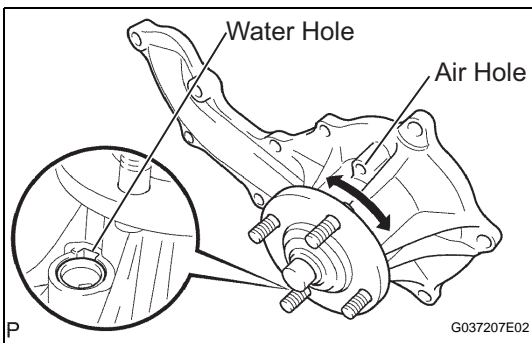
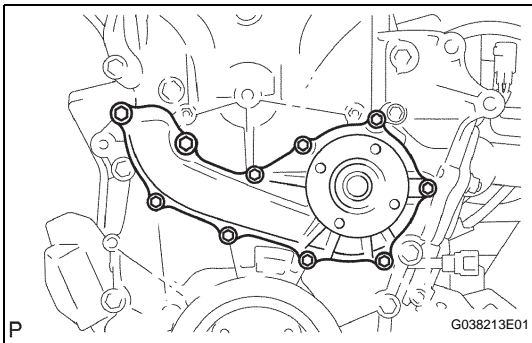
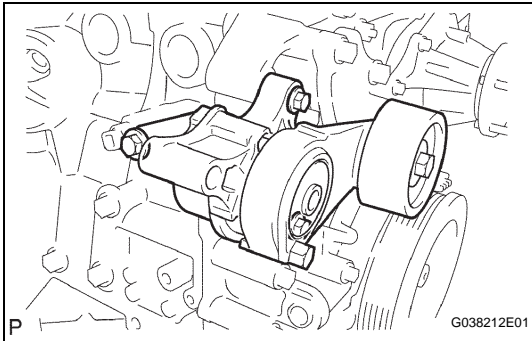


WATER PUMP

REMOVAL

1. **DISCONNECT CABLE FROM NEGATIVE BATTERY TERMINAL**
2. **REMOVE NO. 1 ENGINE UNDER COVER SUB-ASSEMBLY (for Pre Runner and 4WD Type)**
 - (a) Remove the 4 bolts, then remove the engine under cover No. 1.
3. **DRAIN ENGINE COOLANT (See page CO-3)**
4. **REMOVE RADIATOR SUPPORT TO FRAME SEAL LH (See page CO-12)**
5. **REMOVE FAN SHROUD (See page CO-13)**
6. **REMOVE GENERATOR ASSEMBLY (See page CH-7)**
7. **REMOVE V-RIBBED BELT TENSIONER ASSEMBLY**
 - (a) Remove the 3 bolts, then remove the V-ribbed belt tensioner.



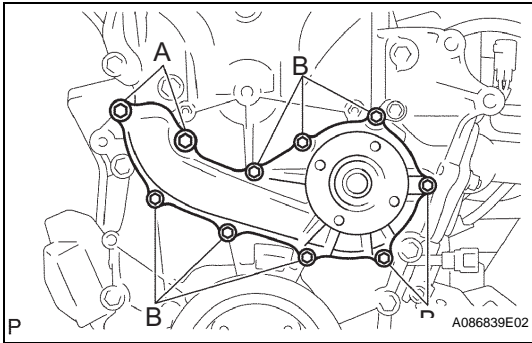
8. **REMOVE WATER PUMP ASSEMBLY**
 - (a) Remove the 10 bolts, then remove the water pump and gasket.

CO

INSPECTION

1. **INSPECT WATER PUMP ASSEMBLY**
 - (a) Visually check the air hole and water hole for coolant leakage. If any leakage is found, replace the water pump.
 - (b) Turn the pulley seat and check that the water pump bearing moves smoothly and does not make a noise. If necessary, replace the water pump.

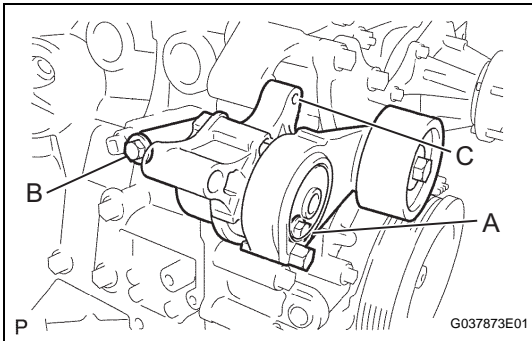
INSTALLATION



1. INSTALL WATER PUMP ASSEMBLY

- (a) Install a new gasket, then install the water pump with the 10 bolts.

Torque: 21 N*m (214 kgf*cm, 15 ft.*lbf) for bolt A
9 N*m (92 kgf*cm, 80 in.*lbf) for bolt B



2. INSTALL V-RIBBED BELT TENSIONER ASSEMBLY

- (a) Provisionally install the V-ribbed belt tensioner with bolts A and B.

- (b) Tighten bolt B.

Torque: 40 N*m (408 kgf*cm, 30 ft.*lbf)

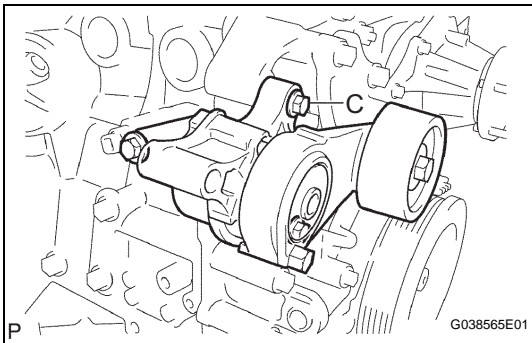
- (c) Tighten bolt A.

Torque: 21 N*m (214 kgf*cm, 16 ft.*lbf)

- (d) Check that the bolt holes of the V-ribbed belt tensioner and timing chain cover are aligned, and install bolt C.

- (e) Tighten bolt C.

Torque: 43 N*m (434 kgf*cm, 32 ft.*lbf)



3. INSTALL GENERATOR ASSEMBLY

(See page [CH-13](#))

4. INSTALL FAN SHROUD (See page [CO-18](#))

5. INSTALL RADIATOR SUPPORT TO FRAME SEAL LH (See page [CO-19](#))

6. CONNECT CABLE TO NEGATIVE BATTERY TERMINAL

Torque: 3.9 N*m (40 kgf*cm, 35 in.*lbf)

7. ADD ENGINE COOLANT (See page [CO-3](#))

8. CHECK FOR ENGINE COOLANT LEAKAGE (See page [CO-2](#))

9. INSTALL NO. 1 ENGINE UNDER COVER SUB-ASSEMBLY (for Pre Runner and 4WD Type)

- (a) Install the engine under cover No. 1 with the 4 bolts.

Torque: 30 N*m (306 kgf*cm, 22 ft.*lbf)