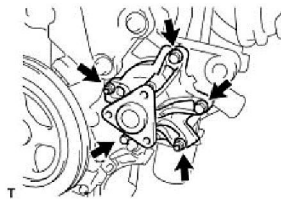


Water Pump: Service and Repair Installation

1NZ-FE COOLING: WATER PUMP:

INSTALLATION



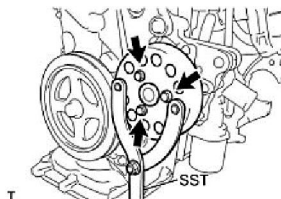
1. INSTALL WATER PUMP ASSEMBLY

- (a) Install the water pump assembly through a new gasket with the 3 bolts and 2 nuts.

Torque: 11 Nm (112 kgf-cm, 8.1 ft-lbf)

2. INSTALL WATER PUMP PULLEY

- (a) Provisionally install the water pump pulley with the 3 bolts.



- (b) Using SST, hold the water pump pulley.

SST: 09960-10010

09962-01000

09963-00700

- (c) Tighten the 3 bolts to the specified torque.

Torque: 15 Nm (153 kgf-cm, 11 ft-lbf)

3. INSTALL ENGINE MOUNTING INSULATOR SUB-ASSEMBLY RH (for Hatchback) See: Engine Lubrication/Oil Pump/Service and Repair/Installation

4. INSTALL ENGINE MOUNTING INSULATOR SUB-ASSEMBLY RH (for Sedan) See: Engine Lubrication/Oil Pump/Service and Repair/Installation

5. INSTALL GENERATOR ASSEMBLY

6. INSTALL FAN AND GENERATOR V BELT See: Drive Belts, Mounts, Brackets and Accessories/Drive Belt/Service and Repair/Installation

7. ADJUST FAN AND GENERATOR V BELT See: Drive Belts, Mounts, Brackets and Accessories/Drive Belt/Service and Repair/Installation

8. INSPECT FAN AND GENERATOR V BELT See: Drive Belts, Mounts, Brackets and Accessories/Drive Belt/Service and Repair/Installation

9. CONNECT CABLE TO NEGATIVE BATTERY TERMINAL

Torque: 5.4 Nm (55 kgf-cm, 48 in-lbf)

10. ADD ENGINE COOLANT See: Cooling System/Coolant/Service and Repair

11. CHECK FOR ENGINE COOLANT LEAKAGE See: Cooling System/Testing and Inspection

12. INSTALL ENGINE UNDER COVER RH

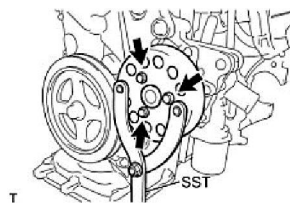
Water Pump: Service and Repair

Removal

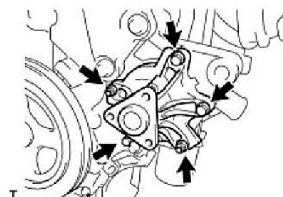
1NZ-FE COOLING: WATER PUMP:

REMOVAL

1. DISCONNECT CABLE FROM NEGATIVE BATTERY TERMINAL
2. REMOVE ENGINE COOLANT See: Cooling System/Coolant/Service and Repair
3. REMOVE ENGINE UNDER COVER RH
4. REMOVE FAN AND GENERATOR V BELT See: Drive Belts, Mounts, Brackets and Accessories/Drive Belt/Service and Repair/Removal
5. REMOVE GENERATOR ASSEMBLY
6. REMOVE ENGINE MOUNTING INSULATOR SUB-ASSEMBLY RH See: Engine Lubrication/Oil Pump/Service and Repair/Removal



7. REMOVE WATER PUMP PULLEY
 - (a) Using SST, hold the water pump pulley.
SST: 09960-10010
09962-01000
09963-00700
 - (b) Remove the 3 bolts and remove the water pump pulley.

