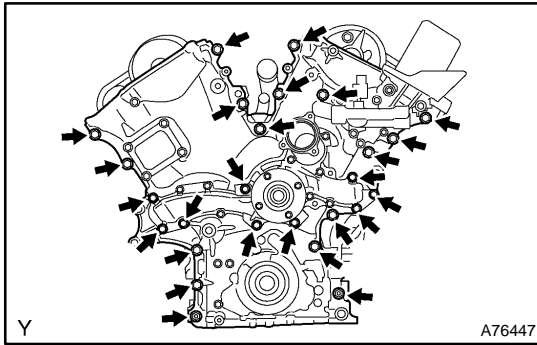


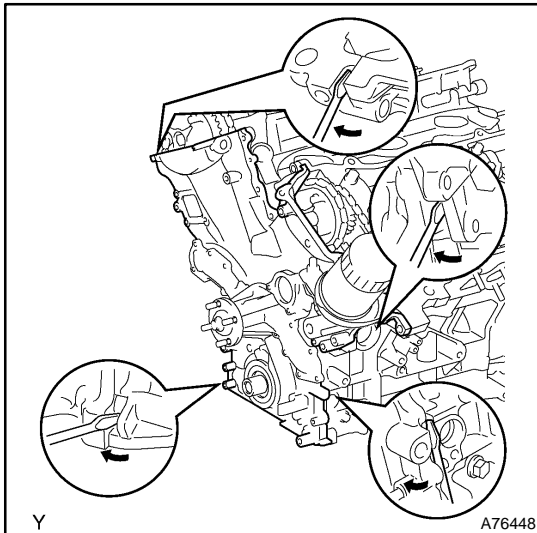
REPLACEMENT

1. REMOVE POWER STEERING LINK ASSY (See Pub No. RM1001U on page 51-20)
2. REMOVE DIFFERENTIAL CARRIER ASSY FRONT (4WD DRIVE TYPE) (See page 29-3)
3. DRAIN ENGINE COOLANT (See page 16-5)
4. DRAIN ENGINE OIL (See page 17-4)
5. REMOVE BATTERY
6. REMOVE V-BANK COVER (See page 10-7)
7. REMOVE RADIATOR SUPPORT SEAL UPPER
 - (a) Remove the 11 clips and radiator support seal upper.
8. LOOSEN FAN W/ FLUID COUPLING (See page 16-6)
9. REMOVE FAN AND GENERATOR V BELT (See page 14-5)
10. REMOVE FAN W/ FLUID COUPLING (See page 16-6)
11. DISCONNECT VENTILATION HOSE NO.2 (See page 10-7)
12. REMOVE AIR CLEANER ASSY (See page 10-7)
13. REMOVE OIL LEVEL GAUGE GUIDE
 - (a) Remove the oil level gauge.
 - (b) Remove the bolt and pull out the oil level gauge guide.
 - (c) Remove the O-ring from the oil level gauge guide.
14. REMOVE WATER INLET (See page 16-6)
15. SEPARATE VANE PUMP ASSY (See page 14-1 19)
16. REMOVE GENERATOR ASSY (See page 19-26)
17. SEPARATE COOLER COMPRESSOR ASSY (See page 18-7)
18. REMOVE V-RIBBED BELT TENSIONER ASSY (See page 14-1 19)
19. REMOVE IDLER PULLEY SUB-ASSY NO.2
 - (a) Remove the 2 bolts and 2 idler pulleys.
20. REMOVE IDLER PULLEY SUB-ASSY NO.1
 - (a) Remove the bolt and idler pulley.
21. REMOVE CRANKSHAFT PULLEY (See page 14-1 19)
SST 09213-54015 (91651-60855), 09330-00021, 09950-50013 (09951-05010, 09952-05010, 09953-05020, 09954-05030)
22. REMOVE OIL PAN SUB-ASSY NO.2 (See page 14-1 19)
SST 09032-00100
23. REMOVE OIL STRAINER SUB-ASSY (See page 14-1 19)
24. REMOVE OIL PAN SUB-ASSY (See page 14-1 19)
25. REMOVE INTAKE AIR SURGE TANK (See page 14-132)
26. REMOVE IGNITION COIL ASSY
27. REMOVE CYLINDER HEAD COVER SUB-ASSY (See page 14-132)
28. REMOVE CYLINDER HEAD COVER SUB-ASSY LH (See page 14-132)
29. REMOVE CAMSHAFT TIMING OIL CONTROL VALVE ASSY
 - (a) Disconnect the 2 oil control valve connectors.
 - (b) Remove the 2 bolts and 2 camshaft timing oil control valves.
30. REMOVE VVT SENSOR (See page 18-5)
31. REMOVE OIL FILTER BRACKET SUB-ASSY
 - (a) Remove the 3 bolts, 2 nuts, oil filter bracket and gasket.



