WATER PUMP ASSY (5L–E)

1608A–02

REPLACEMENT

1. **REMOVE ENGINE UNDER COVER SUB–ASSY NO.1**
2. **DRAIN ENGINE COOLANT (See page 16–18)**
3. **REMOVE AIR CLEANER ASSY (See page 14–91)**
4. **REMOVE RADIATOR SUPPORT SEAL UPPER**
5. **REMOVE RADIATOR HOSE NO.1**
6. **REMOVE VANE PUMP V BELT (See page 14–99)**
7. **REMOVE V (COOLER COMPRESSOR TO CRANKSHAFT PULLEY) BELT NO.1 (W/ AIR CONDITIONING) (See page 14–99)**
8. **REMOVE FAN AND GENERATOR V BELT (W/O AIR CONDITIONING) (See page 14–99)**

HINT:

Loosen the 4 fan pulley nuts.

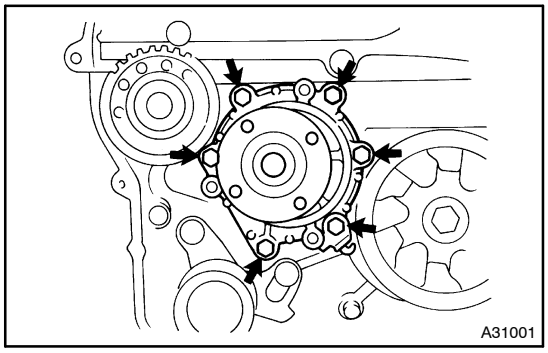
9. **REMOVE FAN AND GENERATOR V BELT (W/ AIR CONDITIONING) (See page 14–99)**

HINT:

Loosen the 4 fan pulley nuts.

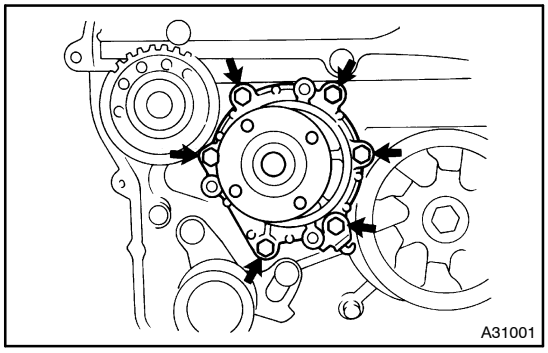
10. **REMOVE FLUID COUPLING ASSY (See page 14–99)**
11. **REMOVE FAN SHROUD**
12. **REMOVE IDLE PULLEY BRACKET (W/ AIR CONDITIONING)**
13. **SEPARATE COMPRESSOR AND MAGNETIC CLUTCH (W/ AIR CONDITIONING) (See page 14–91)**
14. **REMOVE COMPRESSOR MOUNTING BRACKET NO.1 (W/ AIR CONDITIONING) (See page 14–91)**
15. **REMOVE VANE PUMP DRIVE PULLEY (W/O AIR CONDITIONING) (See page 14–99)**
16. **REMOVE VANE PUMP DRIVE PULLEY (W/ AIR CONDITIONING) (See page 14–99)**
17. **REMOVE CRANKSHAFT PULLEY (See page 14–99)**

    SST 09213–54015 (91651–60855), 09330–00021, 09950–50013 (09951–05010, 09952–05010, 09953–05010, 09953–05020, 09954–05030)
18. **REMOVE RADIATOR HOSE HOSE CLAMP**
19. **REMOVE TIMING CHAIN OR BELT COVER SUB–ASSY (See page 14–99)**
20. **REMOVE TIMING BELT GUIDE**
21. **SET NO. 1 CYLINDER TO TDC/COMPRESSION (See page 14–99)**
22. **REMOVE TIMING BELT (See page 14–99)**



23. **REMOVE WATER PUMP ASSY**

(a) Remove the 6 bolts, tension spring bracket, water pump and gasket.



24. INSTALL WATER PUMP ASSY

(a) Install a new gasket, the water pump and tension spring bracket with the 6 bolts.
Torque: 23 N·m (230 kgf·cm, 17 ft·lbf)

25. INSPECT TIMING BELT (See page 14–99)
26. INSPECT TIMING BELT IDLER SUB–ASSY NO.1 (See page 14–99)
27. INSPECT IDLER TENSION SPRING (See page 14–99)
28. SET NO. 1 CYLINDER TO TDC/COMPRESSION (See page 14–99)
29. INSTALL TIMING BELT (See page 14–99)
SST 09960–10010 (09962–01000, 09963–01000)
30. CHECK VALVE TIMING (See page 14–99)
31. INSTALL TIMING BELT GUIDE (See page 14–99)
32. INSTALL TIMING CHAIN OR BELT COVER SUB–ASSY (See page 14–99)
33. INSTALL RADIATOR HOSE HOSE CLAMP (See page 14–99)
34. INSTALL CRANKSHAFT PULLEY (See page 14–99)
SST 09213–54015 (91651–60855), 09330–00021
35. INSTALL VANE PUMP DRIVE PULLEY (W/O AIR CONDITIONING) (See page 14–99)
36. INSTALL VANE PUMP DRIVE PULLEY (W/ AIR CONDITIONING) (See page 14–99)
37. INSTALL COMPRESSOR MOUNTING BRACKET NO.1 (W/ AIR CONDITIONING) (See page 14–91)
38. INSTALL COMPRESSOR AND MAGNETIC CLUTCH (W/ AIR CONDITIONING) (See page 14–91)
39. INSTALL IDLE PULLEY BRACKET (W/ AIR CONDITIONING) (See page 14–91)
40. INSTALL FAN SHROUD (See page 16–20)
41. TEMPORARILY TIGHTEN FLUID COUPLING ASSY (See page 14–99)
42. INSTALL FAN AND GENERATOR V BELT (W/O AIR CONDITIONING) (See page 14–99)
43. INSTALL FAN AND GENERATOR V BELT (W/ AIR CONDITIONING) (See page 14–99)
44. TIGHTEN FLUID COUPLING ASSY (See page 14–99)
45. INSTALL V (COOLER COMPRESSOR TO CRANKSHAFT PULLEY) BELT NO.1 (W/ AIR CONDITIONING) (See page 14–91)
46. INSTALL VANE PUMP V BELT (See page 14–91)
47. INSTALL AIR CLEANER ASSY (See page 14–91)
48. ADD ENGINE COOLANT (See page 16–18)
49. CHECK FOR ENGINE COOLANT LEAKS (See page 16–18)
50. INSTALL ENGINE UNDER COVER SUB–ASSY NO.1 (See page 14–91)