

INSTALLATION

1. **INSTALL TIMING CHAIN AND CAMSHAFT TIMING GEAR** (See page [EM-17](#))
2. **INSTALL OIL PUMP (TIMING CHAIN COVER)** (See page [EM-17](#))

3. INSTALL OIL STRAINER

Install a new gasket and the oil strainer with the bolt and 2 nuts.

Torque: 20 N·m (200 kgf·cm, 14 ft·lbf)

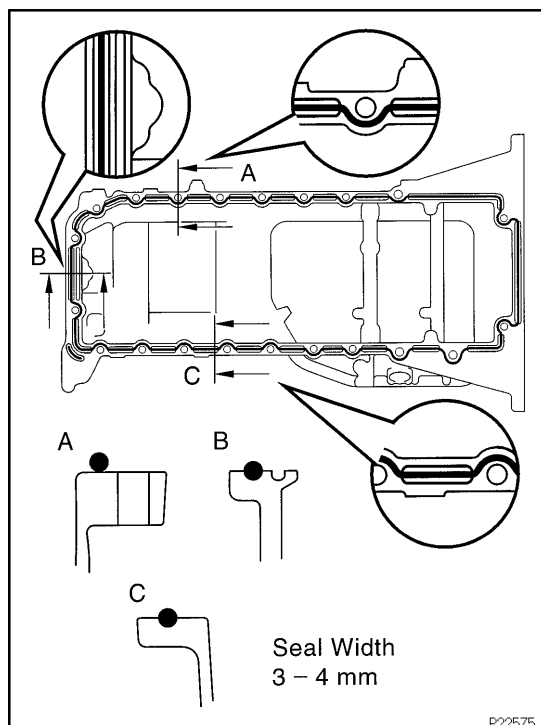
4. INSTALL OIL PAN BAFFLE PLATE

Install the baffle plate with the bolt and 7 nuts.

Torque: 9.0 N·m (90 kgf·cm, 78 in·lbf)

5. INSTALL NO. 1 OIL PAN

- (a) Remove any old packing (FIPG) material and be careful not to drop any oil on the contact surfaces of the oil pan, oil pump and cylinder block.
 - Using a razor blade and gasket scraper, remove all the old packing (FIPG) material from the gasket surfaces and sealing grooves.
 - Thoroughly clean all components to remove all the loose material.
 - Using a non-residue solvent, clean both sealing surfaces.



- (b) Apply seal packing to the No. 1 oil pan as shown in the illustration.

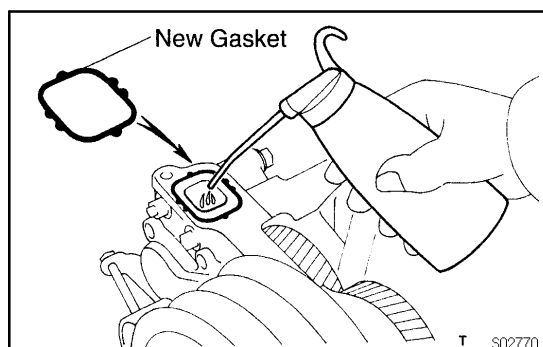
Seal packing: Part No. 08826-00080 or equivalent

- Install a nozzle that has been cut to a 3 – 4 mm (0.12 – 0.16 in.) opening.

HINT:

Avoid applying an excessive amount to the surface.

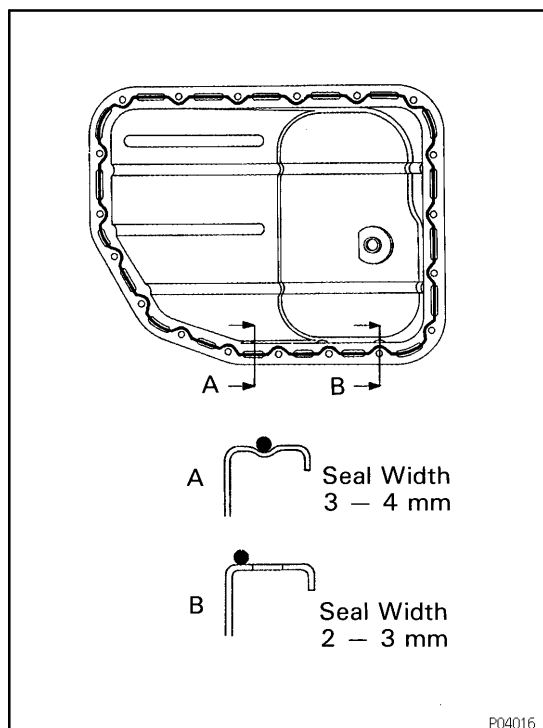
- Parts must be assembled within 5 minutes of application. Otherwise the material must be removed and reapplied.
- Immediately remove nozzle from the tube and reinstall cap.



