

REASSEMBLY

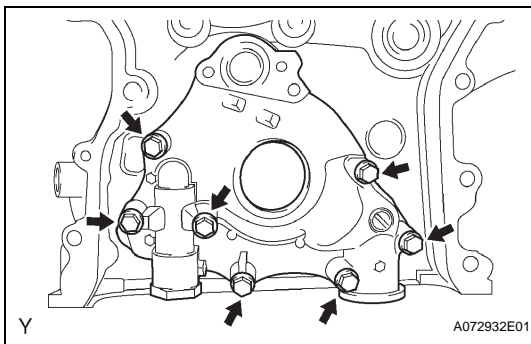
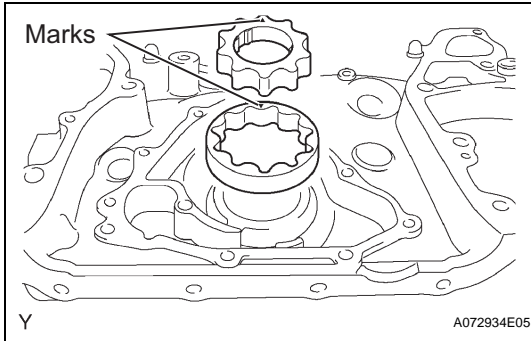
1. INSTALL OIL PUMP RELIEF VALVE

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

Torque: 49 N*m (500 kgf*cm, 36 ft.*lbf)

2. INSTALL OIL PUMP COVER

- (a) Apply fresh engine oil to the drive and driven rotors.
- (b) Place the drive and driven rotors into the timing chain cover with the marks facing the oil pump cover side.

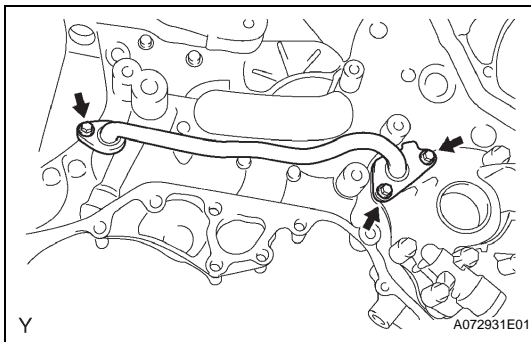


- (c) Install the oil pump cover with the 7 bolts.

Torque: 9.0 N*m (92 kgf*cm, 80 in.*lbf)

- (d) Install a new O-ring onto the oil pump cover.

- (e) Install a new O-ring onto the oil pipe.



- (f) Install the oil pipe with the 3 bolts.

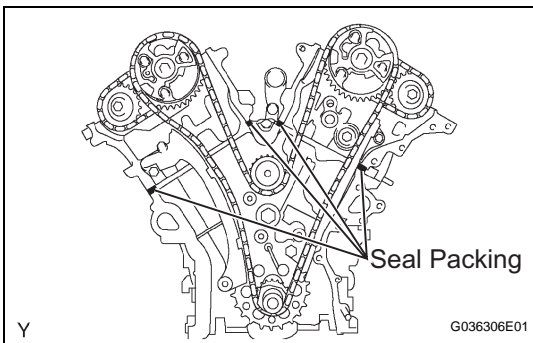
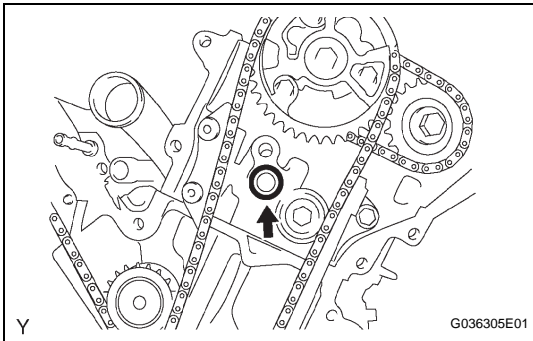
Torque: 9.0 N*m (92 kgf*cm, 80 in.*lbf)

