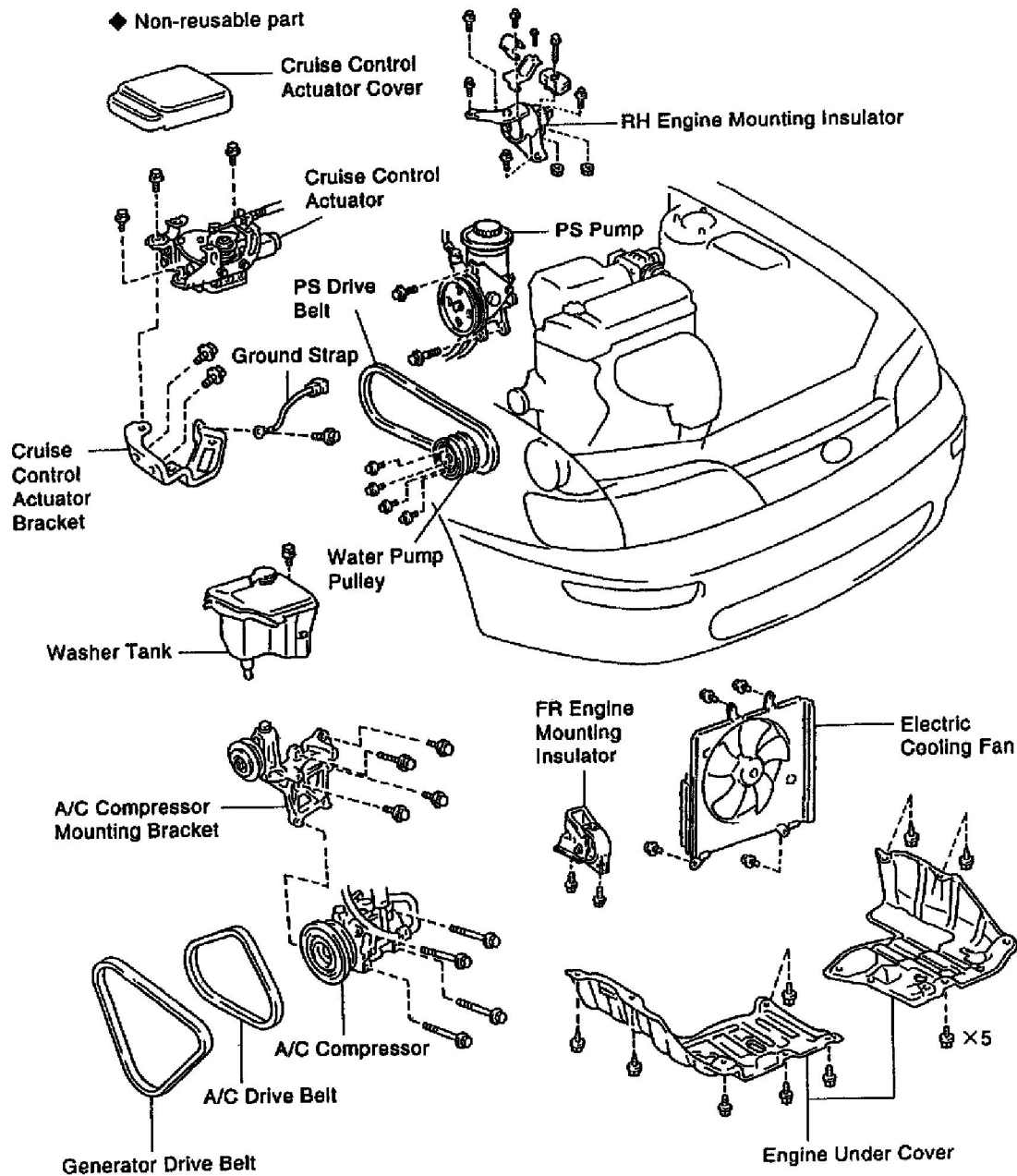
