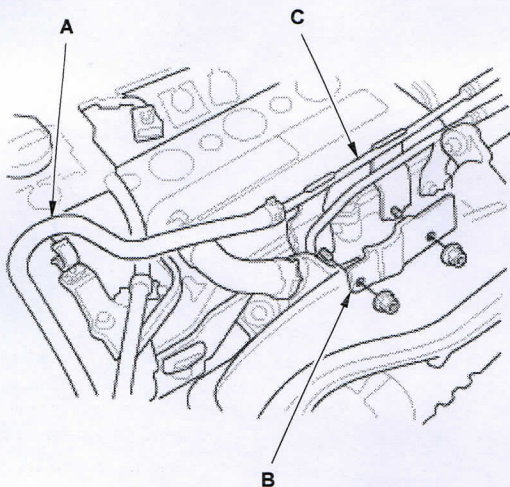
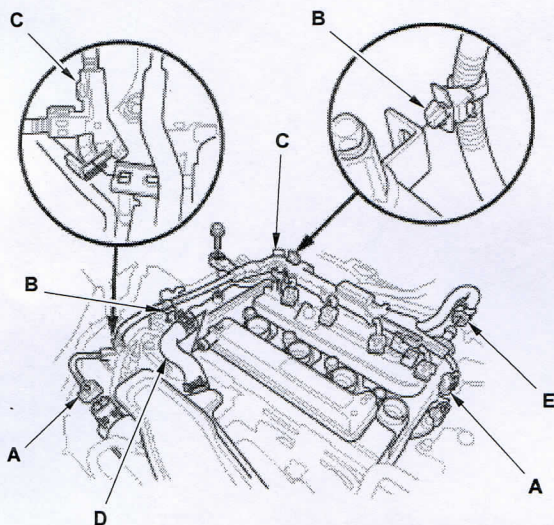


Cylinder Head Cover Removal and Installation**Removal****1. Ignition Coil - Remove****2. Turbocharger Water Return Pipe - Remove**

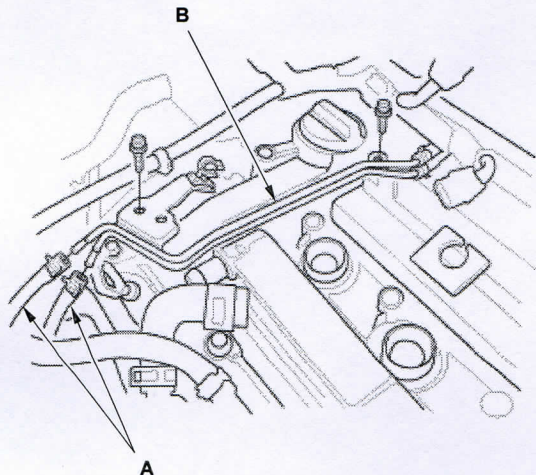
1. Disconnect the water bypass hose (A).
2. Remove the cylinder head cover heat insulator (B) and the turbocharger water return pipe (C).

3. Breather Hose, PCV Hose, and Harness Holder - Remove

1. Disconnect the connectors (A).
2. Remove the harness clamps (B) and the harness holders (C).
3. Disconnect the breather hose (D) and the PCV hose (E).

