

REPLACEMENT

1. DISCONNECT BATTERY NEGATIVE TERMINAL
2. REMOVE AIR CLEANER INLET NO. 1

3. DRAIN ENGINE COOLANT
4. REMOVE V-BANK COVER

5. REMOVE INTAKE AIR CONNECTOR PIPE

6. REMOVE ENGINE UNDER COVER

7. DISCONNECT RADIATOR HOSE NO. 1

8. DISCONNECT RADIATOR HOSE NO. 2

9. DISCONNECT OIL COOLER INLET TUBE NO. 1

10. DISCONNECT OIL COOLER OUTLET TUBE NO. 1

11. REMOVE AIR CLEANER ASSY

12. REMOVE RADIATOR ASSY

- (a) Remove the 2 nuts and 2 upper radiator support.
- (b) Lift out the radiator and cooling fan assembly.

13. REMOVE FAN AND GENERATOR V BELT

(See page 4-6)

14. REMOVE VANE PUMP ASSY

- (a) Remove the 2 bolts and nut, and the vane pump assembly.

HINT:

Vane pump assembly should be removed with the hoses connected and then hung with a rope or wire in the body's side.

15. REMOVE GENERATOR ASSY

(See page 9-20)

16. DISCONNECT COMPRESSOR AND MAGNETIC CLUTCH

HINT:

The cooler compressor together with the magnetic clutch should be removed with the low-pressure and high-pressure hoses connected and then hung with a rope or wire in the body's side.

17. REMOVE TIMING CHAIN OR BELT COVER NO. 2

18. REMOVE TIMING BELT COVER SUB-ASSY NO. 3 LH

19. REMOVE TIMING BELT COVER SUB-ASSY NO. 2

20. REMOVE V-RIBBED BELT TENSIONER ASSY

21. REMOVE IDLER PULLEY ASSY

22. REMOVE CRANKSHAFT DAMPER SUB-ASSY

(See page 14-39)

23. REMOVE TIMING BELT NO. 1 COVER

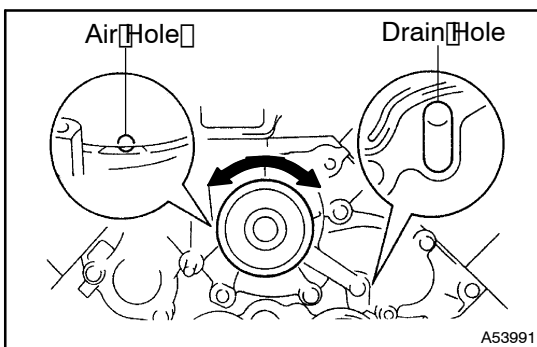
(a) Remove the 4 bolts and timing belt cover.

24. REMOVE CRANKSHAFT POSITION SENSOR PLATE NO. 1**25. REMOVE TIMING BELT**

(See page 14-39)

26. INSTALL TIMING BELT

(a) Check the timing belt idler No. 1 and No. 2 (See page 14-39).



(b) Check the water pump.

(1) Visually check the air hole and water hole for coolant leakage.

If leakage is found, replace the water pump and timing belt.

(2) Turn the pulley, and check that the water pump bearing moves smoothly and quietly.

If necessary, replace the water pump.

(c) Remove any oil or water on the crankshaft pulley, oil pump pulley, water pump pulley, idler No. 1 and idler No. 2, and keep them clean.

NOTICE:**Only wipe the pulleys; do not use any cleansing agent.**

(d) Install the timing belt (See page 14-39).

27. INSTALL CRANKSHAFT POSITION SENSOR PLATE NO. 1

(a) Install the sensor plate, facing the cup side outward.

28. INSTALL TIMING BELT NO. 1 COVER

(a) Install the timing belt cover with the 4 bolts.

Torque: 7.5 N·m (80 kgf·cm, 66 in.·lbf)**29. INSTALL CRANKSHAFT DAMPER SUB-ASSY**

(See page 14-39)

30. INSTALL IDLER PULLEY ASSY

(See page 14-39)

31. INSTALL V-RIBBED BELT TENSIONER ASSY

(a) Install the belt tensioner with the bolt and 2 nuts.

Torque: 15.5 N·m (160 kgf·cm, 11 ft·lbf)**HINT:**

Use a bolt 106 mm (4.18 in.) in length.

32. INSTALL TIMING BELT COVER SUB-ASSY NO. 2

(See page 14-39)

33. INSTALL TIMING BELT COVER SUB-ASSY NO. 3 LH**Torque: 7.5 N·m (80 kgf·cm, 66 in.·lbf)**

34. INSTALL TIMING CHAIN OR BELT COVER (NO. 2)

Torque: 7.5 N·m (80 kgf·cm, 66 in. lbf)

35. INSTALL COMPRESSOR AND MAGNETIC CLUTCH

- (a) Install the cooler compressor, stay and wire bracket with the 3 bolts and nut.

Torque:

49 N·m (500 kgf·cm, 36 ft lbf) for bolt

29 N·m (300 kgf·cm, 21 ft lbf) for nut

36. INSTALL GENERATOR ASSY

(See page 19-20)

37. INSTALL VANE PUMP ASSY

- (a) Install the vane pump assembly with the 2 bolts and nut. Alternately tighten the bolts and nut.

Torque:

39.2 N·m (400 kgf·cm, 29 ft lbf) for bolt

43.1 N·m (440 kgf·cm, 32 ft lbf) for nut

38. INSTALL FAN AND GENERATOR V BELT

(See page 14-6)

39. INSTALL RADIATOR ASSY

- (a) Install the radiator and cooling fan assembly with the 2 upper radiator supports and 2 nuts.

Torque: 13.5 N·m (135 kgf·cm, 10 ft lbf)

40. INSTALL AIR CLEANER ASSY

Torque: 5.0 N·m (50 kgf·cm, 41 in. lbf)

41. INSTALL AIR CLEANER INLET (NO. 1)

Torque: 5.0 N·m (50 kgf·cm, 41 in. lbf)

42. INSTALL INTAKE AIR CONNECTOR PIPE

Torque: 5.0 N·m (50 kgf·cm, 41 in. lbf)

43. INSTALL V-BANK COVER

Torque: 5.0 N·m (50 kgf·cm, 41 in. lbf)

44. REFILL ENGINE COOLANT (See page 16-2)**45. CHECK ENGINE COOLANT LEAK (See page 16-2)****46. INSTALL ENGINE UNDER COVER**