- (c) Install a new gasket to the timing chain cover.
- (d) Pour in approximately 15 cm³ (0.9 cu in.) of engine oil into oil pump hole.
- (e) Install the No. 1 oil pan with the 21 bolts and 2 nuts.

Torque:**44 N·m (440 kgf·cm, 32 ft·lbf) for 14 mm head****20 N·m (200 kgf·cm, 14 ft·lbf) for 12 mm head****6. INSTALL NO. 2 OIL PAN**

- (a) Remove any old packing (FIPG) material and be careful not to drop any oil on the contact surface of the No. 1 oil pan.
 - Using a razor blade and gasket scraper, remove all the old packing (FIPG) material from the gasket surfaces and sealing grooves.
 - Thoroughly clean all components to remove all the loose material.
 - Using a non-residue solvent, clean both sealing surfaces.



- (b) Apply seal packing to the No. 2 oil pan as shown in the illustration.

NOTICE:**Do not use a solvent which will affect the painted surfaces.****Seal packing: Part No. 08826-00080 or equivalent**

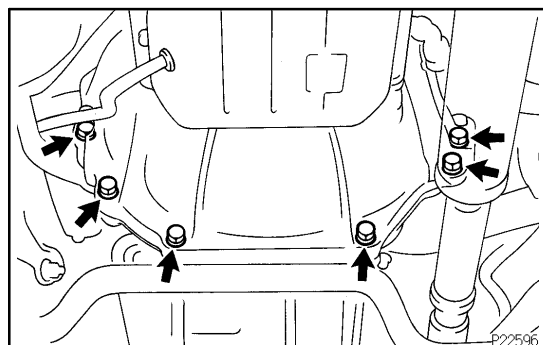
- Install a nozzle that has been cut to a 2 - 3 mm (0.08 - 0.12 in.) opening or 3 - 4 mm (0.012 - 0.016 in.) opening.

HINT:

Avoid applying an excessive amount to the surface.

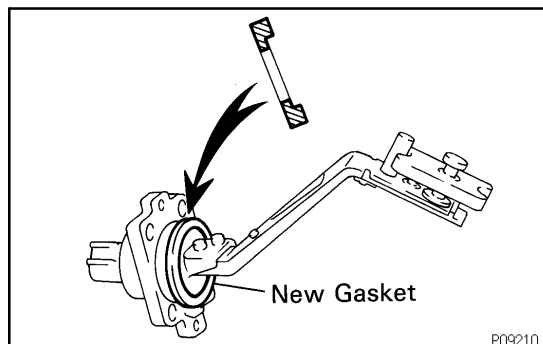
- Parts must be assembled within 5 minutes of application. Otherwise the material must be removed and reapplied.
- Immediately remove nozzle from the tube and reinstall cap.

- (c) Install the No. 2 oil pan with the 17 bolts and 2 nuts.

Torque:**7.8 N·m (80 kgf·cm, 69 in.·lbf) for bolt****8.8 N·m (90 kgf·cm, 78 in.·lbf) for nut****7. INSTALL BOLTS HOLDING NO. 1 OIL PAN TO TRANSMISSION HOUSING**

Install the 6 bolts.

Torque: 72 N·m (730 kgf·cm, 53 ft·lbf)

**8. INSTALL OIL LEVEL SENSOR**

- (a) Install a new gasket to the level sensor as shown in the illustration.
- (b) Install the level sensor with the 4 bolts.

Torque: 5.4 N·m (55 kgf·cm, 48 in.·lbf)

9. CONNECT OIL COOLER PIPE BRACKET TO NO. 1 OIL PAN**10. INSTALL CYLINDER HEAD ASSEMBLY (See page [EM-50](#))****11. INSTALL WATER PUMP (See page [CO-6](#))****12. INSTALL RADIATOR PIPE (See page [EM-70](#))****13. INSTALL A/C COMPRESSOR AND BRACKET (See page [EM-70](#))****14. INSTALL RADIATOR (See page [CO-15](#))****15. INSTALL ENGINE UNDER COVER****16. FILL WITH ENGINE OIL****17. START ENGINE AND CHECK FOR LEAKS**