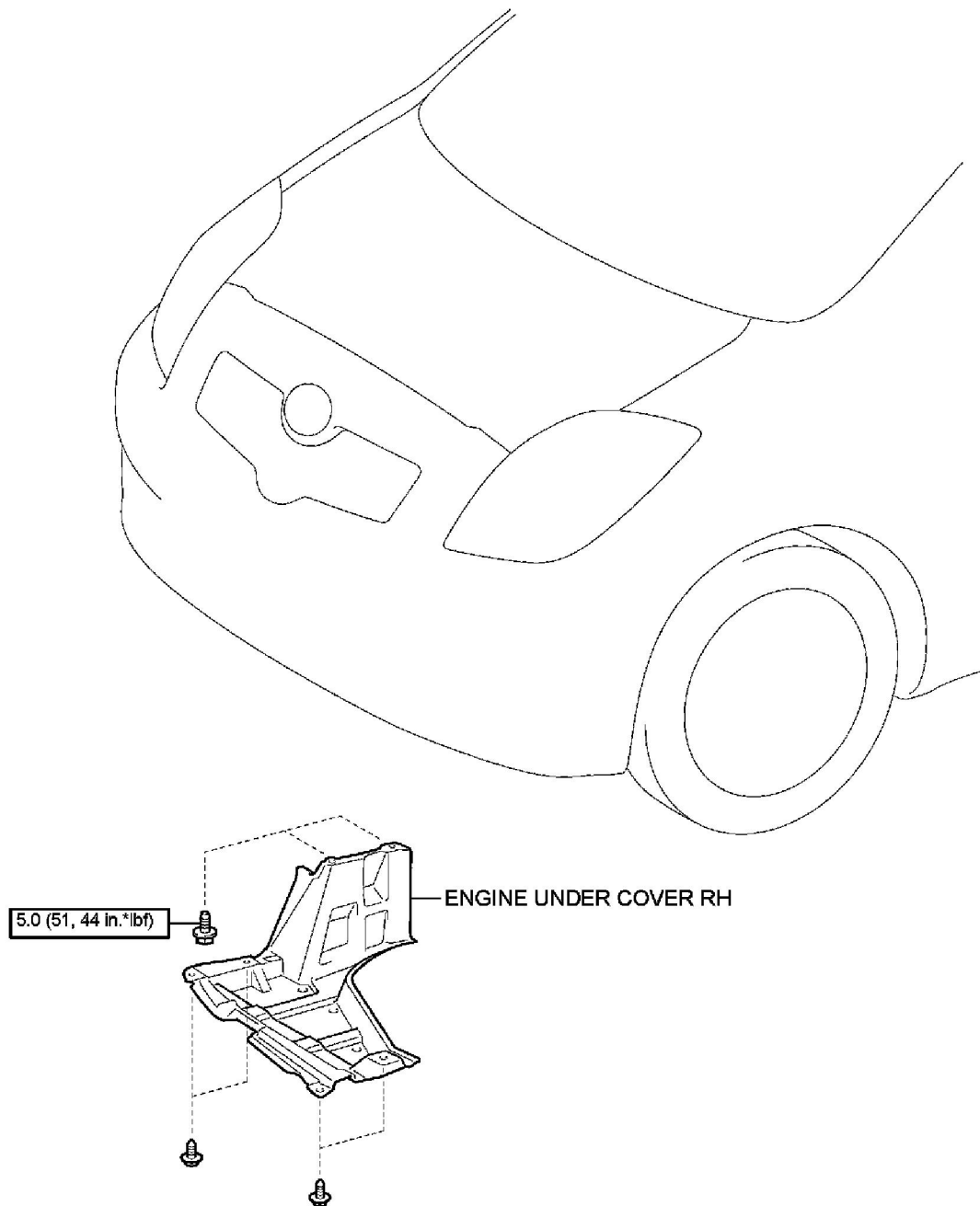


8. REMOVE WATER PUMP ASSEMBLY
 - (a) Remove the 3 bolts and 2 nuts and remove the water pump assembly and gasket.

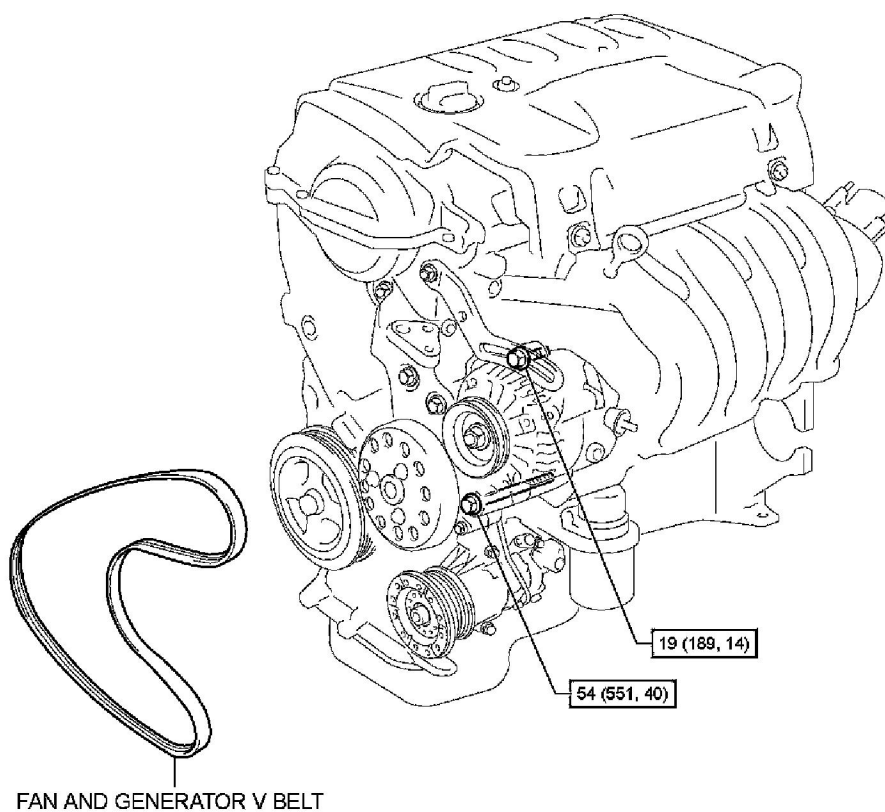
