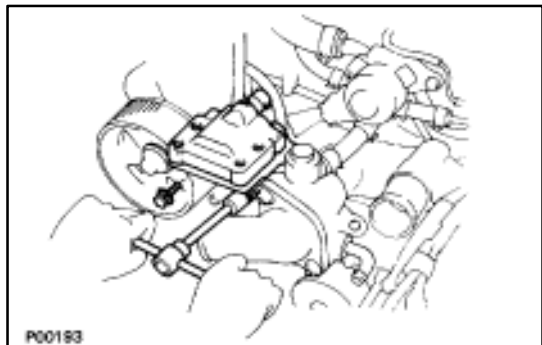
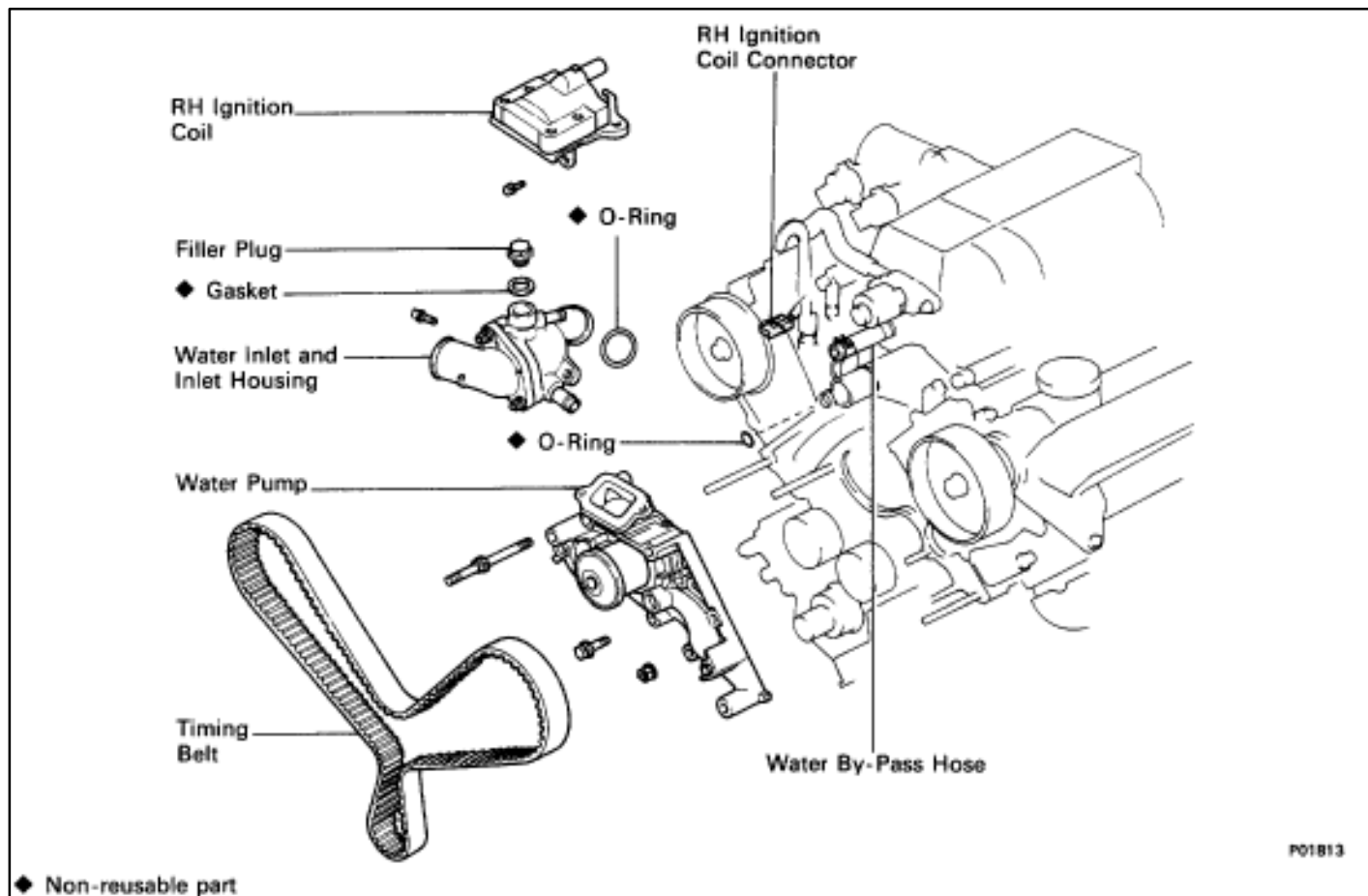
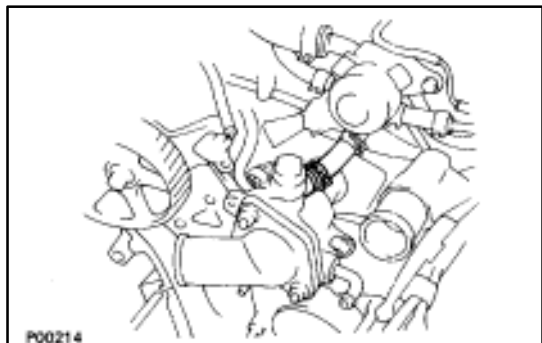