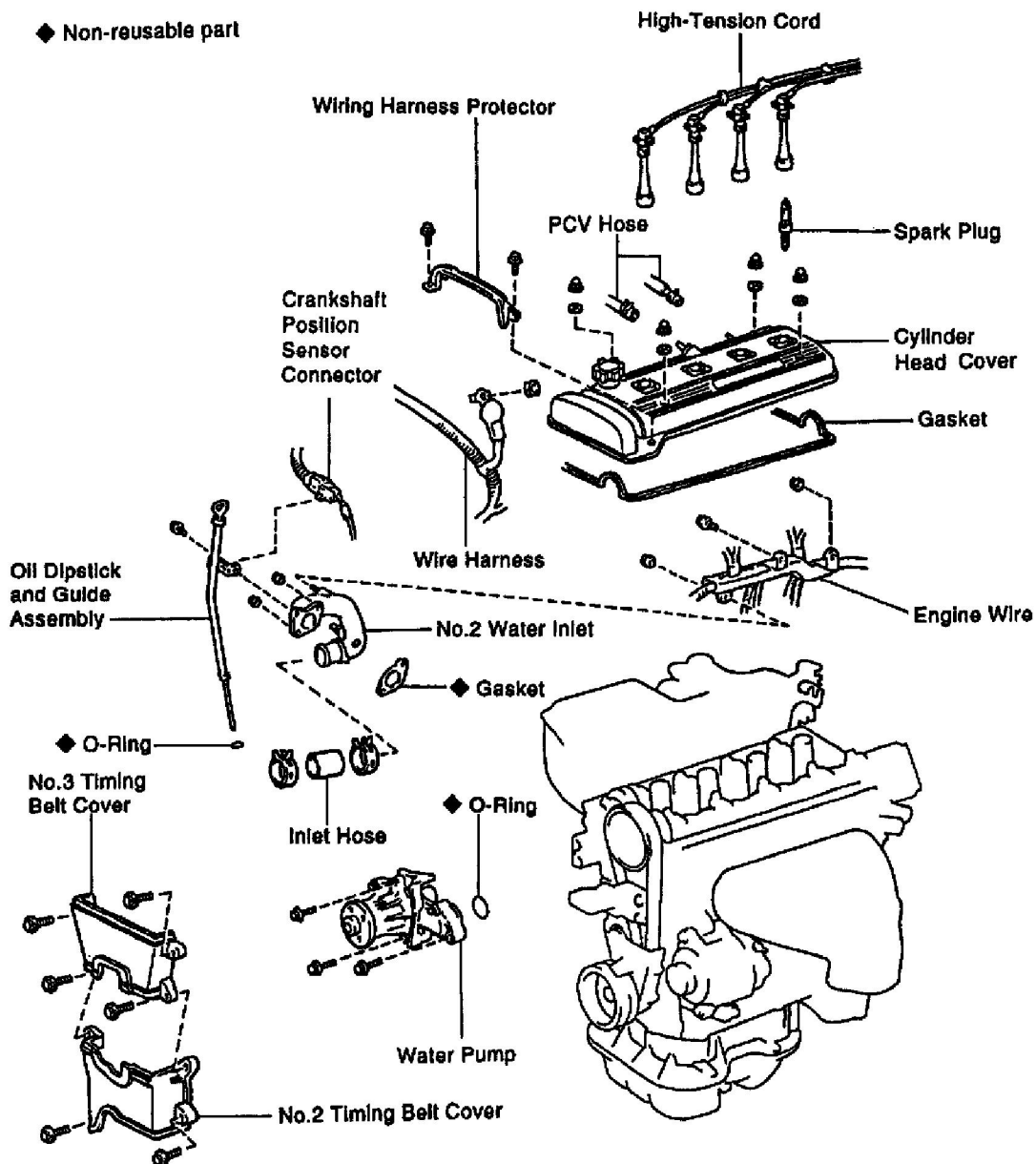