Water Pump: Service and Repair Components

1NZ-FE COOLING: WATER PUMP:

COMPONENTS



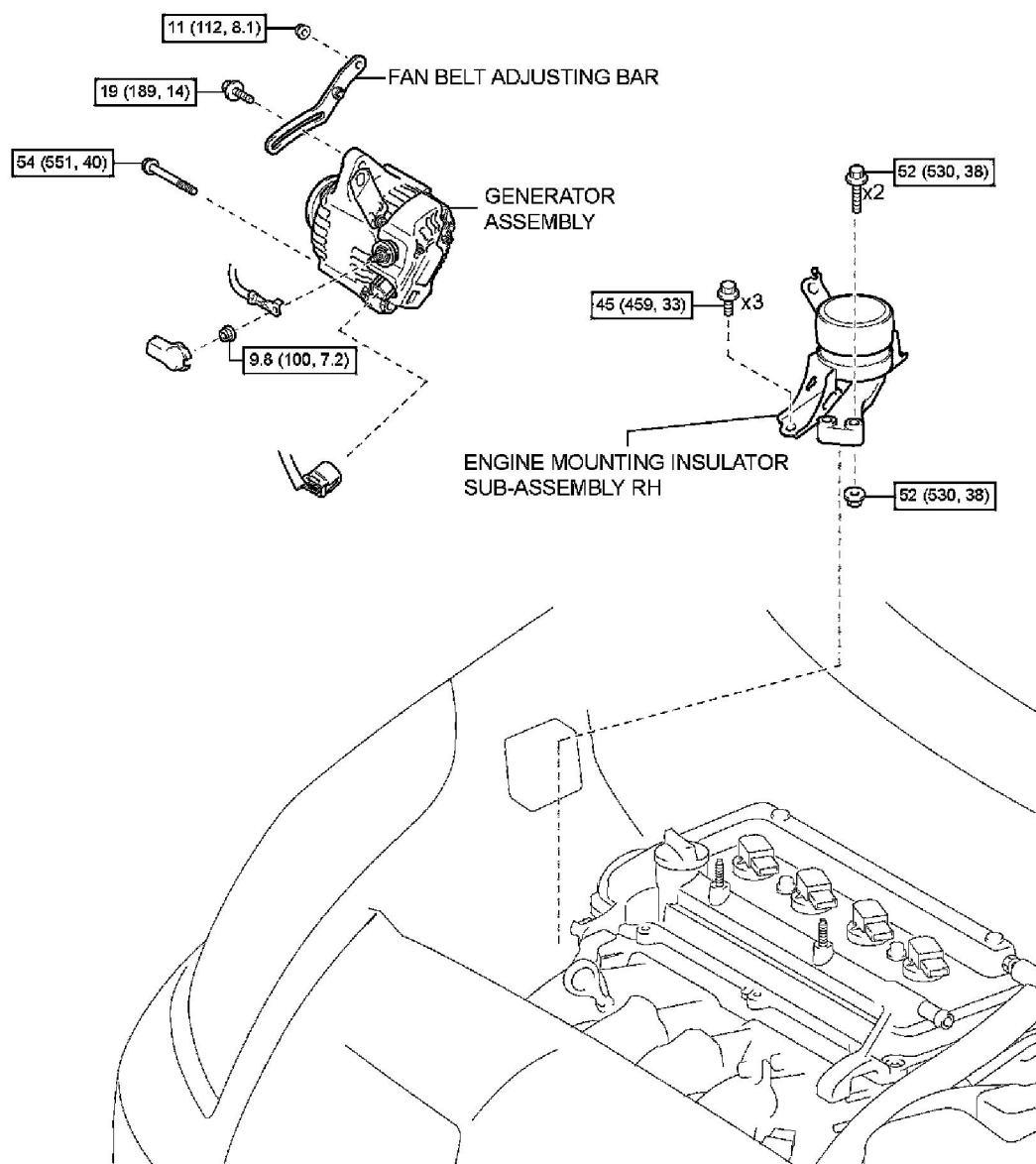
[N*m (kgf*cm, ft.*lbf)] : Specified torque