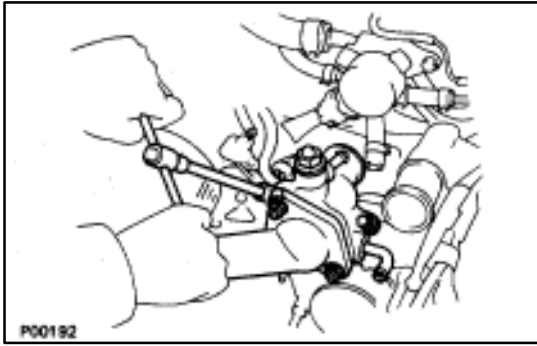
# WATER PUMP COMPONENTS FOR REMOVAL AND INSTALLATION



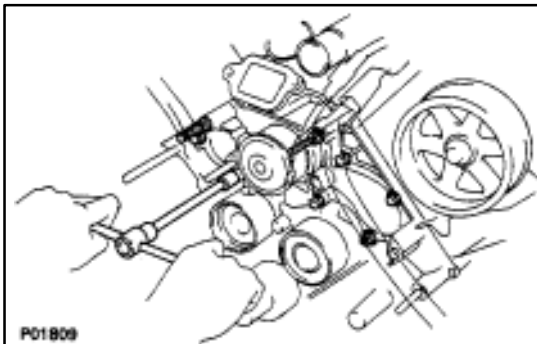
## REMOVAL OF WATER PUMP

1. **REMOVE TIMING BELT**  
(See steps 1 to 35 on pages [EM-35](#) to 43)
2. **REMOVE RH IGNITION COIL**
  - (a) Disconnect the ignition coil connector.
  - (b) Remove the two bolts and ignition coil.
3. **REMOVE WATER INLET AND INLET HOUSING**
  - (a) Disconnect the water by-pass hose from the water inlet housing.



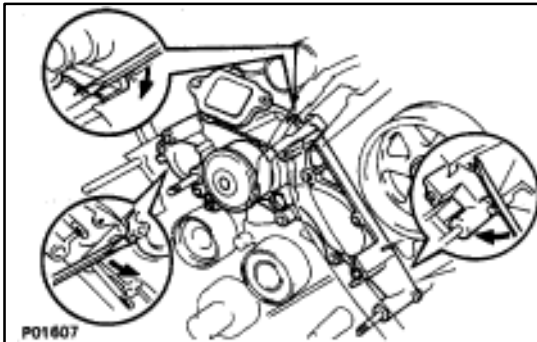


- (b) Remove the two bolts holding the water inlet housing to the water pump.
- (c) Pull out the water inlet and inlet housing assembly.
- (d) Remove the O-ring from the water inlet housing.

