

REASSEMBLY

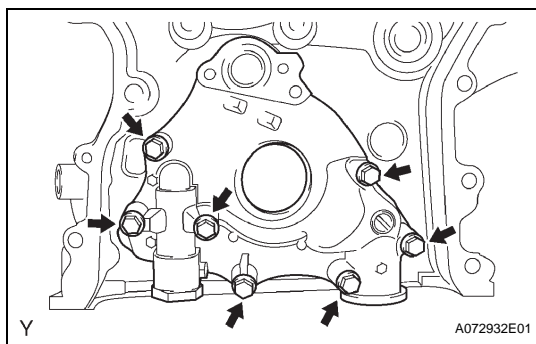
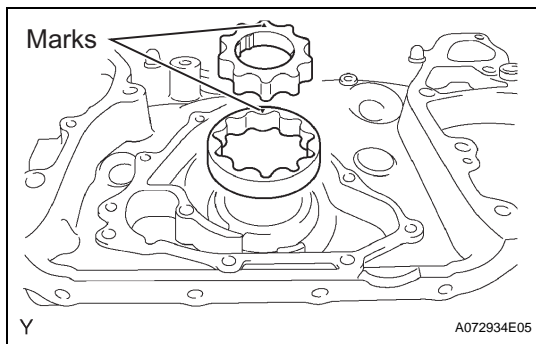
1. INSTALL OIL PUMP RELIEF VALVE

- (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.

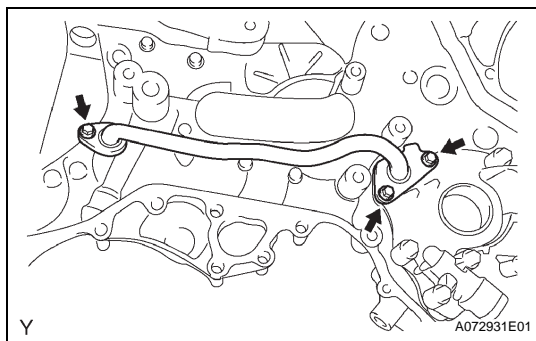
Torque: 49 N*m (500 kgf*cm, 36 ft.*lbf)

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.



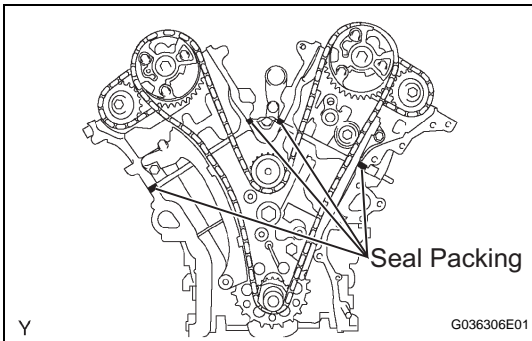
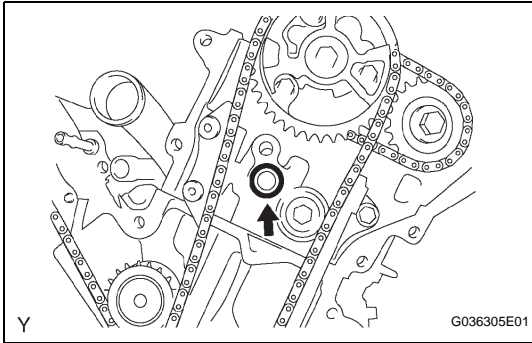
- (f) Install the oil pipe with the 3 bolts.
Torque: 9.0 N*m (92 kgf*cm, 80 in.*lbf)