Water Pump: Service and Repair

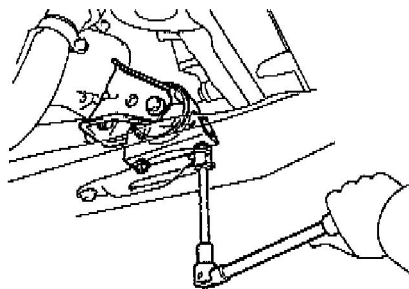
COMPONENTS FOR REMOVAL AND INSTALLATION



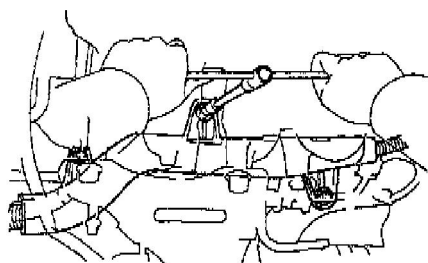


REMOVAL

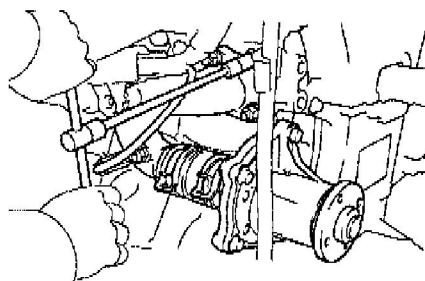
1. Drain engine coolant.



2. Remove RH engine mounting insulator.
3. Remove No. 2 and No. 3 timing belt covers.

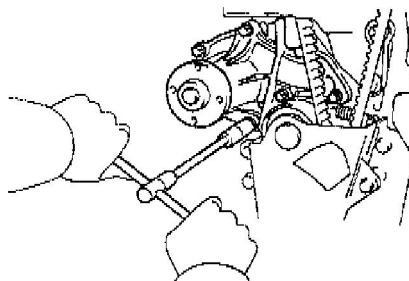


4. Remove front engine mounting insulator as follows:
 - a. Remove the hole cover.
 - b. Remove the 2 bolts from the mounting.
 - c. Remove the nut, through-bolt and front engine mounting insulator.
5. Remove electric cooling fan.
6. Disconnect engine wire remove the bolt and 2 nuts, and disconnect the engine wire.
7. Remove water pump as follows:



P07595

- a. Disconnect the crankshaft position sensor connector from the dipstick guide.
- b. Remove the mounting bolt and pull out the dipstick guide and gauge.
- c. Disconnect the water temperature sender gauge connector.
- d. Remove the 2 nuts and No.2 water inlet from the water inlet hose.

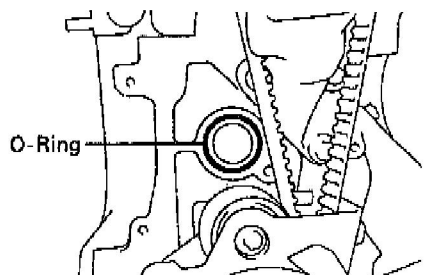


- e. Remove the 3 bolts and water pump.

CAUTION: Be careful not to get coolant on the timing belt.

INSTALLATION

1. Install water pump as follows:



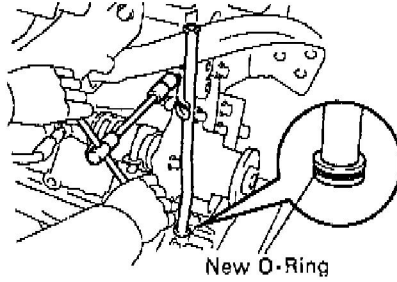
P07836

- a. Place a new O-ring on the block.
- b. Install the pump with the 3 bolts. Torque the bolts to **14 Nm (10 ft. lbs.)**.
- c. Connect the inlet hose to the water pump, and install the water inlet No.2 to the cylinder head with the 2 nuts. Torque to **14.5 Nm (11 ft.**

lbs.).

d. Connect the water temperature sender gauge connector.

2. Install oil dipstick guide and dipstick as follows:



PG7404

a. Install a new O-ring on the oil dipstick guide.

b. Apply small amount of engine oil to the O-ring.

c. Push in the oil dipstick guide with the O-ring.

d. Install the mounting bolt. Torque to **9.3 Nm (82 inch lbs.)**.

e. Connect the crankshaft position sensor connector to the dipstick guide.

3. Connect engine wire. Connect the engine wire with the bolt and 2 nuts.

4. Install electric cooling fan.

5. Install front engine mounting insulator.

a. Install the front engine mounting insulator, through-bolt and nut. Torque to **87 Nm (64 ft. lbs.)**.

b. Install the 2 bolts to the mounting. Torque to **64 Nm (47 ft. lbs.)**.

c. Install the hole cover.

6. Install No. 2 and No. 3 timing belt covers.

7. Install RH engine mounting insulator.

8. Fill radiator with engine coolant.

9. Start engine and check for leaks.