INSTALLATION

1. INSTALL TIMING GEAR CASE OR TIMING CHAIN CASE OIL SEAL (See page EM-236)

2. INSTALL TIMING CHAIN OR BELT COVER SUB-ASSEMBLY

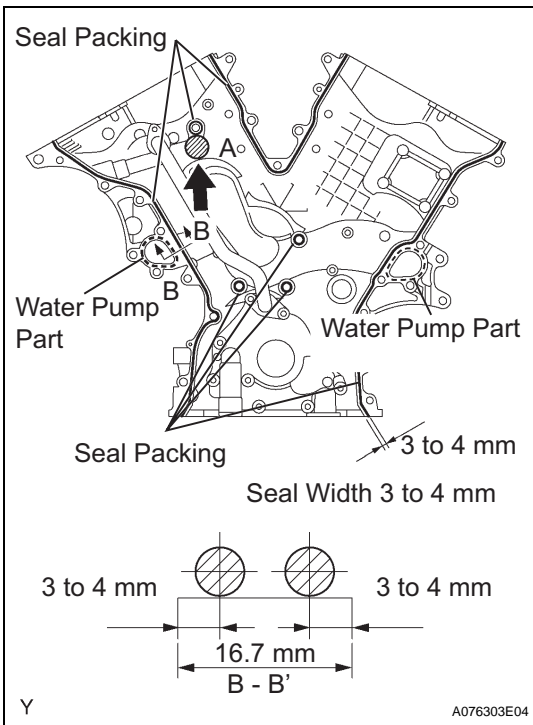
- (a) Remove any old packing (FIPG) material and be careful not to drop any oil on the contact surfaces of the timing chain cover, cylinder head and cylinder block.
- (b) Install a new O-ring onto the LH cylinder head as shown in the illustration.



- (c) Apply continuous beads of seal packing (diameter 3 to 4 mm (0.12 to 0.16 in.)) to the 4 locations shown in the illustration.

Seal packing:

Part No. 08826-00080 or equivalent



- (d) Apply continuous beads of seal packing (diameter 3 to 4 mm (0.12 to 0.16 in.)) to the timing chain cover as shown in the illustration.

Seal packing:

Water pump part:

Part No. 08826-00100 or equivalent

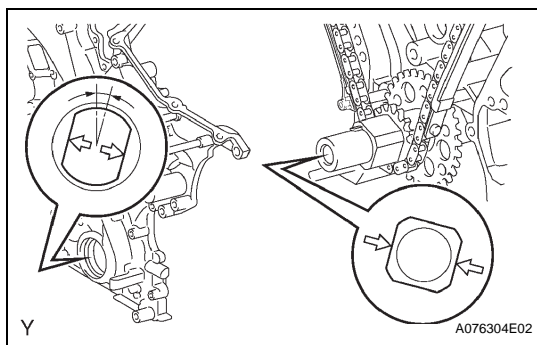
Other parts:

Part No. 08826-00080 or equivalent

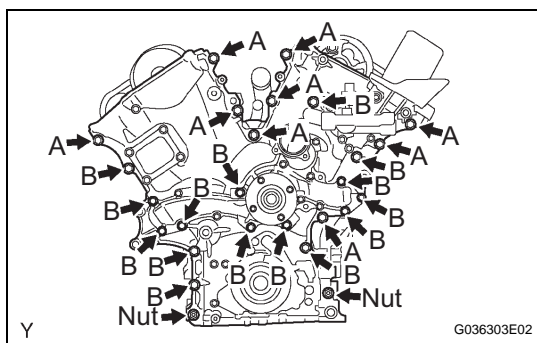
NOTICE:

- Install the timing chain cover within 3 minutes after applying seal packing. Timing chain cover bolts and nuts must be tightened within 15 minutes of installation. Otherwise the seal packing must be removed and reapplied.
- Do not apply seal packing to portion A shown in the illustration.

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- (e) Align the key way of the oil pump drive rotor with the rectangular portion of the crankshaft timing gear, and slide the timing chain cover into place.



- (f) Install the timing chain cover with the 24 bolts and 2 nuts. Tighten the bolts and nuts uniformly in several steps.

