

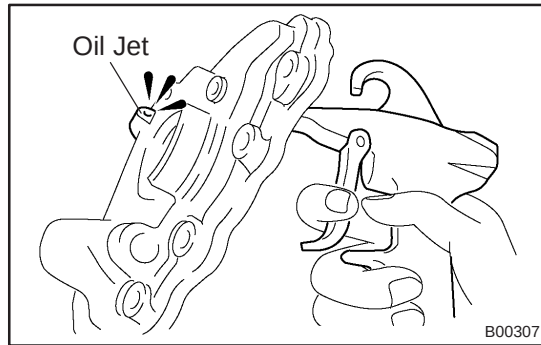
OVERHAUL

1. REMOVE OIL PUMP DRIVE AND DRIVEN ROTORS

- (a) Remove the 3 screws and oil pump cover.
- (b) Remove the oil pump drive and driven rotors from the oil pump.

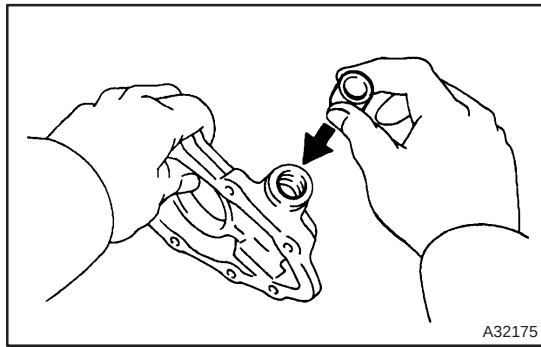
2. REMOVE VALVE, OIL PUMP RELIEF

- (a) Remove the plug, spring and valve from the oil pump.



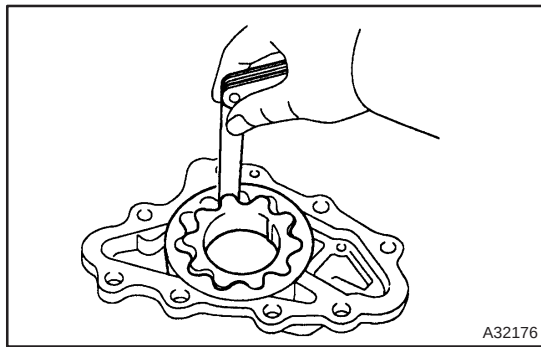
3. INSPECT OIL JET

- (a) Check the oil jet for damage or clogging.



4. INSPECT OIL PUMP RELIEF VALVE

- (a) Coat the oil pump relief valve with engine oil, and check that it falls smoothly into the valve hole by its own weight.



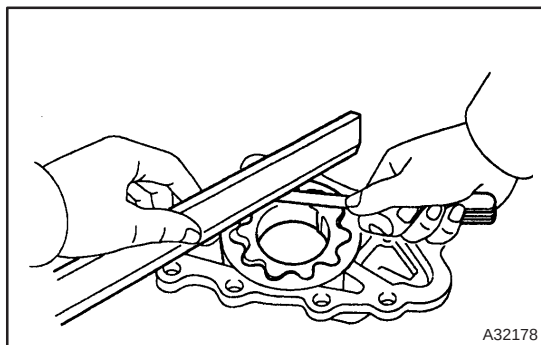
5. INSPECT ROTOR TIP CLEARANCE

- (a) Using a feeler gauge, measure the clearance between the drive and driven rotor tips.

Standard tip clearance:

0.040 – 0.160 mm (0.0016 – 0.0063 in.)

Maximum tip clearance: 0.160 mm (0.0063 in.)



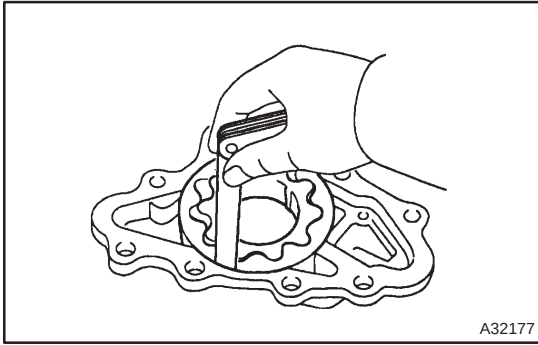
6. INSPECT ROTOR SIDE CLEARANCE

- (a) Using a feeler gauge and precision straight edge, measure the clearance between the 2 rotors and precision straight edge.

Standard side clearance:

0.025 – 0.071 mm (0.0010 – 0.0028 in.)

Maximum side clearance: 0.071 mm (0.0028 in.)



7. INSPECT BODY CLEARANCE

- (a) Using a feeler gauge, measure the clearance between the driven rotor and oil pump body.

Standard body clearance:

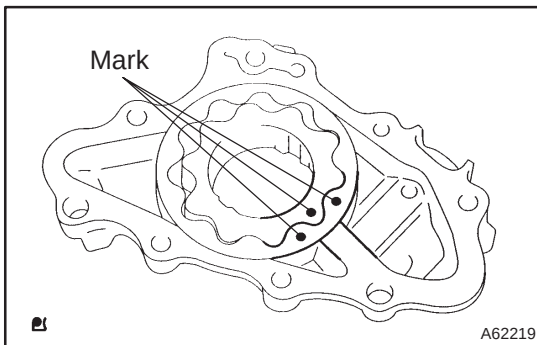
0.260 – 0.325 mm (0.0102 – 0.0128 in.)

Maximum body clearance: 0.325 mm (0.0128 in.)

8. INSTALL OIL PUMP RELIEF VALVE

- (a) Coat the oil pump relief valve with engine oil, and insert oil pump relief valve and spring to the valve hole.
- (b) Install the oil pump relief valve plug.

Torque: 37 N·m (377 kgf·cm, 27 ft·lbf)



9. INSTALL OIL PUMP DRIVE AND DRIVEN ROTORS

- (a) Coat the oil pump drive and driven rotors with engine oil, and place it into the oil pump with marks facing the oil pump cover side.
- (b) Install the oil pump cover with the 3 screw.

Torque: 10 N·m (102 kgf·cm, 7 ft·lbf)