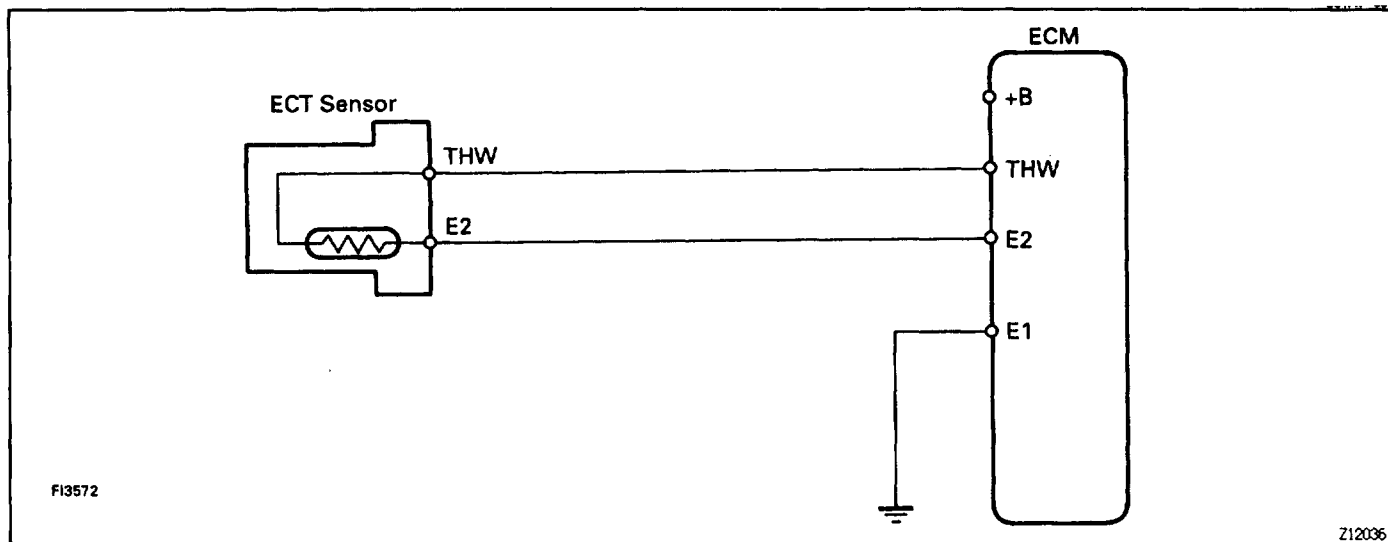


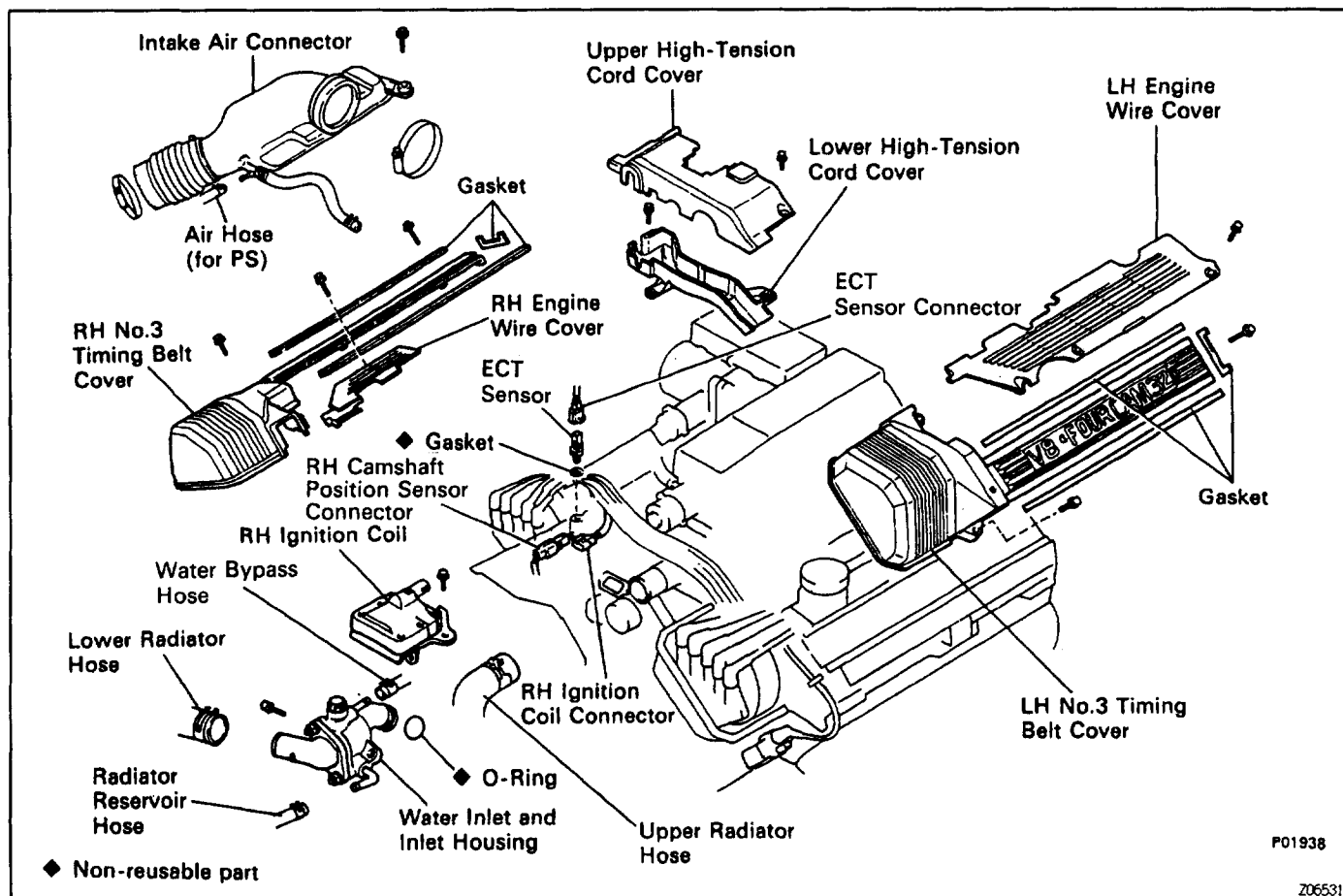
# ENGINE COOLANT TEMPERATURE (ECT) SENSOR

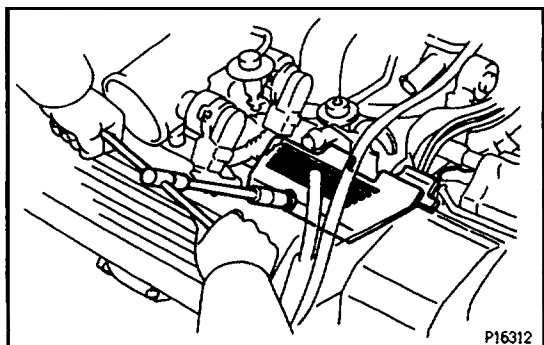
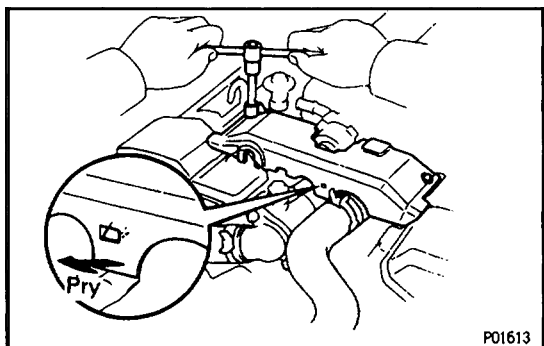
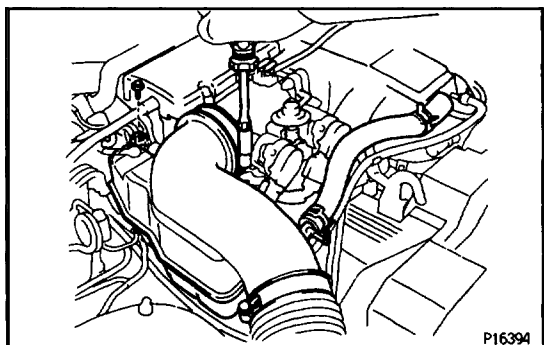
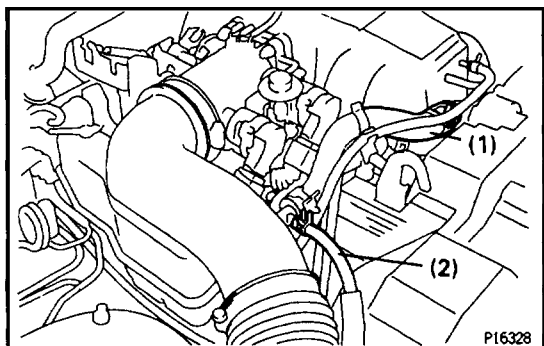
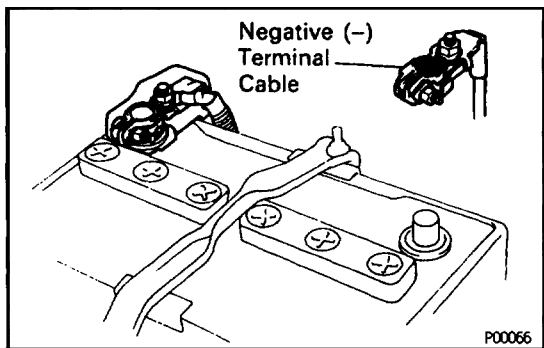
EG1PK-03



## COMPONENTS FOR REMOVAL AND INSTALLATION

EG26W-02





## ECT SENSOR INSPECTION

EG26X-03

(See Components for Removal and Installation)

### 1. DISCONNECT NEGATIVE (-) TERMINAL CABLE FROM BATTERY

**CAUTION:** Work must be started after 90 seconds from the time the ignition switch is turned to the "LOCK" position and the negative (-) terminal cable is disconnected from the battery.

