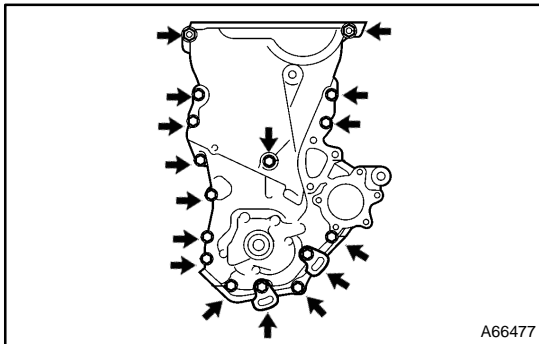


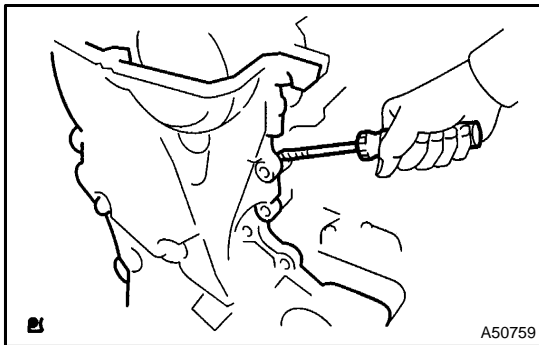
REPLACEMENT

1. REMOVE FRONT WHEEL RH
2. REMOVE CYLINDER HEAD COVER NO.2 (See page 14-7)
3. REMOVE IGNITION COIL NO.1 (See page 14-7)
4. DISCONNECT VENTILATION HOSE (See page 14-7)
5. DISCONNECT VENTILATION HOSE NO.2 (See page 14-7)
6. REMOVE CYLINDER HEAD COVER SUB-ASSY (See page 14-7)
7. REMOVE FAN AND GENERATOR V BELT (See page 14-5)
8. REMOVE GENERATOR ASSY (See page 19-15)
9. REMOVE ENGINE UNDER COVER RH (See page 19-3)
10. DRAIN ENGINE OIL
11. DRAIN ENGINE COOLANT (See page 16-7)
12. REMOVE VANE PUMP V BELT (See page 14-5)
13. REMOVE WATER PUMP PULLEY (See page 16-10)
14. REMOVE WATER PUMP ASSY (See page 16-10)
15. REMOVE CRANKSHAFT DAMPER SUB-ASSY (See page 14-68)
SST 09213-58012 (91111-50845), 09330-00021, 09950-50013 (09951-05010, 09952-05010, 09953-05020, 09954-05021)
16. REMOVE CAMSHAFT TIMING OIL CONTROL VALVE ASSY (See page 14-68)
17. REMOVE CRANKSHAFT POSITION SENSOR (See page 18-6)
18. REMOVE ENGINE MOUNTING INSULATOR SUB-ASSY RH (See page 14-68)
19. REMOVE TRANSVERSE ENGINE ENGINE MOUNTING BRACKET (See page 14-68)



20. REMOVE OIL PUMP ASSY

- (a) Remove the 15 bolts and nut.

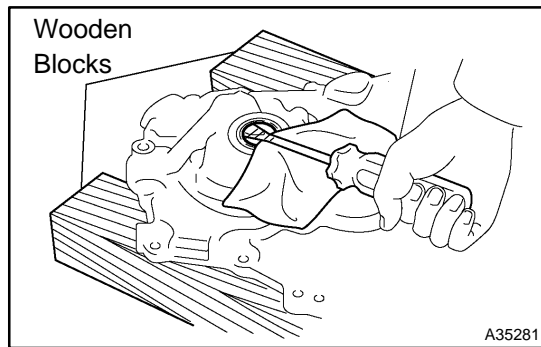


- (b) Using a screwdriver with the tip wrapped in tape, remove the oil pump by prying between the cylinder head and cylinder block.

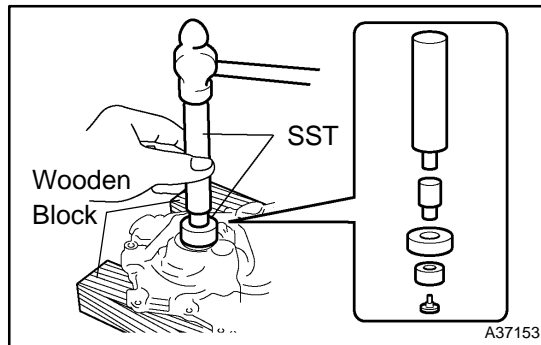
NOTICE:

Be careful not to damage the contact surface of the oil pump, cylinder head and cylinder block.

- (c) Remove the 2 O-rings from the cylinder block and oil pan No. 1.

**21. REMOVE OIL PUMP SEAL**

- (a) Using a screwdriver with the tip wrapped in tape, remove the oil seal.