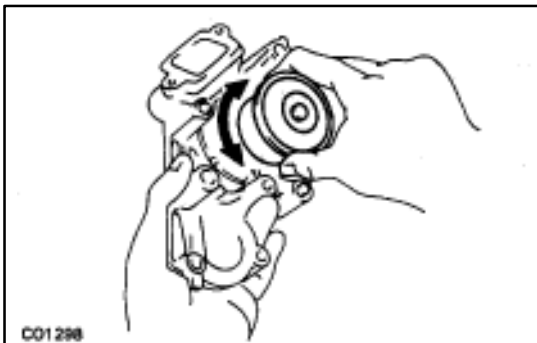


#### 4. REMOVE WATER PUMP

- (a) Remove the five mounting bolts, two stud bolts and nut.



- (b) Remove the water pump by prying the portions between the water pump and cylinder block with a screwdriver.
- (c) Remove the O-ring from the water by-pass pipe.



## INSPECTION OF WATER PUMP

### INSPECT WATER PUMP

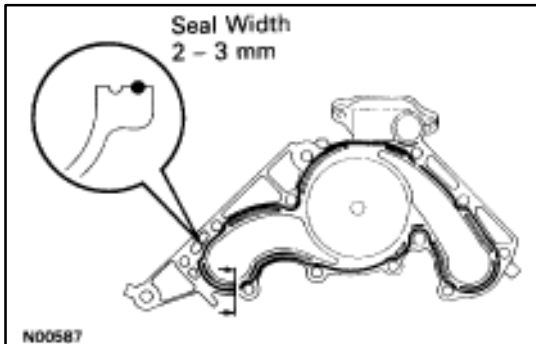
Turn the pulley and check that the water pump bearing moves smoothly and quietly.

## INSTALLATION OF WATER PUMP

(See Components on page [CO-8](#))

### 1. INSTALL WATER PUMP

- (a) Remove any old packing (FIPG) material and be careful not to drop any oil on the contact surfaces of the water pump and cylinder block.
  - Using a razor blade and gasket scraper, remove all the old packing (FIPG) material from the gasket surfaces and sealing groove.
  - Thoroughly clean all components to remove all the loose material.
  - Using a non-residue solvent, clean both sealing surfaces.
- (b) Apply seal packing to the sealing groove of the water pump as shown in the illustration.



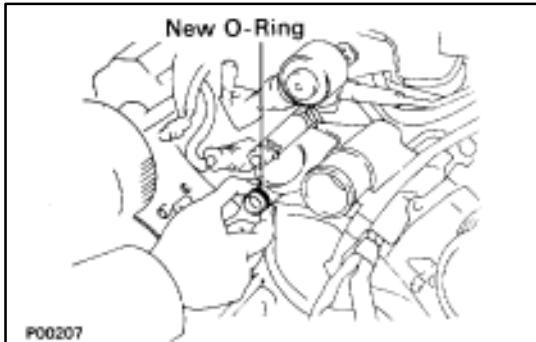
**Seal packing: Part No. 08826-00100 or equivalent**

- Install a nozzle that has been cut to a 2–3 mm (0.08–0.12 in.) opening.

**HINT:** Avoid applying an excessive amount to the surface.

- Parts must be assembled within 5 minutes of application. Otherwise the material must be removed and reapplied.
- Immediately remove nozzle from the tube and reinstall cap.

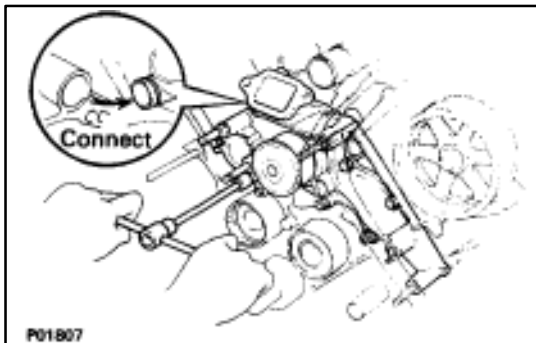
- (c) Install a new O-ring to the water by-pass pipe end.
- (d) Apply soapy water to the O-ring.



