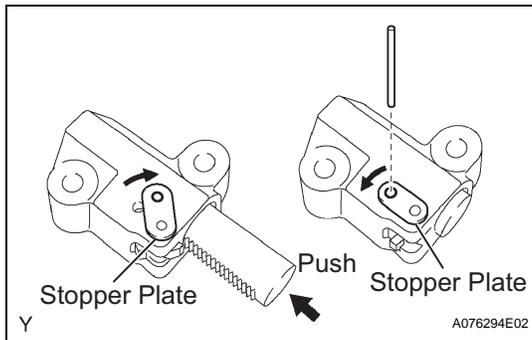


INSTALLATION

1. INSTALL CHAIN TENSIONER SLIPPER

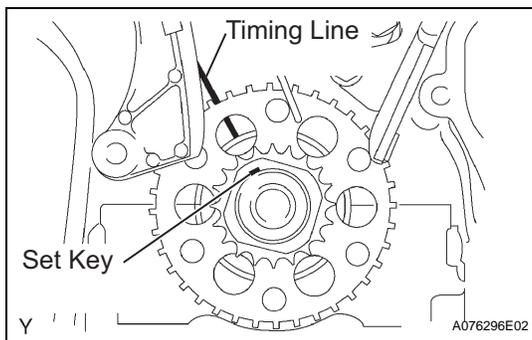
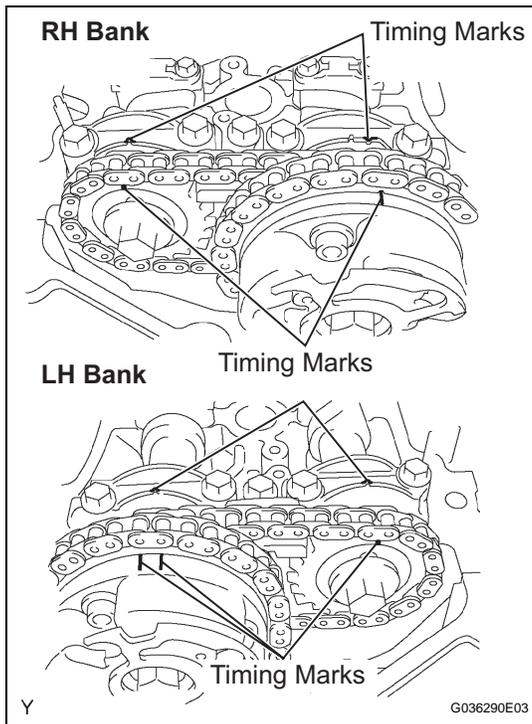


2. INSTALL NO.1 CHAIN TENSIONER ASSEMBLY

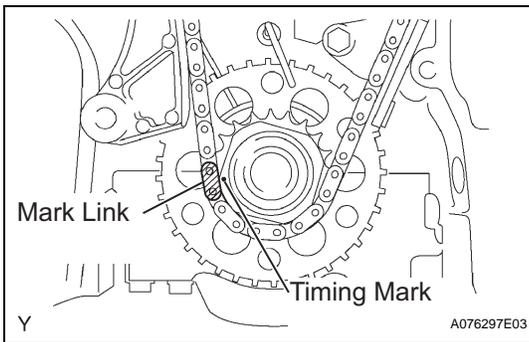
- (a) While turning the stopper plate of the tensioner clockwise, push in the plunger of the tensioner as shown in the illustration.
- (b) While turning the stopper plate of the tensioner counterclockwise, insert a bar of ϕ 35 mm (0.138 in.) into the holes in the stopper plate and tensioner to fix the stopper plate.
- (c) Install the chain tensioner with the 2 bolts.
Torque: 10 N*m (102 kgf*cm, 7.4 ft.*lbf)

3. INSTALL CHAIN SUB-ASSEMBLY

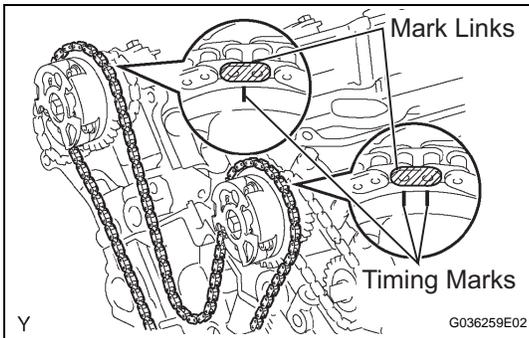
- (a) Set the No. 1 cylinder to TDC/ compression.
 - (1) Align the timing marks of the camshaft timing gears and bearing caps.