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

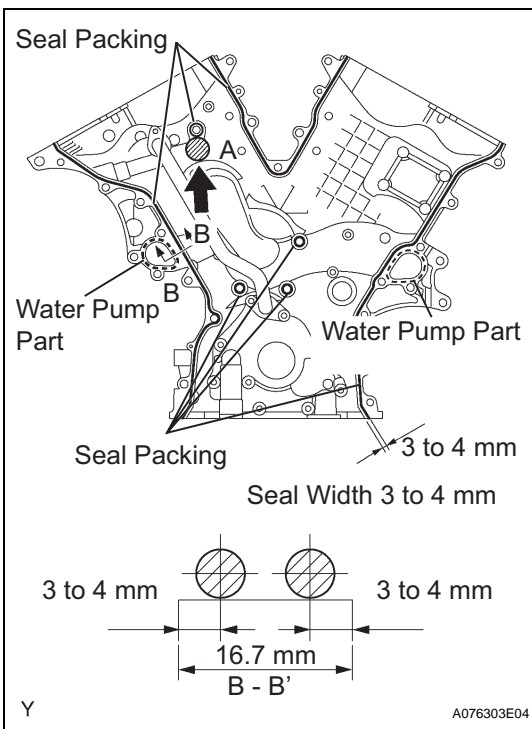
- Remove any old packing (FIPG) material. Be careful not to drop any oil on the contact surfaces of the timing chain cover, cylinder head and cylinder block.
- Install a new O-ring onto the LH cylinder head as shown in the illustration.



- 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



- 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

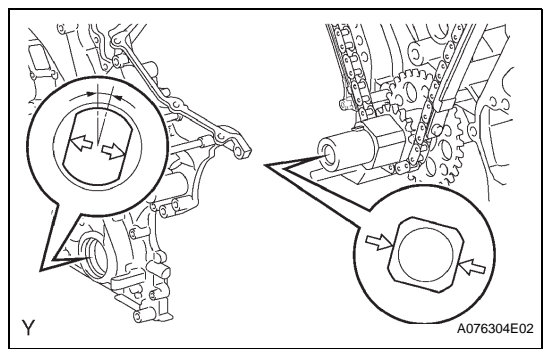
Other parts:

Part No. 08826-00080 or equivalent

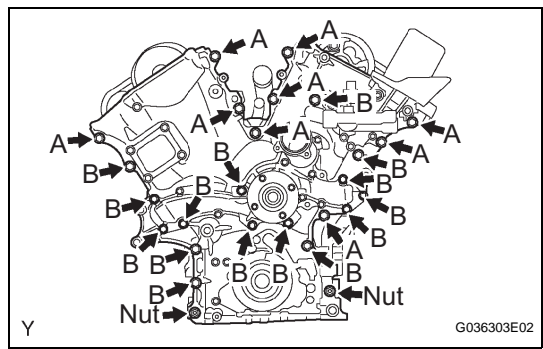
NOTICE:

- Install the timing chain cover within 3 minutes of applying the 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 the 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-8](#))**
- 9. INSTALL OIL PAN SUB-ASSEMBLY (See page [EM-31](#))**
- 10. INSTALL OIL STRAINER SUB-ASSEMBLY (See page [EM-29](#))**
- 11. INSTALL NO.2 OIL PAN SUB-ASSEMBLY (See page [EM-29](#))**
- 12. INSTALL CRANKSHAFT PULLEY (See page [EM-30](#))**
- 13. INSTALL NO.1 IDLER PULLEY SUB-ASSEMBLY (See page [EM-30](#))**
- 14. INSTALL NO.2 IDLER PULLEY SUB-ASSEMBLY (See page [EM-30](#))**
- 15. INSTALL V-RIBBED BELT TENSIONER ASSEMBLY (See page [EM-30](#))**
- 16. INSTALL WATER INLET (See page [CO-10](#))**

17. INSTALL OIL LEVEL GAUGE GUIDE
18. INSTALL ENGINE ASSEMBLY
(See page [EM-190](#))
19. INSTALL BATTERY
20. ADD ENGINE COOLANT (See page [CO-3](#))
21. ADD ENGINE OIL (See page [LU-5](#))
22. CHECK FOR ENGINE COOLANT LEAKAGE (See
page [CO-4](#))
23. CHECK FOR ENGINE OIL LEAKAGE
24. CHECK FOR FUEL LEAKAGE
25. CHECK FOR EXHAUST GAS LEAKAGE
26. INSPECT IGNITION TIMING (See page [EM-1](#))
27. INSPECT ENGINE IDLING SPEED (See page [EM-2](#))
28. INSPECT CO/HC (See page [EM-3](#))