Torque: 23 N*m (235 kgf*cm, 17 ft.*lbf)

NOTICE:

Pay attention not to wrap the chain and slipper over the timing chain cover seal line.

Each bolt length is as follows

Bolt	Length
A	25 mm (0.98 in.)
B	55 mm (2.17 in.)

3. INSTALL OIL FILTER BRACKET SUB-ASSEMBLY

- (a) Install a new gasket and oil filter bracket with the 3 bolts and 2 nuts.

Torque: 19 N*m (194 kgf*cm, 14 ft.*lbf)

4. **INSTALL VVT SENSOR (See page [IG-8](#))**
5. **INSTALL CAMSHAFT TIMING OIL CONTROL VALVE ASSEMBLY (See page [ES-408](#))**
6. **INSTALL CYLINDER HEAD COVER SUB-ASSEMBLY LH (See page [EM-68](#))**
7. **INSTALL CYLINDER HEAD COVER SUB-ASSEMBLY (See page [EM-68](#))**
8. **INSTALL IGNITION COIL ASSEMBLY (See page [IG-7](#))**
9. **INSTALL INTAKE AIR SURGE TANK (See page [FU-17](#))**
10. **INSTALL OIL PAN SUB-ASSEMBLY (See page [EM-49](#))**
11. **INSTALL OIL STRAINER SUB-ASSEMBLY (See page [EM-51](#))**
12. **INSTALL NO.2 OIL PAN SUB-ASSEMBLY (See page [EM-51](#))**
13. **INSTALL CRANKSHAFT PULLEY (See page [EM-51](#))**
14. **INSTALL NO.1 IDLER PULLEY SUB-ASSEMBLY (See page [EM-51](#))**
15. **INSTALL NO.2 IDLER PULLEY SUB-ASSEMBLY (See page [EM-52](#))**

16. INSTALL V-RIBBED BELT TENSIONER ASSEMBLY
(See page [EM-52](#))
17. INSTALL COOLER COMPRESSOR ASSEMBLY (See
page [ES-410](#))
18. INSTALL GENERATOR ASSEMBLY (See page [CH-13](#))
19. INSTALL VANE PUMP ASSEMBLY (See page [EM-52](#))
20. INSTALL WATER INLET (See page [CO-10](#))
21. INSTALL OIL LEVEL GAUGE GUIDE
22. INSTALL AIR CLEANER ASSEMBLY (See page [ES-416](#))
23. INSTALL FAN SHROUD (See page [CO-20](#))
24. INSTALL RADIATOR SUPPORT TO FRAME SEAL LH
25. INSTALL FRONT DIFFERENTIAL CARRIER
ASSEMBLY
(See page [DF-38](#))
26. INSTALL POWER STEERING LINK ASSEMBLY
(See page [PS-67](#))
27. INSTALL BATTERY
28. ADD ENGINE OIL (See page [LU-5](#))
29. ADD ENGINE COOLANT (See page [CO-3](#))
30. ADD DIFFERENTIAL OIL (for 4WD)
31. INSPECT DIFFERENTIAL OIL (for 4WD) (See page
[DF-8](#))
32. ADD POWER STEERING FLUID (See page [PS-3](#))
33. BLEED POWER STEERING FLUID (See page [PS-2](#))
34. CHECK FOR ENGINE OIL LEAKAGE
35. CHECK FOR ENGINE COOLANT LEAKAGE (See
page [CO-4](#))
36. CHECK FOR FUEL LEAKAGE
37. CHECK FOR EXHAUST GAS LEAKAGE
38. CHECK POWER STEERING FLUID LEAKAGE
39. INSPECT AND ADJUST FRONT WHEEL ALIGNMENT
(See page [SP-7](#))
40. INSTALL V-BANK COVER (See page [ES-416](#))
41. INSPECT IGNITION TIMING (See page [EM-1](#))
42. INSPECT ENGINE IDLING SPEED (See page [EM-2](#))
43. INSPECT COMPRESSION (See page [EM-2](#))
44. INSPECT CO/HC (See page [EM-3](#))