### 2. DRAIN ENGINE COOLANT

### 3. REMOVE INTAKE AIR CONNECTOR

- (a) Disconnect the following hoses:
  - (1) Air hose from IAC valve
  - (2) Air hose (from air control valve on PS pump) from intake air connector

- (b) Remove the bolt holding the intake air connector to the cylinder head cover.

- (c) Loosen the 2 hose clamps.

- (d) Disconnect the intake air connector from the throttle body and air cleaner hose, and remove the intake air connector.

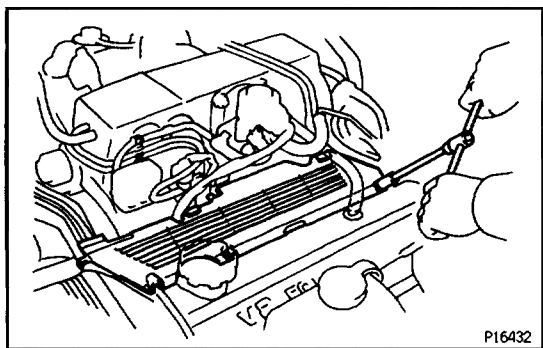
### 4. REMOVE UPPER HIGH-TENSION CORD COVER

- (a) Remove the 2 bolts.

- (b) Disconnect the front side claw groove of the upper cord cover from the claw of lower cord cover, and remove the upper cord cover.

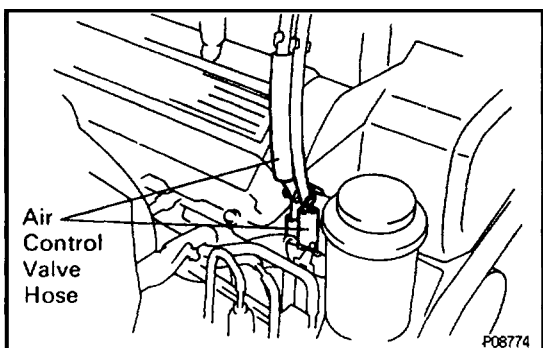
### 5. REMOVE RH ENGINE WIRE COVER

Remove the bolt and engine wire cover.



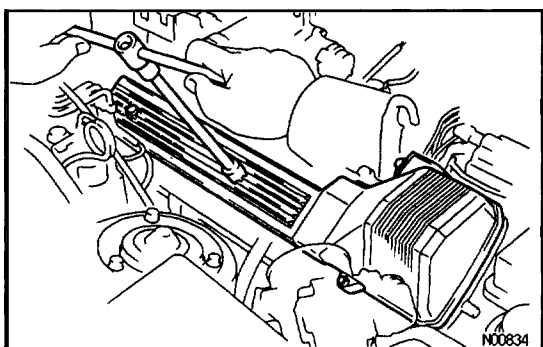
#### 6. REMOVE LH ENGINE WIRE COVER

Remove the 2 bolts and engine wire cover.

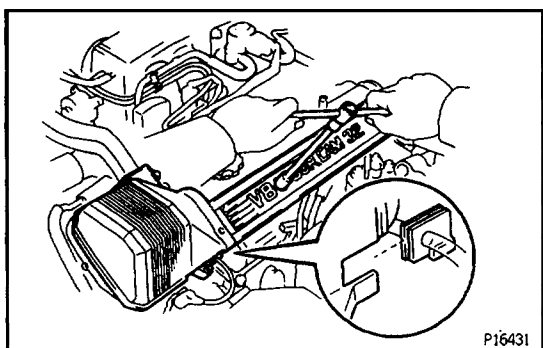


#### 7. REMOVE RH NO.3 TIMING BELT COVER

(a) Disconnect the 2 air control valve hoses.



(b) Remove the 4 bolts, timing belt cover and 3 gaskets.