- (2) Using the crankshaft pulley set bolt, turn the crankshaft to align the crankshaft set key with the timing line of the cylinder block.



- (b) Align the yellow mark link with the timing mark of the crankshaft timing link.



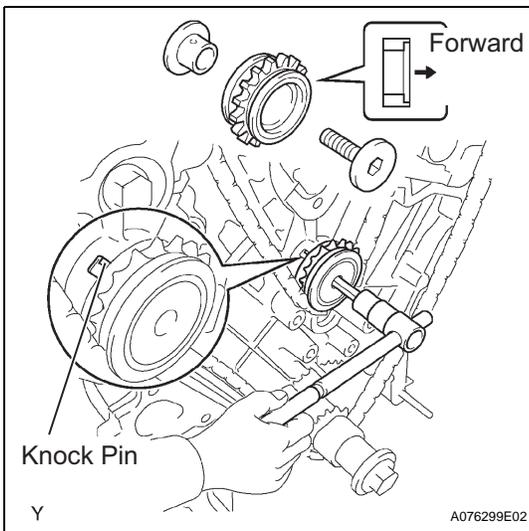
- (c) Align the orange mark links with the timing marks of the camshaft timing gears, and install the chain.

4. INSTALL NO.2 CHAIN VIBRATION DAMPER

- (a) Install the 2 chain vibration dampers No. 2.

5. INSTALL IDLE SPROCKET ASSEMBLY

- (a) Apply a light coat of engine oil to rotating surface of the idle gear shaft No. 1.



- (b) Temporarily install the idle gear shaft No. 1 together with the idle gear shaft No. 2 while aligning the knock pin of the idle gear shaft No. 1 with the knock pin groove of the cylinder block.

NOTICE:

Be careful of the idle gear direction.

- (c) Using 10 mm hexagon wrench, tighten the idle gear shaft No. 2.

Torque: 60 N*m (612 kgf*cm, 44 ft.*lbf)

- (d) Remove the bar from the chain tensioner.

6. INSTALL TIMING GEAR CASE OR TIMING CHAIN CASE OIL SEAL (See page [EM-236](#))

7. INSTALL TIMING CHAIN OR BELT COVER SUB-ASSEMBLY (See page [LU-20](#))

8. INSTALL VVT SENSOR (See page [IG-8](#))

9. INSTALL CAMSHAFT TIMING OIL CONTROL VALVE ASSEMBLY (See page [ES-408](#))

10. INSTALL CYLINDER HEAD COVER SUB-ASSEMBLY LH (See page [EM-68](#))

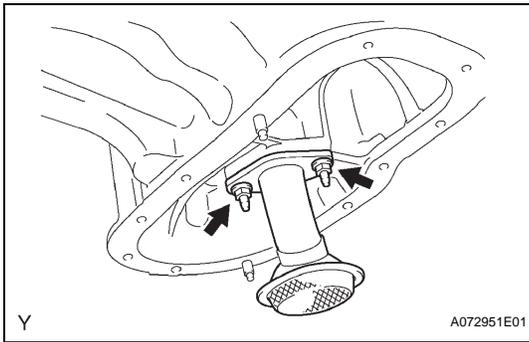
11. INSTALL CYLINDER HEAD COVER SUB-ASSEMBLY (See page [EM-68](#))

12. INSTALL IGNITION COIL ASSEMBLY (See page [IG-7](#))

13. INSTALL INTAKE AIR SURGE TANK (See page [EM-69](#))

14. INSTALL OIL PAN SUB-ASSEMBLY

- (a) Remove any old packing (FIPG) material and be careful not to drop any oil on the contact surfaces of the cylinder block, rear oil seal retainer and oil pan.

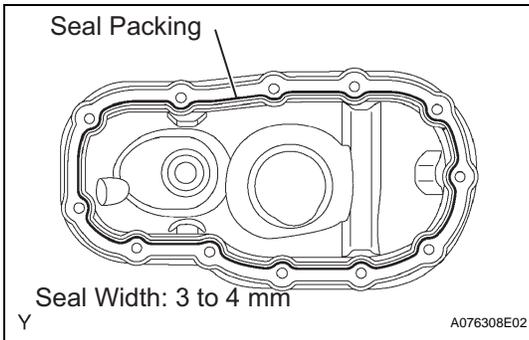
**15. INSTALL OIL STRAINER SUB-ASSEMBLY**

- (a) Install a new gasket and the oil strainer with the 2 nuts.

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

16. INSTALL NO.2 OIL PAN SUB-ASSEMBLY

- (a) Remove any old packing (FIPG) material and be careful not to drop any oil on the contact surfaces of the oil pan and oil pan No. 2.



