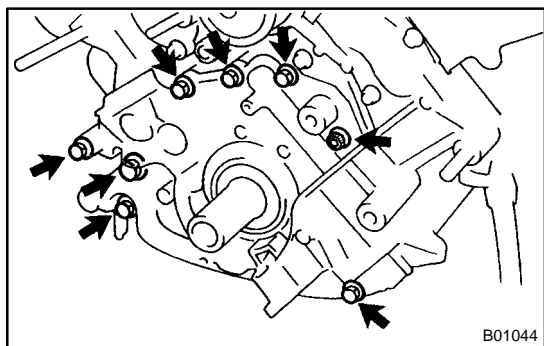


## REPLACEMENT

1. REMOVE ENGINE ASSY (See page 14-21 )
2. REMOVE TIMING BELT (See page 14-107 )
3. REMOVE CRANKSHAFT TIMING PULLEY (See page 14-148 )
4. REMOVE CRANK POSITION SENSOR (See page 18-5 )
5. REMOVE OIL COOLER ASSY (See page 17-12 )
6. REMOVE OIL PAN SUB-ASSY NO.2 (See page 14-31 )
7. REMOVE OIL STRAINER SUB-ASSY (See page 14-31 )
8. REMOVE OIL PAN BAFFLE PLATE (See page 14-31 )
9. REMOVE OIL PAN SUB-ASSY (See page 14-31 )

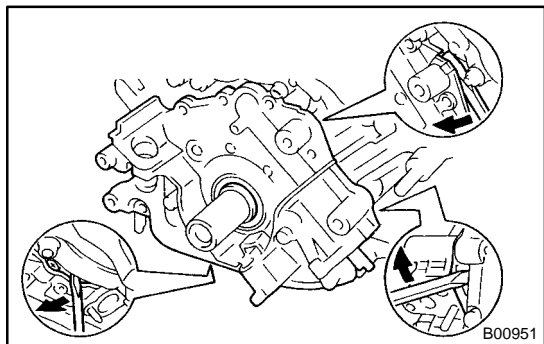


### 10. REMOVE OIL PUMP ASSY

- (a) Remove the 8 bolts.

HINT:

Use a 6 mm hexagon wrench for the hexagon head bolt.



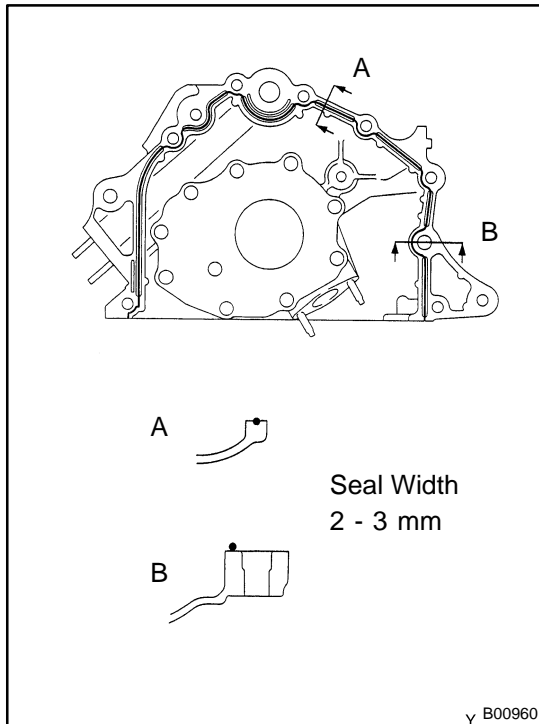
- (b) Using a screwdriver, remove the oil pump by prying the portions between the oil pump and cylinder block.

**NOTICE:**

**Be careful not to damage the contact surfaces of the cylinder block and oil pump.**

- (c) Remove the O-ring from the cylinder block.

### 11. INSTALL OIL PUMP SEAL (See page 14-148 )



## 12. INSTALL OIL PUMP ASSY

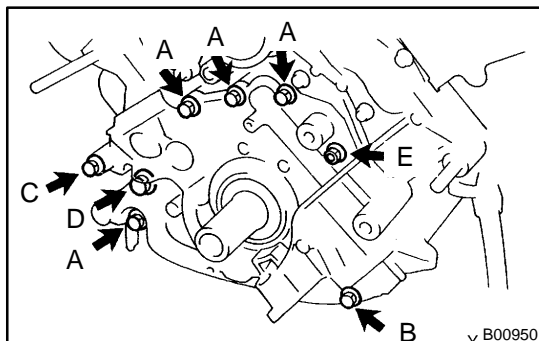
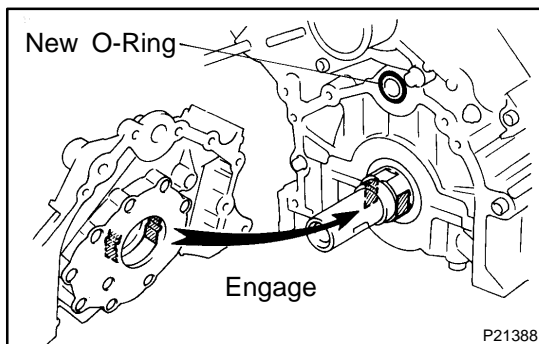
- (a) Remove any old packing (FIPG) material and be careful not to drop any oil on the contact surfaces of the oil pump and cylinder block.
  - (1) Using a razor blade and gasket scraper, remove all the old packing (FIPG) material from the gasket surfaces and sealing groove.
  - (2) Thoroughly clean all components to remove all the loose material.
  - (3) Using a non-residue solvent, clean both sealing surfaces.
- (b) Install the oil pump seal (See page 14-31 ).
- (c) Apply seal packing to the oil pump as shown in the illustration.

**Seal packing: Part No. 08826-00080 or equivalent**

### NOTICE:

**Avoid applying an excessive amount to the surface. Be particularly careful near oil passage.**

- (1) Install a nozzle that has been cut to a 2 - 3 mm (0.08 - 0.12 in.) opening.
- (2) Parts must be assembled within 5 minutes of application. Otherwise the material must be removed and reapplied.
- (3) Immediately remove nozzle from the tube and reinstall cap.
- (d) Install a new O-ring to the cylinder block.
- (e) Engage the spline teeth of the oil pump drive gear with the large teeth of the crankshaft, and slide the oil pump on the crankshaft.



- (f) Install the oil pump with the 8 bolts. Uniformly tighten the bolts in several passes.

### Torque:

**16 N·m (158 kgf·cm, 11 ft·lbf)**

**for 12 mm head and 6 mm hexagon head**

**31 N·m (311 kgf·cm, 23 ft·lbf) for 14 mm**

13. INSTALL OIL PAN SUB-ASSY (See page [14-31](#) )
14. INSTALL OIL PAN BAFFLE PLATE (See page [14-31](#) )
15. INSTALL OIL STRAINER SUB-ASSY (See page [14-31](#) )
16. INSTALL OIL PAN SUB-ASSY NO.2 (See page [14-31](#) )
17. INSTALL OIL COOLER ASSY (See page [17-12](#) )
18. INSTALL CRANK POSITION SENSOR (See page [18-5](#) )
19. INSTALL CRANKSHAFT TIMING PULLEY (See page [14-148](#) )
20. INSTALL TIMING BELT (See page [14-107](#) )
21. INSTALL ENGINE ASSY (See page [14-21](#) )