

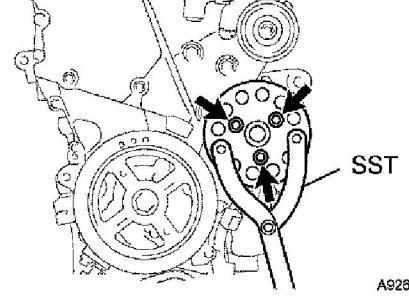
## Water Pump: Service and Repair

### Hybrid Drive Water Pump

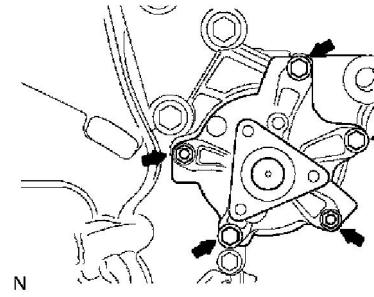
#### WATER PUMP ASSY (1NZ-FXE)

##### REPLACEMENT

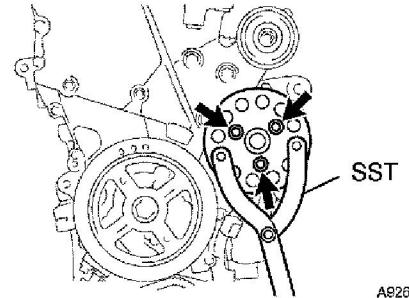
1. REMOVE RADIATOR SUPPORT OPENING COVER
2. REMOVE ENGINE UNDER COVER LH
3. REMOVE ENGINE UNDER COVER RH
4. DRAIN ENGINE COOLANT
5. REMOVE FAN AND GENERATOR V BELT



6. REMOVE WATER PUMP PULLEY
  - a. Using SST, hold the water pump pulley.  
SST 09960-10010 (09962-01000, 09963-00600)
  - b. Remove the 3 bolts and water pump pulley.



7. REMOVE WATER PUMP ASSY
  - a. Remove the 3 bolts and 2 nuts, then remove the water pump assembly.
8. INSTALL WATER PUMP ASSY
  - a. Install a new gasket, then install the water pump assembly with the 3 bolts and 2 nuts.  
Torque: 11 Nm (112 kgf-cm, 8.1 ft. lbs.)



9. INSTALL WATER PUMP PULLEY
  - a. Temporarily install the water pump pulley with the 3 bolts.
  - b. Using SST, hold the water pump pulley.  
SST 09960-10010 (09962-01000, 09963-00600)
  - c. Tighten the 3 bolts with the specified torque.  
Torque: 15 Nm (153 kgf-cm, 11 ft. lbs.)
10. INSTALL FAN AND GENERATOR V BELT
11. INSPECT DRIVE BELT DEFLECTION AND TENSION
12. ADD ENGINE COOLANT

13. CHECK FOR ENGINE COOLANT LEAKS
14. INSTALL ENGINE UNDER COVER RH
15. INSTALL ENGINE UNDER COVER LH
16. INSTALL RADIATOR SUPPORT OPENING COVER