**22. INSTALL OIL PUMP SEAL**

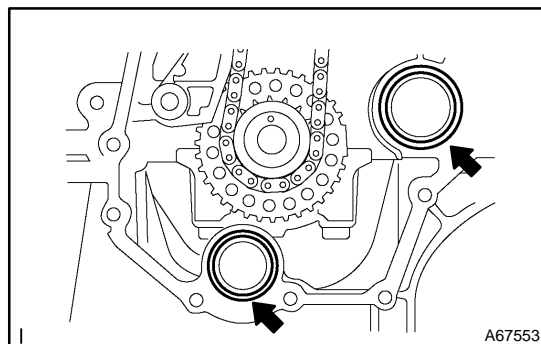
- (a) Using SST and a hammer, tap in a new oil seal until its surface is flush with the timing chain cover edge.

SST 09950-60010 (09951-00250, 09951-00380, 09952-06010), 09950-70010 (09951-07100)

NOTICE:

- **Be careful not to tap the oil seal at an angle.**
- **Keep the lip free of foreign objects.**

- (b) Apply multi-purpose grease to the oil seal lip.

**23. INSTALL OIL PUMP ASSY**

- (a) Install 2 new O-rings to the 2 locations as shown in the illustration.

- (b) Remove any old packing material from the contact surface.

- (c) Apply seal packing to the oil pump assembly, cylinder head and cylinder block as shown in the illustration.

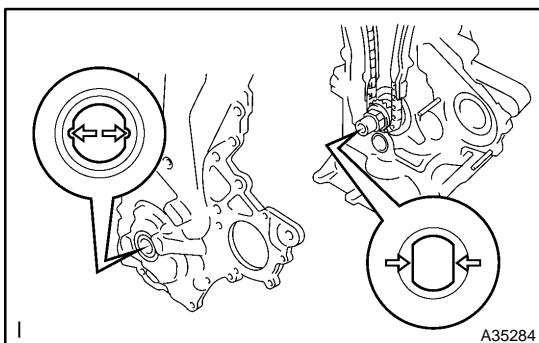
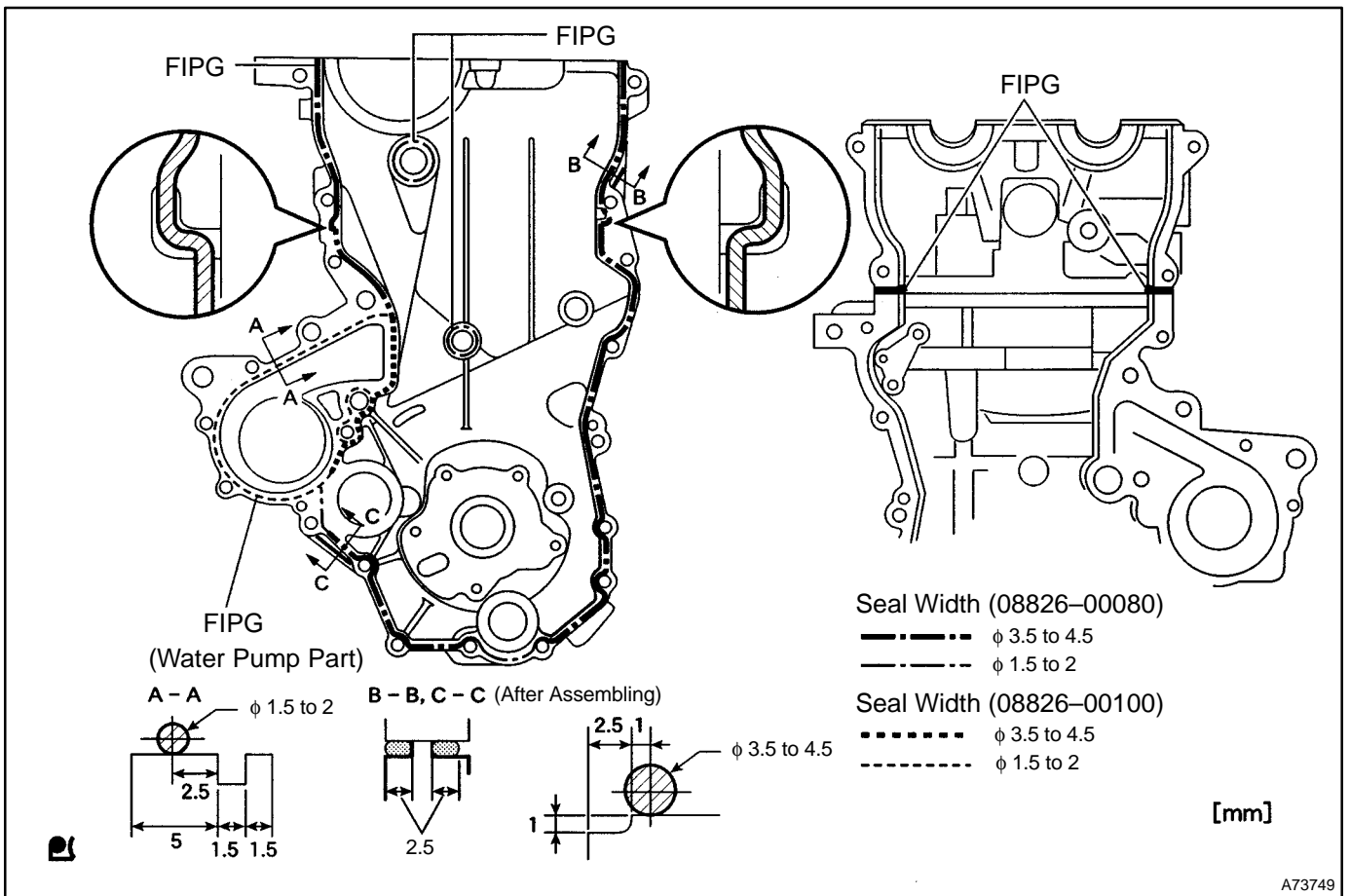
Seal packing:

