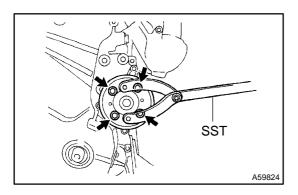
# WATER PUMP ASSY (2ZZ-GE)

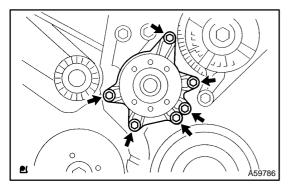
# **REPLACEMENT**

- 1. DRAIN COOLANT (See page 16-18)
- 2. REMOVE ENGINE UNDER COVER RH
- 3. REMOVE CYLINDER HEAD COVER NO.2
- (a) Remove the 3 bolts and nut, then remove the cylinder head cover No. 2.
- 4. DISCONNECT BATTERY NEGATIVE TERMINAL
- 5. REMOVE WIRE HARNESS PROTECTOR (See page 14-161)
- 6. SEPARATE SUCTION HOSE SUB-ASSY (See page 14-161)
- 7. REMOVE AIR SWITCHING VALVE ASSY (See page 12-34)
- 8. REMOVE FAN AND GENERATOR V BELT (See page 14-161)
- 9. REMOVE GENERATOR BRACKET NO.1 (See page 19-20)
- 10. REMOVE GENERATOR ASSY (See page 19-20)



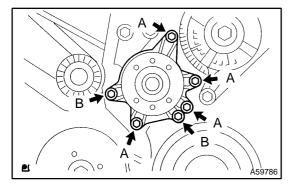
## 11. REMOVE WATER PUMP PULLEY

(a) Using SST, remove the water pump pulley. SST 09960-10010 (09962-01000, 09963-00600)



# 12. REMOVE WATER PUMP ASSY

- (a) Remove the 6 bolts and water pump.
- (b) Remove the O-ring from the timing chain cover.



## 13. INSTALL WATER PUMP ASSY

- (a) Place a new O-ring on the timing chain cover.
- (b) Install the water pump with the 6 bolts.

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

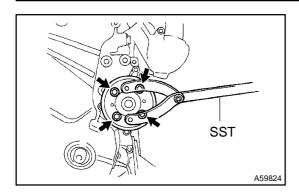
## HINT:

Each bolt length is indicated in the table.

Bolt A	35 mm (1.38 in.)
Bolt B	28 mm (1.10 in.)

2005 COROLLA MATRIX REPAIR MANUAL (RM1108U)

Author: Date: 2888



# 14. INSTALL WATER PUMP PULLEY

(a) Using SST, install the water pump pulley. SST 09960-10010 (09962-01000, 09963-00600) Torque: 15 N·m (153 kgf·cm, 11 ft·lbf)

- 15. INSTALL GENERATOR ASSY (See page 19-20)
- 16. INSTALL GENERATOR BRACKET NO.1 (See page 19-20)
- 17. INSTALL AIR SWITCHING VALVE ASSY (See page 12-34)
- 18. INSTALL SUCTION HOSE SUB-ASSY Torque: 9.8 N·m (100 kgf·cm, 87 in.·lbf)
- 19. CONNECT BATTERY NEGATIVE TERMINAL Torque: 3.5 N m (36 kgf cm, 31 in. lbf)
- 20. ADD COOLANT (See page 16-18)
- 21. CHECK FOR ENGINE COOLANT LEAKAGE (See page 16-12)
- 22. INSTALL CYLINDER HEAD COVER NO.2 Torque: 7.0 N·m (71 kgf·cm, 62 in.·lbf)