N*m (kgf*cm, ft.*lbf) : Specified torque

T

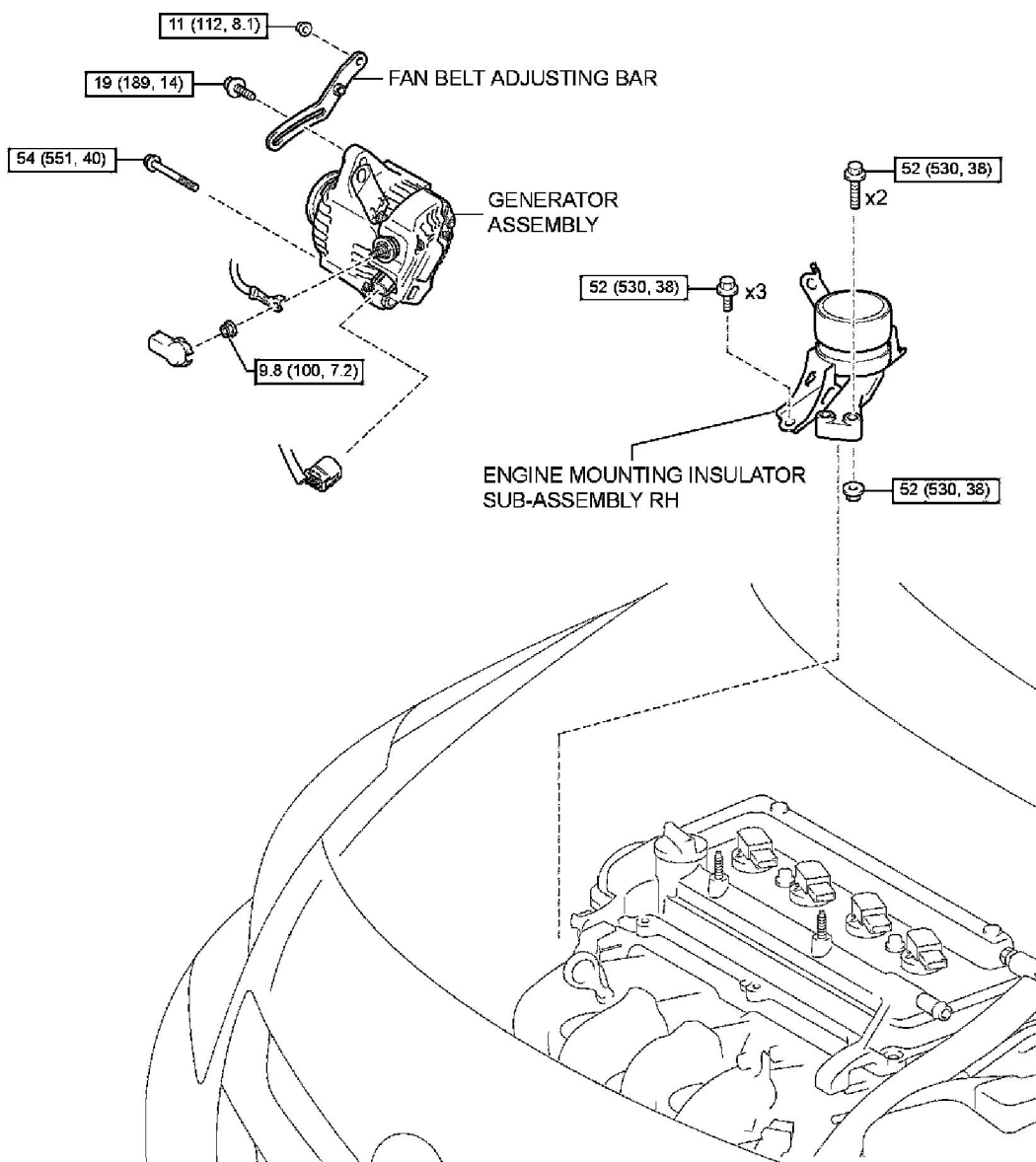
for Hatchback:



