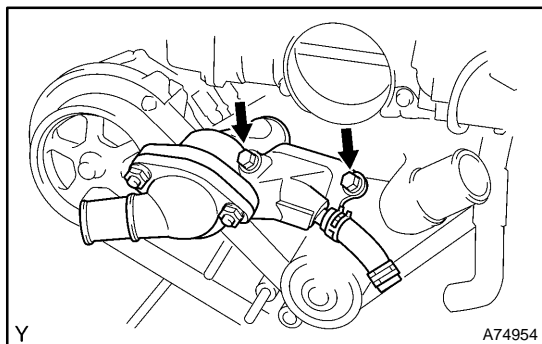


WATER PUMP ASSY (2UZ-FE)

REPLACEMENT

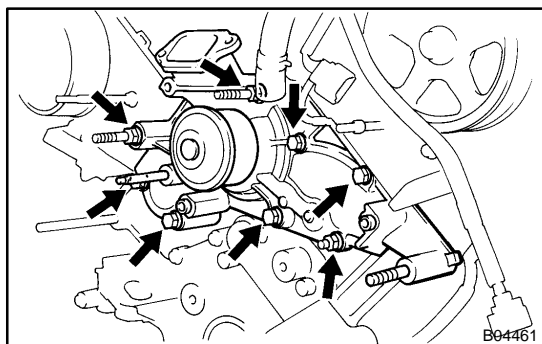
160F2-01

1. REMOVE TIMING BELT (See page 16-5)



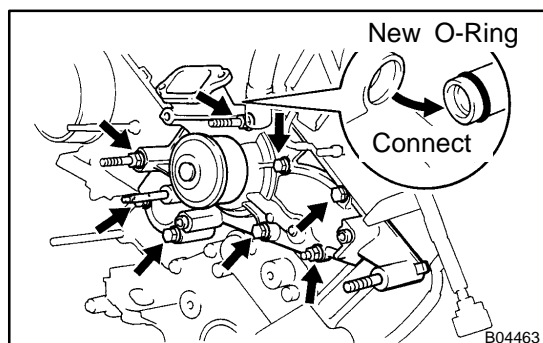
2. REMOVE WATER INLET HOUSING

- Disconnect the water bypass hose from the water inlet housing.
- Remove the 2 bolts holding the water inlet housing to the water pump.
- Disconnect the water inlet housing from the front water bypass joint, and remove the water inlet housing w/ water inlet.



3. REMOVE WATER PUMP ASSY

- Remove the 5 bolts, 2 stud bolts, nut, water pump and gasket.
- Remove the O-ring from the water bypass pipe.



4. INSTALL WATER PUMP ASSY

- Install a new O-ring to the water bypass pipe end.
- Apply soapy water to the O-ring.
- Connect the water pump to the water bypass pipe end.
- Install the water pump and new gasket with the 5 bolts, 2 stud bolts and nut. Uniformly tighten the bolts, stud bolts and nut in several passes.

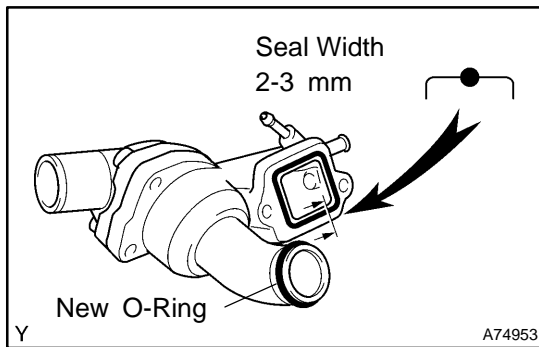
Torque:

Bolt 21 N·m (215 kgf·cm, 16 ft·lbf)

Stud bolt and nut 18 N·m (185 kgf·cm, 13 ft·lbf)

5. INSTALL WATER INLET HOUSING

- 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 water inlet housing as shown in the illustration.

Seal packing: Part No. 08826-00100 or equivalent

- (1) Install a nozzle that has been cut to a 2 - 3 mm (0.08 - 0.12 in.) opening.
 - (2) Parts must be assembled within 5 minutes of application. Otherwise the material must be removed and reapplied.
 - (3) Immediately remove nozzle from the tube and reinstall cap.
- (c) Install a new O-ring to the water inlet housing.
 - (d) Apply soapy water on the O-ring.
 - (e) Attach the water inlet housing end to the front water bypass joint hole.
 - (f) Install the water inlet and housing assembly with the 2 bolts. Alternately tighten the bolts.

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

6. INSTALL TIMING BELT (See page 16-5)