- (b) Apply a continuous bead of seal packing (diameter 3 to 4 mm (0.12 to 0.16 in.)) as shown in the illustration.

Seal packing:

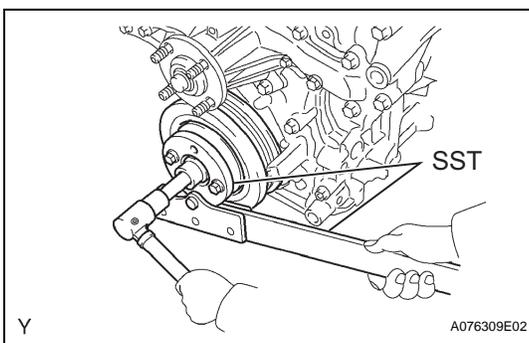
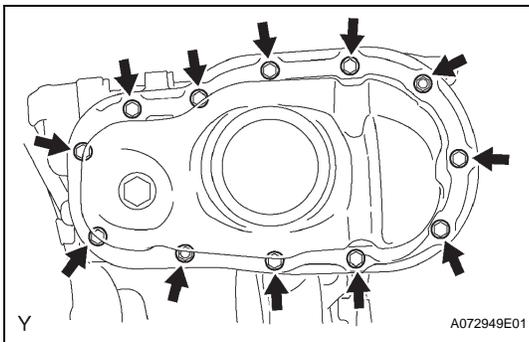
Part No. 08826-00080 or equivalent

NOTICE:

Install the oil pan No. 2 within 3 minutes of applying the seal packing. Tighten the oil pan No. 2 bolts and nuts within 15 minutes of installing the oil pan No. 2. Otherwise, the seal packing must be removed and reapplied.

- (c) Install the oil pan No. 2 with the 10 bolts and 2 nuts. Tighten the bolts and nuts uniformly in several steps.

**Torque: 9.0 N*m (92 kgf*cm, 80 in.*lbf) for bolts
10 N*m (102 kgf*cm, 7.4 in.*lbf) for nut**

**17. INSTALL CRANKSHAFT PULLEY**

- (a) Using SST, install the pulley set bolt.

SST 09213-54015 (91651-60855), 09330-00021

Torque: 250 N*m (2,549 kgf*cm, 184 ft.*lbf)

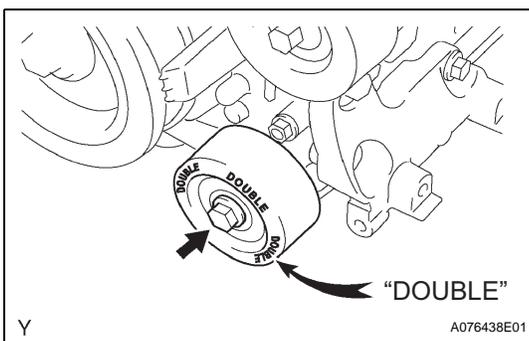
18. INSTALL NO.1 IDLER PULLEY SUB-ASSEMBLY

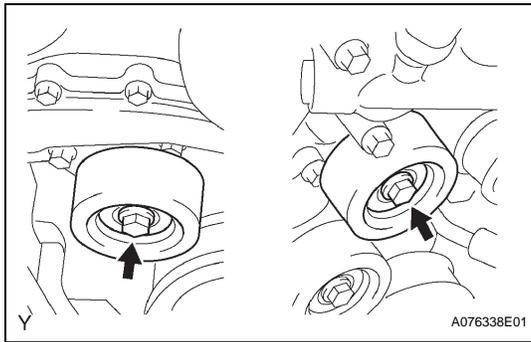
- (a) Install the idler pulley with the bolt.

Torque: 54 N*m (551 kgf*cm, 40 ft.*lbf)

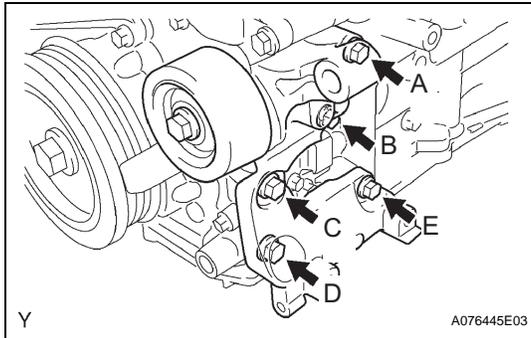
HINT:

DOUBLE is marked on the idler pulley No. 1 to distinguish it from the idler pulley No. 2.



**19. INSTALL NO.2 IDLER PULLEY SUB-ASSEMBLY**

- (a) Install the 2 idler pulleys with the 2 bolts.