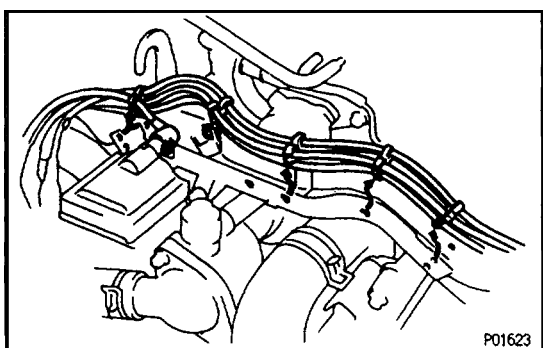


#### 8. REMOVE LH NO.3 TIMING BELT COVER

(a) Remove the 4 bolts.

(b) Disconnect the cord grommet from the timing belt cover, and remove the timing belt cover and three gaskets.

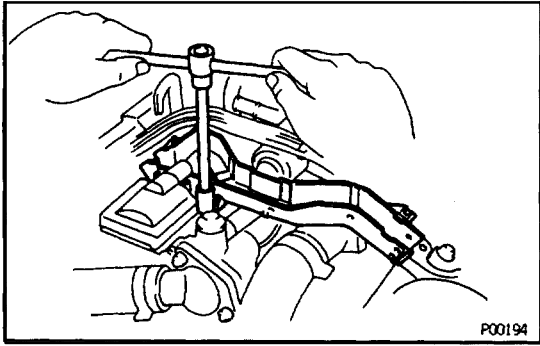
(c) Remove the cord grommet from the high-tension cord.



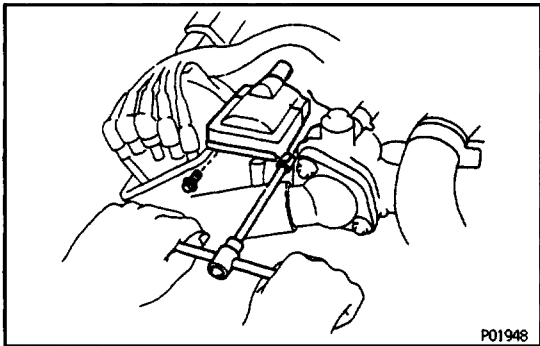
#### 9. REMOVE LOWER HIGH-TENSION CORD COVER

(a) Disconnect the high-tension cord from the RH ignition coil.

(b) Disconnect the high-tension cords from the high-tension cord cover.

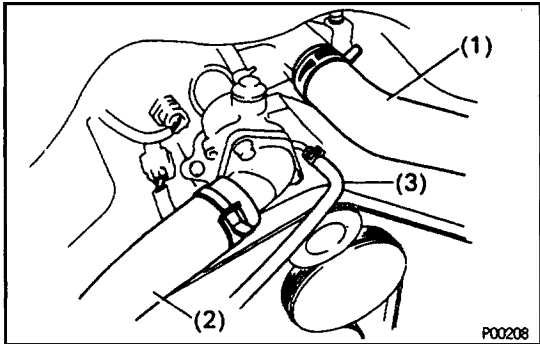


- (c) Remove the bolt and cord cover.



#### 10. REMOVE RH IGNITION COIL

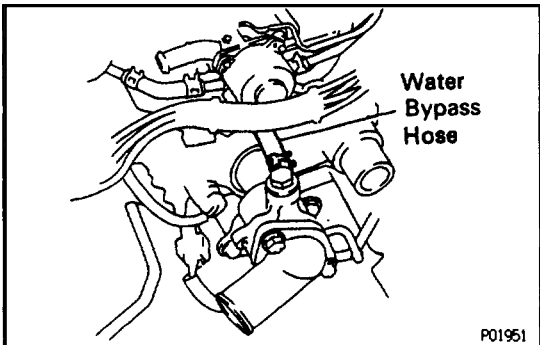
- (a) Disconnect the ignition coil connector.  
 (b) Remove the 2 bolts, and disconnect the ignition coil.  
 (c) Except Calif.:  
 Disconnect the camshaft position sensor connector from the ignition coil bracket.



#### 11. DISCONNECT HOSES

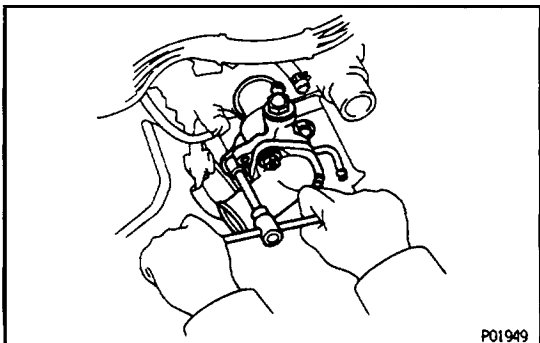
Disconnect the following hoses:

- (1) Upper radiator hose from front water bypass joint.  
 (2) Lower radiator hose from water inlet  
 (3) Radiator reservoir hose from water inlet housing

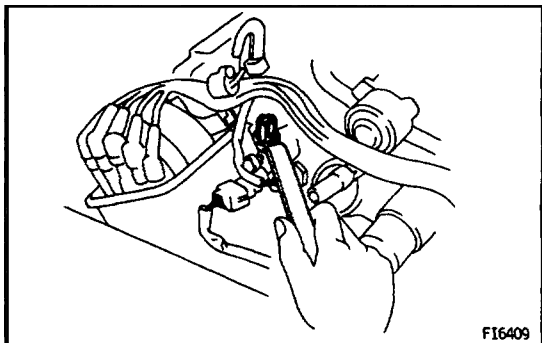


#### 12. REMOVE WATER INLET AND INLET HOUSING

- (a) Disconnect the water bypass hose from the water inlet housing.