32. REMOVE TIMING CHAIN OR BELT COVER SUB-ASSY

- (a) Remove the 24 bolts and 2 nuts.

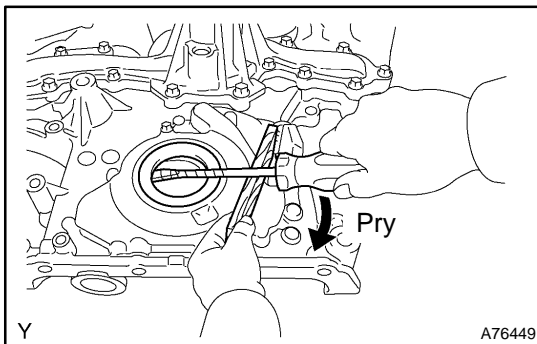


- (b) Remove the timing chain cover by prying between the timing chain cover and cylinder head or cylinder block with a screwdriver.

NOTICE:

Be careful not to damage the contact surfaces of the timing chain cover, cylinder block and cylinder head.

- (c) Remove the O-ring from the LH cylinder head.

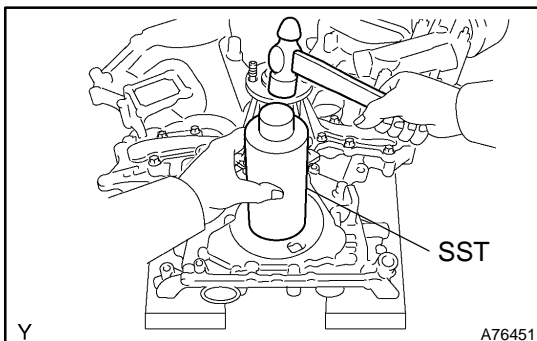


33. REMOVE TIMING GEAR CASE OR TIMING CHAIN CASE OIL SEAL

- (a) Using a screwdriver, pry out the oil seal.

NOTICE:

Be careful not to damage the oil pump assembly. Wrap a tip of the screwdriver with tape.



34. INSTALL TIMING GEAR CASE OR TIMING CHAIN CASE OIL SEAL

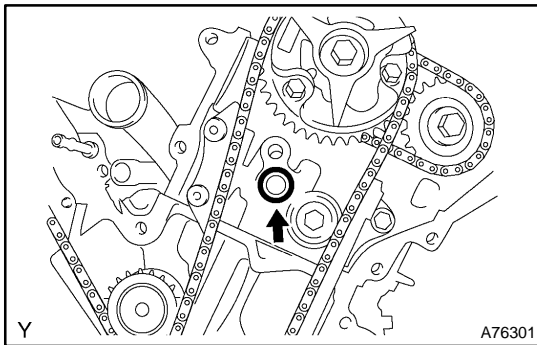
- (a) Using SST and a hammer, tap in a new oil seal until its surface is flush with the timing chain cover edge.

SST 09226-10010

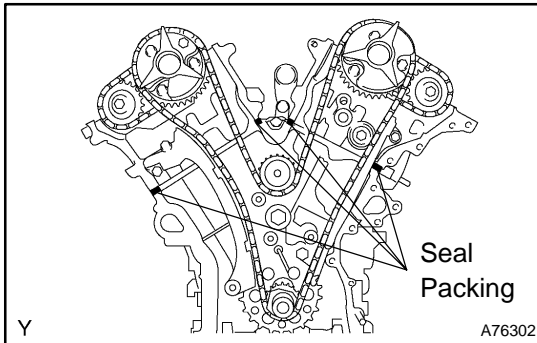
- (b) Apply MP grease to the oil seal lip.

35. INSTALL TIMING CHAIN OR BELT COVER SUB-ASSY

- (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.

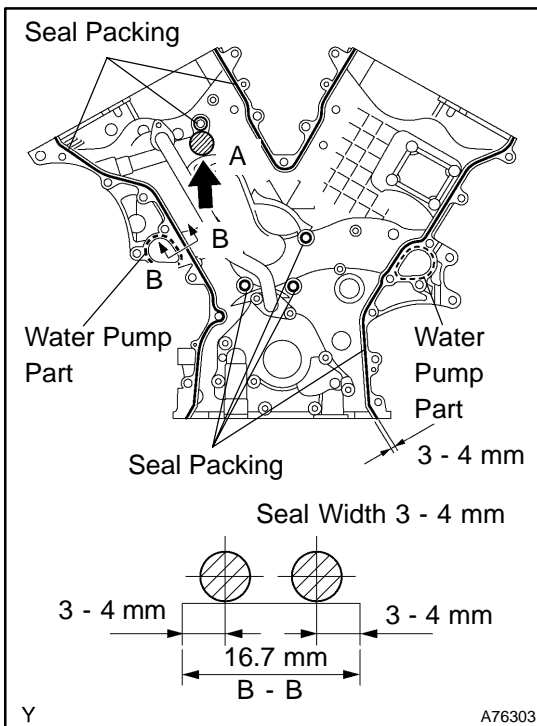


- (b) Install a new O-ring to the LH cylinder head as shown in the illustration.