Water pump part part No. 08826 - 00100 or equivalent

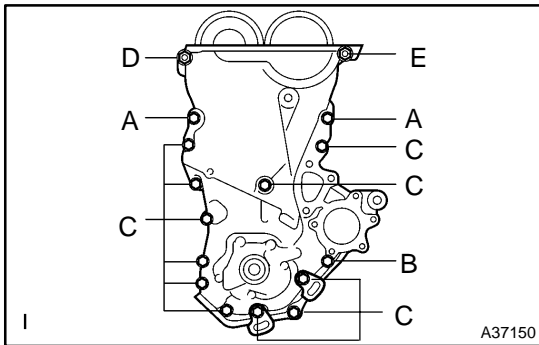
Other part part No. 08826 - 00080 or equivalent

NOTICE:

- Remove any oil from the contact surface.
- Install the oil pump within 3 minutes after applying seal packing.
- Do not expose the seal to engine oil within 2 hours of installation.



- (d) Align the keyway of the oil pump drive rotor with the rectangular portion of the crankshaft, and slide the oil pump into place.



- (e) Install the oil pump assembly with the 15 bolts and nut. Tighten the bolts and nut uniformly in several steps.

Torque:

Bolt A	24 N·m (245 kgf·cm, 18 ft·lbf)
Bolt B	11 N·m (112 kgf·cm, 8.1 ft·lbf)
Bolt C	11 N·m (112 kgf·cm, 8.1 ft·lbf)
Nut D	24 N·m (245 kgf·cm, 18 ft·lbf)
Bolt E	24 N·m (245 kgf·cm, 18 ft·lbf)

NOTICE:

- Pay attention not to disturb the seal packing.
- After installing the oil pump assembly, the mounting bracket and water pump must be installed within 15 minutes.

HINT:

Each bolt length is as follows.

A	30 mm (1.181 in.)
B	35 mm (1.378 in.)
C	20 mm (0.787 in.)
E	20 and 14 mm (0.787 and 0.551 in.) Double ended bolt

24. **INSTALL WATER PUMP ASSY**
25. **INSTALL TRANSVERSE ENGINE ENGINE MOUNTING BRACKET (See page 14-68)**
26. **INSTALL ENGINE MOUNTING INSULATOR SUB-ASSY RH (See page 14-68)**
27. **INSTALL CAMSHAFT TIMING OIL CONTROL VALVE ASSY (See page 14-68)**
28. **INSTALL CRANKSHAFT POSITION SENSOR (See page 18-6)**
29. **INSTALL WATER PUMP PULLEY (See page 16-10)**
SST 09960-10010 (09962-01000, 09963-00600)
30. **INSTALL CRANKSHAFT DAMPER SUB-ASSY (See page 14-68)**
SST 09330-00021, 09213-58012 (91111-50845)
31. **INSTALL CYLINDER HEAD COVER SUB-ASSY (See page 14-7)**
32. **INSTALL IGNITION COIL NO.1 (See page 14-7)**
33. **INSTALL CYLINDER HEAD COVER NO.2 (See page 14-7)**
34. **INSTALL GENERATOR ASSY (See page 19-15)**
35. **INSTALL FAN AND GENERATOR V BELT**
(a) Temporarily install the V-ribbed belt on each pulley.
36. **INSTALL VANE PUMP V BELT**
(a) Temporarily install the V-ribbed belt on each pulley.
37. **ADJUST FAN AND GENERATOR V BELT (See page 14-5)**
38. **ADJUST VANE PUMP V BELT (See page 14-5)**
39. **INSPECT DRIVE BELT DEFLECTION AND TENSION (See page 14-1)**
40. **INSTALL OIL PAN DRAIN PLUG**
(a) Clean and install the drain plug with a new gasket.
41. **INSTALL ENGINE UNDER COVER RH**
Torque:
5.0 N·m (51 kgf·cm, 44 in·lbf) for Bolt
5.0 N·m (51 kgf·cm, 44 in·lbf) for Nut
42. **ADD ENGINE OIL**
43. **CHECK FOR ENGINE OIL LEAKS**
44. **ADD ENGINE COOLANT (See page 16-7)**
45. **CHECK FOR ENGINE COOLANT LEAKS (See page 16-1)**