Torque: 39 N*m (398 kgf*cm, 29 ft.*lbf)**20. INSTALL V-RIBBED BELT TENSIONER ASSEMBLY****NOTICE:****A bolt in position A is not reusable.****HINT:**

Each bolt length is as follows:

Position	Length
A	70 mm (2.76 in.)
B, C, D and E	33 mm (1.30 in.)

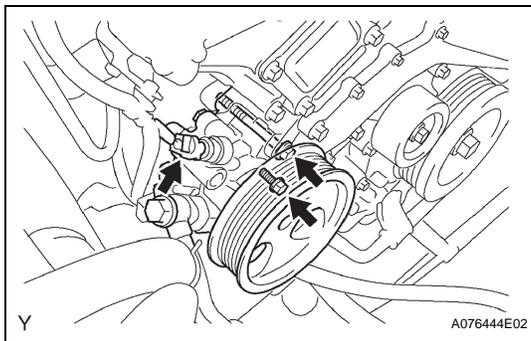
- (a) Use a new bolt in position A.
 (b) Finger-tighten the bolts in positions A and E and install the bracket.
 (c) Tighten the bolts in positions A and E.
Torque: 36 N*m (267 kgf*cm, 27 ft.*lbf)
 (d) Tighten the bolts in positions B, C and D.
Torque: 36 N*m (267 kgf*cm, 27 ft.*lbf)

21. INSTALL COOLER COMPRESSOR ASSEMBLY (See page [ES-410](#))**22. INSTALL GENERATOR ASSEMBLY (See page [CH-13](#))****23. INSTALL VANE PUMP ASSEMBLY**

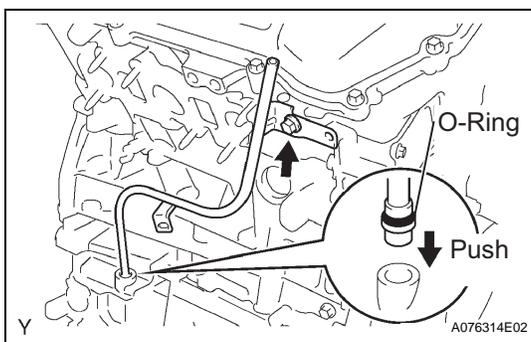
- (a) Install the vane pump with the 2 bolts.
 (b) Connect the power steering pressure switch connector.

Torque: 43 N*m (438 kgf*cm, 32 ft.*lbf)**NOTICE:****Do not hit the pulley with other parts when installing the vane pump.**

- (c) Connect the power steering pressure switch connector.

**24. INSTALL WATER INLET (See page [CO-10](#))****25. INSTALL OIL LEVEL GAGE GUIDE**

- (a) Install a new O-ring onto the oil level gauge guide.
 (b) Apply a light coat of engine oil to the O-ring.
 (c) Push the oil level gauge guide end into the guide hole of the oil pan.
 (d) Install the oil level gauge guide with the bolt.
Torque: 9.0 N*m (92 kgf*cm, 80 in.*lbf)
 (e) Install the oil level gauge guide.

**26. INSTALL AIR CLEANER ASSEMBLY (See page [ES-416](#))**

27. **INSTALL FAN SHROUD** (See page [CO-20](#))
28. **INSTALL RADIATOR SUPPORT TO FRAME SEAL LH**
29. **INSTALL FRONT DIFFERENTIAL CARRIER ASSEMBLY** (for 4WD)
(See page [DF-38](#))
30. **INSTALL POWER STEERING LINK ASSEMBLY**
(See page [PS-67](#))
31. **INSTALL BATTERY**
32. **ADD ENGINE OIL** (See page [LU-5](#))
33. **ADD ENGINE COOLANT** (See page [CO-3](#))
34. **ADD DIFFERENTIAL OIL** (for 4WD)
35. **INSPECT DIFFERENTIAL OIL** (for 4WD) (See page [DF-8](#))
36. **ADD POWER STEERING FLUID**
37. **BLEED POWER STEERING FLUID** (See page [PS-2](#))
38. **CHECK FOR ENGINE OIL LEAKAGE**
39. **CHECK FOR ENGINE COOLANT LEAKAGE** (See page [CO-4](#))
40. **CHECK FOR POWER STEERING FLUID LEAKAGE**
41. **INSPECT AND ADJUST FRONT WHEEL ALIGNMENT**
(See page [SP-7](#))
42. **INSTALL V-BANK COVER** (See page [ES-416](#))
43. **INSPECT IGNITION TIMING** (See page [EM-1](#))