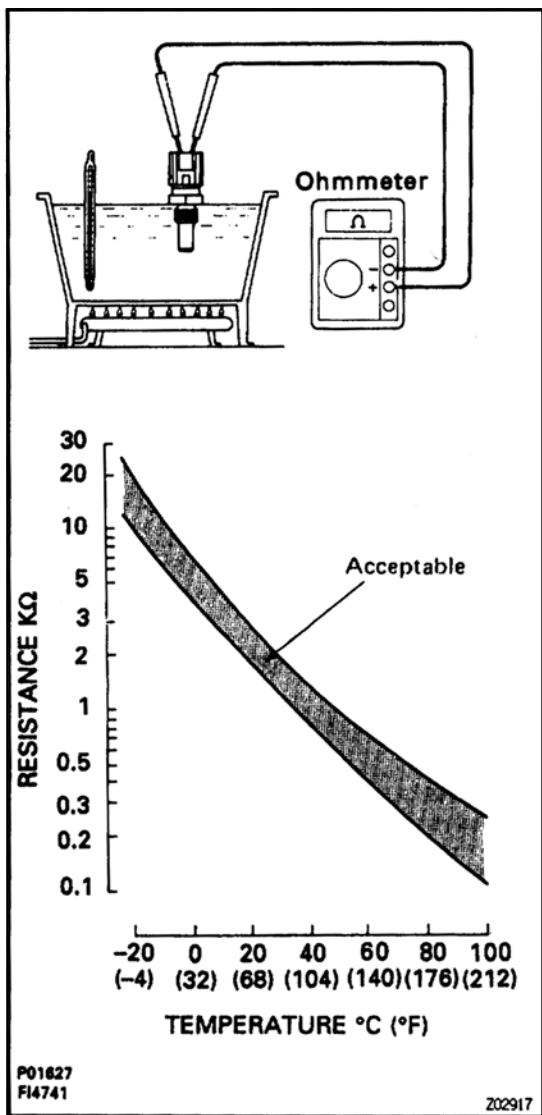


- (b) Remove the 2 bolts holding the water inlet housing to the water pump.  
 (c) Pull out the water inlet and inlet housing assembly.  
 (d) Remove the O-ring from the water inlet housing.



### 13. REMOVE ECT SENSOR

- (a) Disconnect the ECT sensor connector.
- (b) Remove the ECT sensor and gasket.



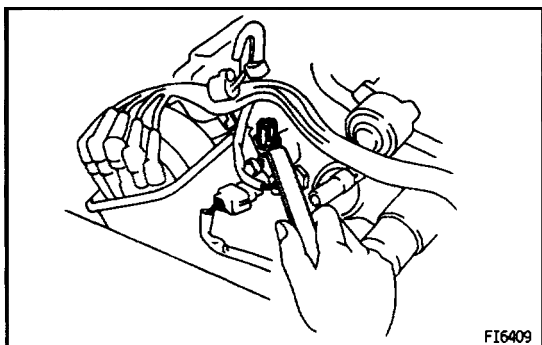
### 14. INSPECT ECT SENSOR

Using an ohmmeter, measure the resistance between the terminals.

**Resistance:**

**Refer to the chart graph**

If the resistance is not as specified, replace the sensor.



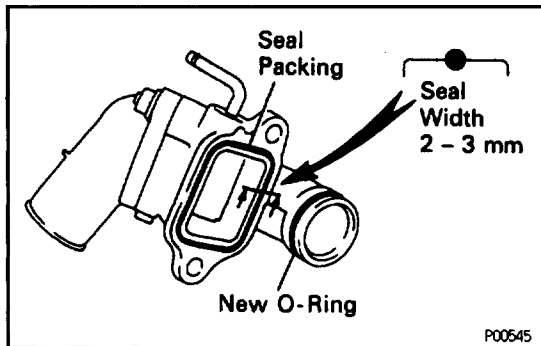
### 15. REINSTALL ECT SENSOR

- (a) Install a new gasket to the ECT sensor.
- (b) Install the ECT sensor.  
**Torque: 20 N·m (200 kgf·cm, 14 ft.lbf)**
- (c) Connect the ECT sensor connector.