- (e) Connect the water by-pass pipe end to water pump.
- (f) Install the water pump with the five bolts, two stud bolts and nut. Uniformly tighten the bolts, stud bolts and nut.

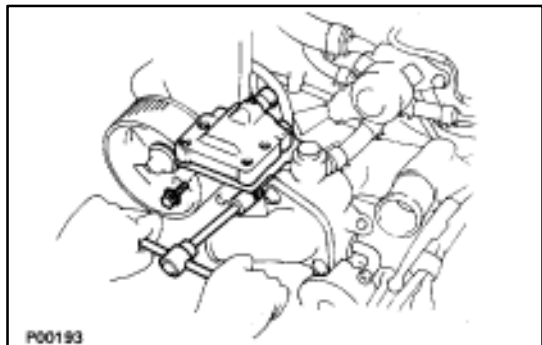
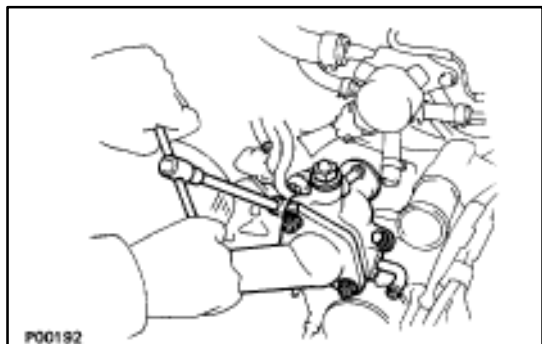
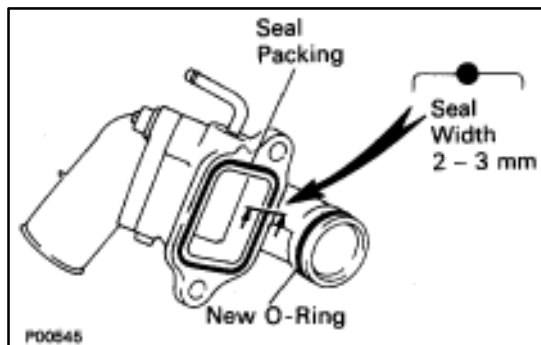
**Torque: 18 N·m (185 kgf·cm, 13 ft·lbf)**

**HINT:** Use bolts 30 mm (1.18 in.) in length.



### 2. INSTALL WATER INLET AND INLET HOUSING

- (a) Remove any old packing (FIPG) material and be careful not to drop any oil on the contact surfaces of the water inlet housing and water pump.
  - Using a razor blade and gasket scraper, remove all the old packing (FIPG) material from the gasket surfaces and sealing groove.
  - Thoroughly clean all components to remove all the loose material.
  - Using a non-residue solvent, clean both sealing surfaces.



- (b) Apply seal packing to the sealing groove of the water inlet housing as shown in the illustration.

**Seal packing: Part No. 08826-00100 or equivalent**

- Install a nozzle that has been cut to a 2–3 mm (0.08–0.12 in.) opening.

HINT: Avoid applying an excessive amount to the surface.

- Parts must be assembled within 5 minutes of application. Otherwise the material must be removed and reapplied.
- Immediately remove nozzle from the tube and reinstall cap.

- (c) Install a new O-ring to the water inlet housing.

- (d) Apply soapy water to the O-ring.

- (e) Push the water inlet housing end into water pump hole.

- (f) Install the water inlet and inlet housing assembly with the two bolts. alternately tighten the bolts.

**Torque: 18 N·m (185 kgf·cm, 13 ft·lbf)**

HINT: Use bolts 25 mm (0.98 in.) in length.

- (g) Connect the water by-pass hose to the water inlet housing.

### 3. INSTALL RH IGNITION COIL

- (a) Install the ignition coil with the two bolts.  
(b) Connect the ignition coil connector.

### 4. INSTALL TIMING BELT

(See steps 4 to 43 on pages [EM-47](#) to 57)