N*m (kgf*cm, ft.*lbf) : Specified torque

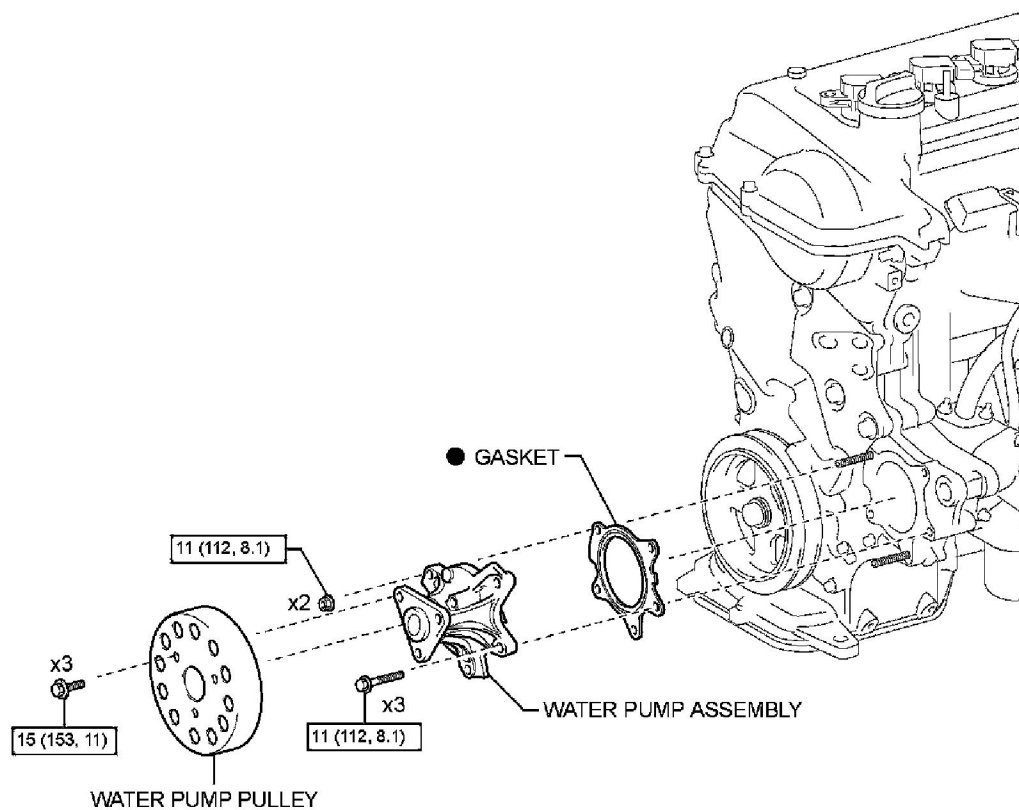
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for Sedan:



N*m (kgf*cm, ft*lb) : Specified torque

T



[N*m (kgf*cm, ft.*lbf)] : Specified torque

● Non-reusable part

T