**16. 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.

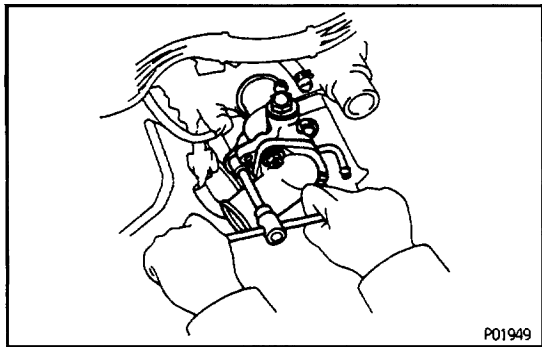


- (b) Apply seal packing to the sealing groove of water inlet housing as shown in the illustration.

**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.
- 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.

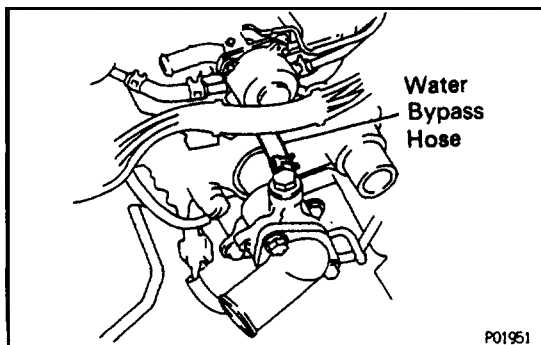
- (c) Install a new O-ring to the water inlet housing.  
 (d) Apply soapy water on the O-ring.



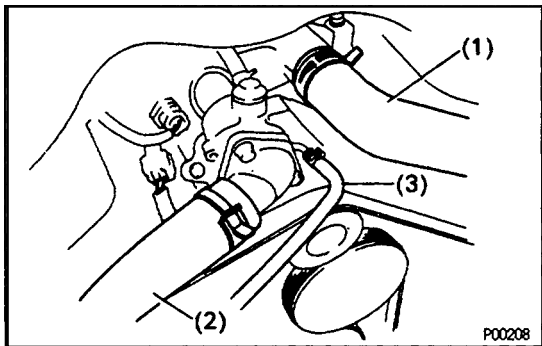
- (e) Push the water inlet housing end into the water pump hole.  
 (f) Install the water inlet and housing assembly with the 2 bolts. Alternately tighten the bolts.

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

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

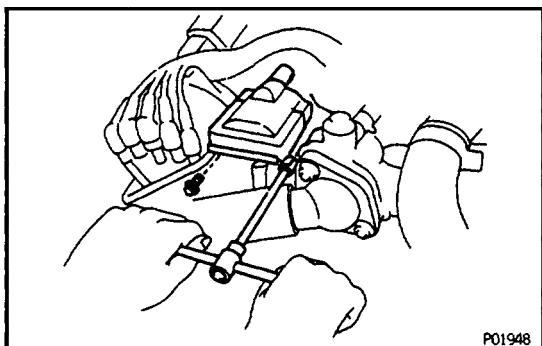


- (g) Connect the water bypass hose to the IAC valve.

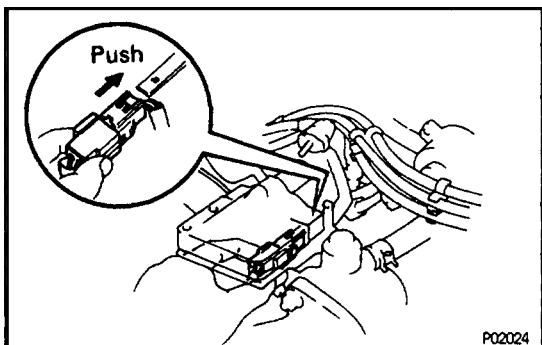
**17. RECONNECT HOSES**

Connect the following hoses:

- (1) Upper radiator hose to front water bypass joint
- (2) Lower radiator hose to water inlet
- (3) Radiator reservoir hose to water inlet housing

**18. REINSTALL RH IGNITION COIL**

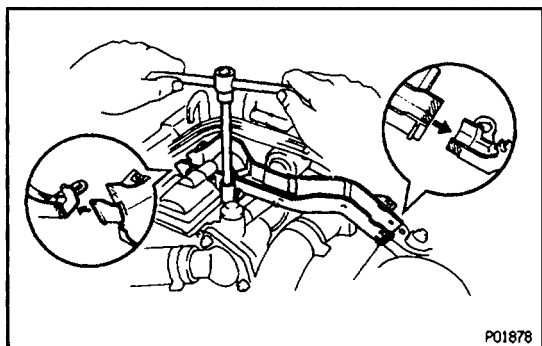
- (a) Install the ignition coil with the 2 bolts.