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

Seal packing: Part No. 08826-00080 or equivalent



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

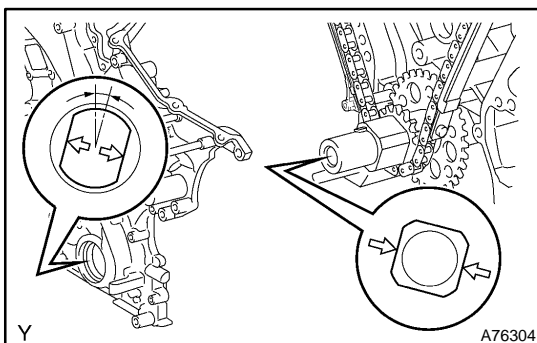
Seal packing:

Water pump part: Part No. 08826-00100 or equivalent

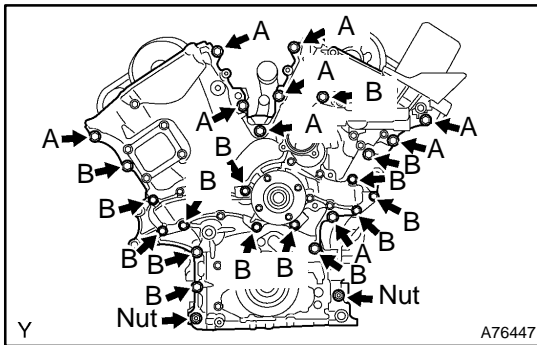
Other part: Part No. 08826-00080 or equivalent

NOTICE:

- Install the timing chain cover within 3 minutes after applying seal packing. After installing it, timing chain cover bolts and nuts must be tightened within 15 minutes. Otherwise the seal packing must be removed and reapplied.
- Do not apply seal packing to the "A" as shown in the illustration.



- (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.

HINT:

Each bolt length as follows:

A 25 mm (0.98 in.)

B 55 mm (2.17 in.)

36. INSTALL OIL FILTER BRACKET SUB-ASSY

- (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)

37. INSTALL VVT SENSOR (See page 18-5)

38. INSTALL CAMSHAFT TIMING OIL CONTROL VALVE ASSY

- (a) Insert the camshaft timing oil control valves to each cylinder head, and tighten the 2 bolts.

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

39. INSTALL CYLINDER HEAD COVER SUB-ASSY LH (See page 14-132)

40. INSTALL CYLINDER HEAD COVER SUB-ASSY (See page 14-132)

41. INSTALL IGNITION COIL ASSY

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

42. INSTALL INTAKE AIR SURGE TANK (See page 14-132)

43. INSTALL OIL PAN SUB-ASSY (See page 14-1 19)

44. INSTALL OIL STRAINER SUB-ASSY (See page 14-1 19)

45. INSTALL OIL PAN SUB-ASSY NO.2 (See page 14-1 19)

46. INSTALL CRANKSHAFT PULLEY (See page 14-1 19)

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

47. INSTALL IDLER PULLEY SUB-ASSY NO.1 (See page 14-1 19)

48. INSTALL IDLER PULLEY SUB-ASSY NO.2 (See page 14-1 19)

49. INSTALL V-RIBBED BELT TENSIONER ASSY (See page 14-1 19)

50. INSTALL COOLER COMPRESSOR ASSY (See page 18-7)

51. INSTALL GENERATOR ASSY (See page 19-26)

52. INSTALL VANE PUMP ASSY (See page 14-1 19)

53. INSTALL WATER INLET (See page 16-6)

54. INSTALL OIL LEVEL GAUGE GUIDE (See page 14-1 19)

55. INSTALL AIR CLEANER ASSY (See page 10-7)

56. CONNECT VENTILATION HOSE NO.2

57. INSTALL FAN W/ FLUID COUPLING (See page 16-6)

58. INSTALL FAN AND GENERATOR V BELT (See page 14-5)

59. FULLY TIGHTEN FAN W/ FLUID COUPLING (See page 16-6)

60. INSTALL RADIATOR SUPPORT SEAL UPPER

61. INSTALL BATTERY

62. INSTALL DIFFERENTIAL CARRIER ASSY FRONT (4WD DRIVE TYPE) (See page 29-3)

63. INSTALL POWER STEERING LINK ASSY (See Pub No. RM1001U on page 51-20)

64. ADD ENGINE OIL (See page 17-4)

65. ADD ENGINE COOLANT (See page 16-5)

66. CHECK FOR ENGINE OIL LEAKS

67. CHECK FOR ENGINE COOLANT LEAKS (See page 16-1)

68. INSTALL V-BANK COVER

- (a) Install the V-bank cover with the 2 nuts.
Torque: 7.5 N·m (76 kgf·cm, 66 in·lbf)