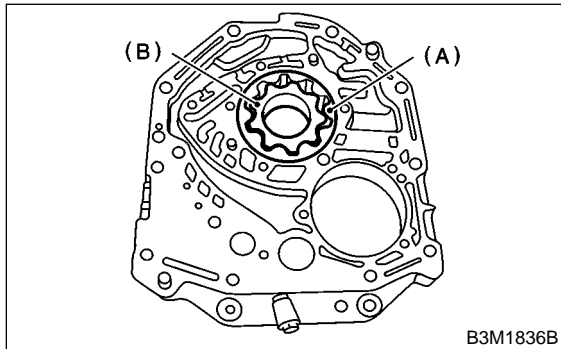
16. Oil Pump Assembly

(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	11.37 — 11.38 (0.4476 — 0.4480)

**C: ASSEMBLY**

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



- (A) Outer rotor
- (B) Inner rotor

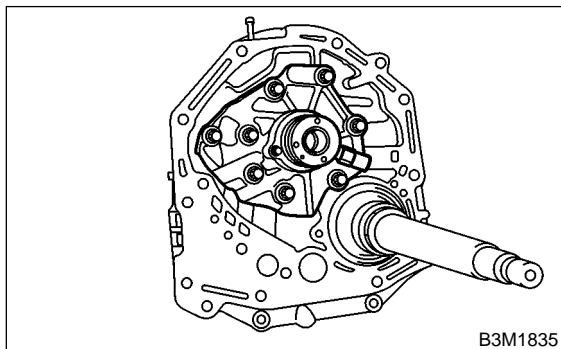
2) Install the oil pump cover.

**Tightening torque:**

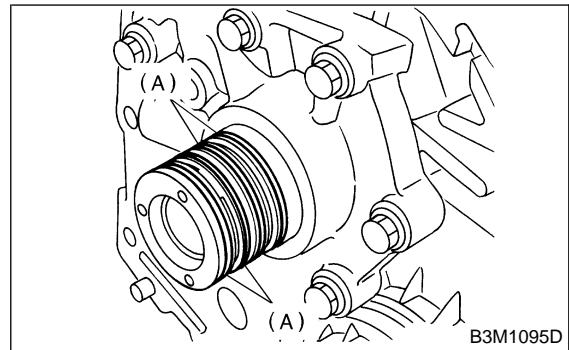
**25±2 N·m (2.5±0.2 kg·m, 18.1±1.4 ft·lb)**

**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.



- Install the oil seal retainer and seal rings. After adjusting the drive pinion backlash and tooth contact.



- (A) Seal rings