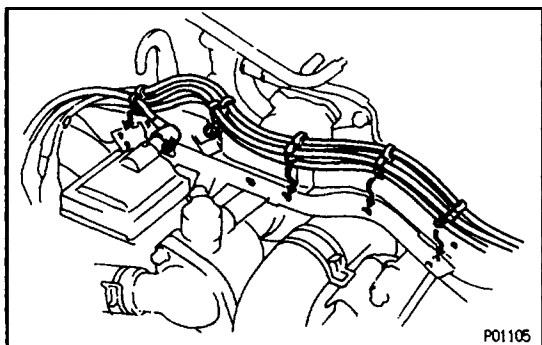
- (b) Except Calif.:

Install the camshaft position sensor connector to the ignition coil bracket.

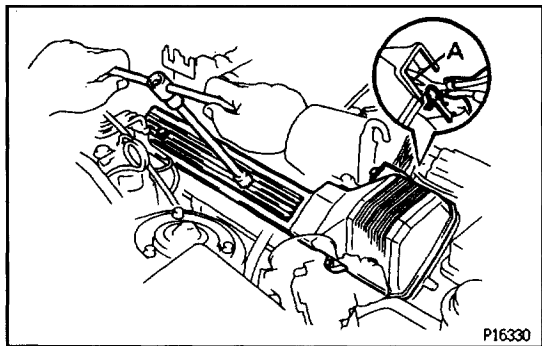
- (c) Connect the ignition coil connector.

**19. REINSTALL LOWER HIGH-TENSION CORD COVER**

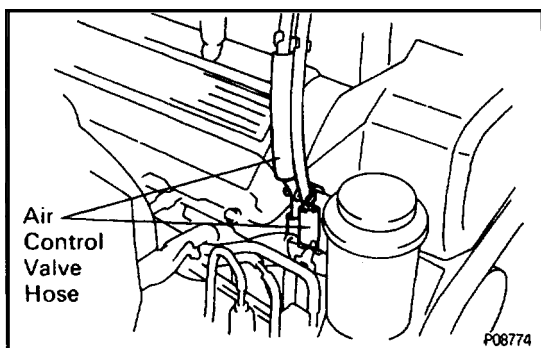
- (a) Connect the end portions of the high-tension cord to the cord clamps
- (b) Install the high-tension cord cover with the bolt.



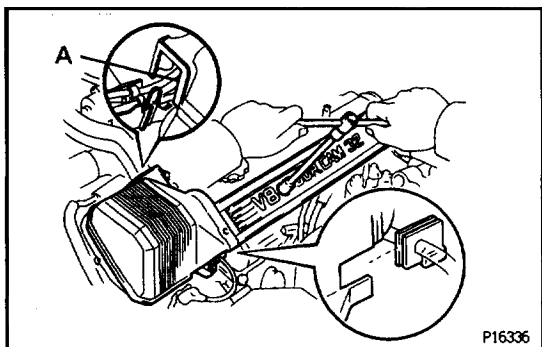
- (c) Install the clamps on the high-tension cords to the high-tension cord cover.
- (d) Connect the high-tension cord to the RH ignition coil.

**20. REINSTALL RH NO.3 TIMING BELT COVER**

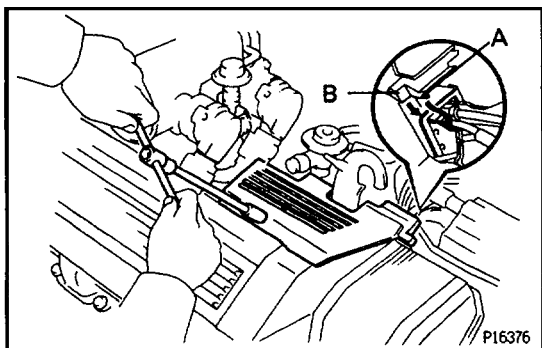
- (a) Install the 3 gaskets to the timing belt cover.
- (b) Fit the portion A of the timing belt cover, matching it with the lower high-tension cord cover.
- (c) Install the timing belt cover with the 4 bolts.



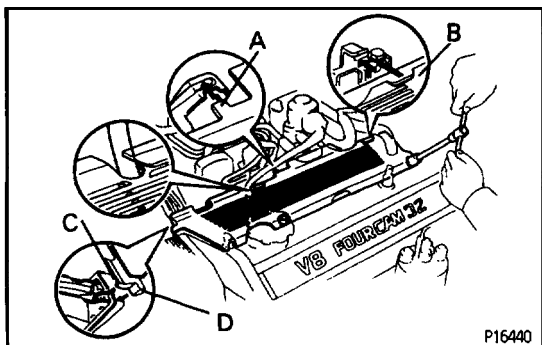
- (d) Connect the 2 air control valve hoses.

**21. REINSTALL LH NO.3 TIMING BELT COVER**

- (a) Install the 3 gaskets to the timing belt cover.
- (b) Install the cord grommet to the high-tension cord (from the LH ignition coil).
- (c) Install the cord grommet to the timing belt cover.
- (d) Fit the portion A of the timing belt cover, matching it with the lower high-tension cord cover.
- (e) Install the timing belt cover with the 4 bolts.

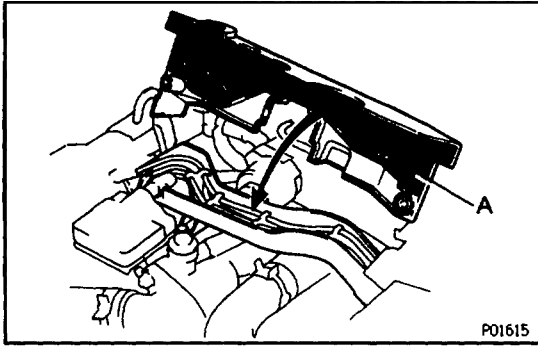
**22. REINSTALL RH ENGINE WIRE COVER**

- (a) Fit the portions A and B of the engine wire cover, matching them with the lower high-tension cord cover and No.3 timing belt cover.
- (b) Install the engine wire cover with the bolt.

**23. REINSTALL LH ENGINE WIRE COVER**

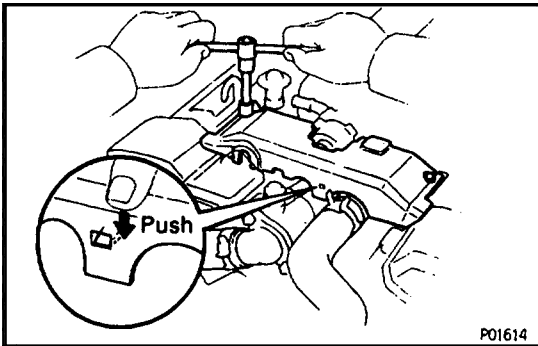
- (a) Connect the portions A and B of the engine wire cover to the wire brackets.
- (b) Set the VSV (for the fuel pressure) wire in original position.
- (c) Fit the portions C and D of the engine wire cover, matching them with the lower high-tension cord cover and No.3 timing belt cover.
- (d) Install the engine wire cover with the 2 bolts.



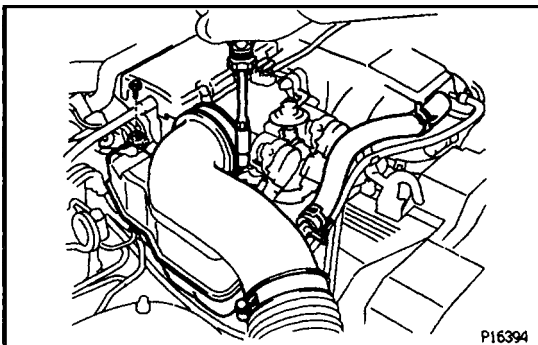


#### 24. REINSTALL UPPER HIGH-TENSION CORD COVER

- (a) Fit portion A of the upper high-tension cord cover matching the top of the lower high-tension cord cover.

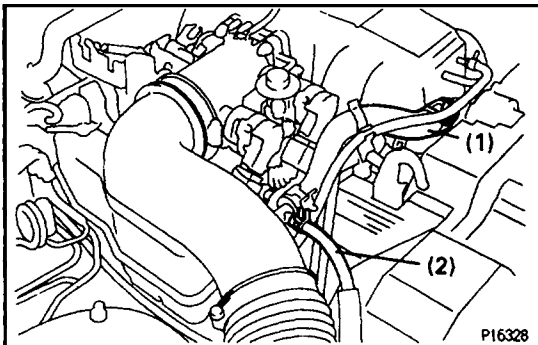


- (b) Push the front side of the upper high-tension cord cover, and fit the front side claw groove of the upper high-tension cord cover to the claw of the lower high-tension cord cover.
- (c) Install the upper high-tension cord cover with the 2 bolts.



#### 25. REINSTALL INTAKE AIR CONNECTOR

- (a) Connect the end portions of the intake air connector to the throttle body and air cleaner hose.
- (b) Tighten the 2 hose clamps.
- (c) Install the bolt holding the intake air connector to the cylinder head cover.



- (d) Connect the following hoses:
- (1) Air hose to IAC valve
  - (2) Air hose (from air control valve on PS pump) to intake air connector

#### 26. RECONNECT NEGATIVE (-) TERMINAL CABLE TO BATTERY

#### 27. REFILL ENGINE WITH COOLANT

#### 28. CHECK FOR FUEL LEAKS