4. Connector (MAP Sensor) - Disconnect

5. Turbocharger Bypass Control Valve Solenoid Pipe - Remove

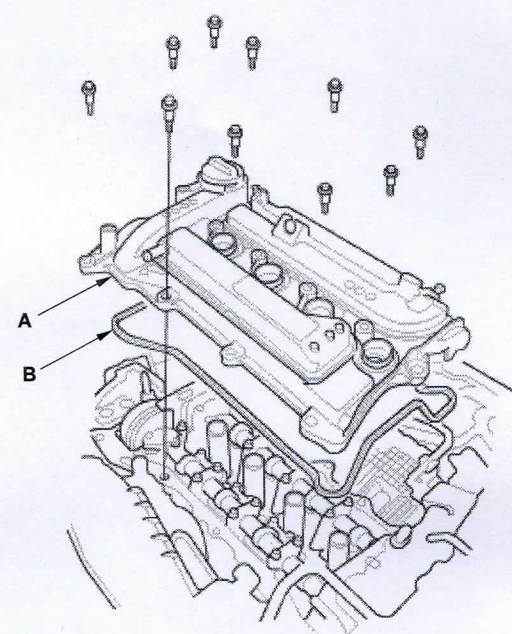


1. Disconnect the hoses (A).
2. Remove the turbocharger bypass control valve solenoid pipe (B).

6. PCV Valve - Remove

1. If necessary, remove the PCV valve.

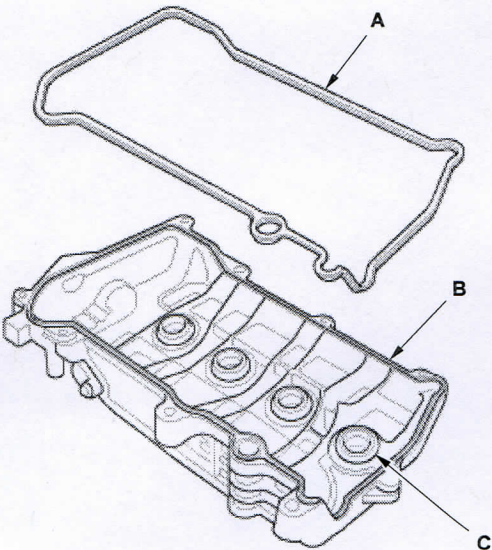
7. Cylinder Head Cover - Remove



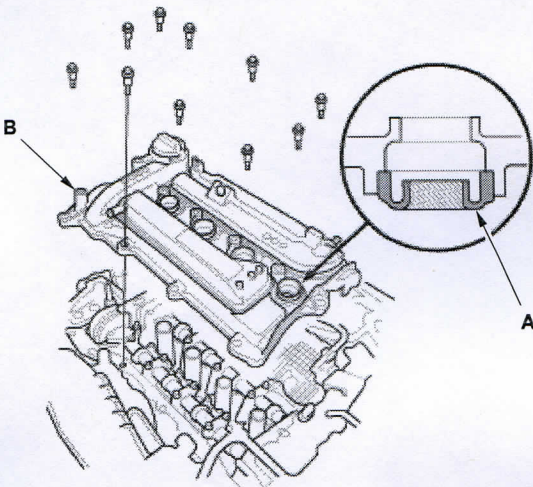
1. Remove the cylinder head cover (A) and the head cover gasket (B).

Installation

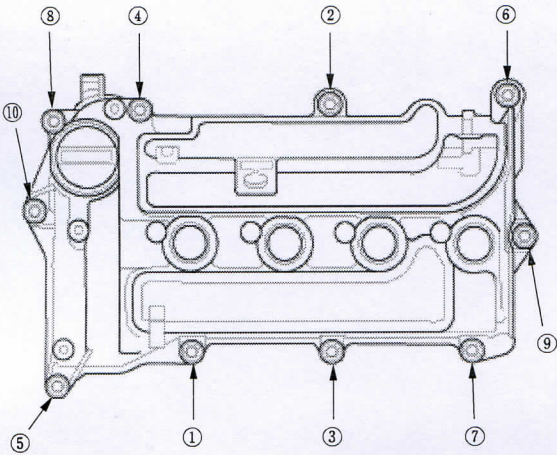
1. Cylinder Head Cover - Install



1. Thoroughly clean the head cover gasket (A) and the groove of the cylinder head cover (B).
- NOTE: Check and, if necessary, replace the head cover gasket.
2. Check the spark plug seals (C) for damage. If any seals are damaged, replace the cylinder head cover.
 3. Install the head cover gasket in the groove of the cylinder head cover. Make sure the head cover gasket is seated securely.



4. Apply liquid gasket to the cam chain case, the high pressure fuel pump base, and the cylinder head mating areas.
5. Apply a light coat of new engine oil to the lip of the spark plug seals (A).
6. Set the spark plug seals on the spark plug tubes. Place the cylinder head cover (B) on the cylinder head, then slide the cylinder head cover slightly back and forth to seat the head cover gasket.
7. Inspect the spark plug seals for damage.

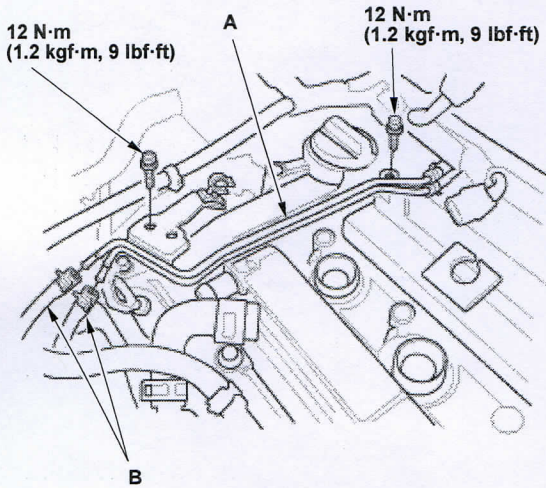


- 8. Tighten the bolts in two steps. In the final step, torque all bolts in sequence to 7.0 N·m (0.71 kgf·m, 5.2 lbf·ft).

2. PCV Valve - Install

- 1. If the PCV valve is removed, install the PCV valve.

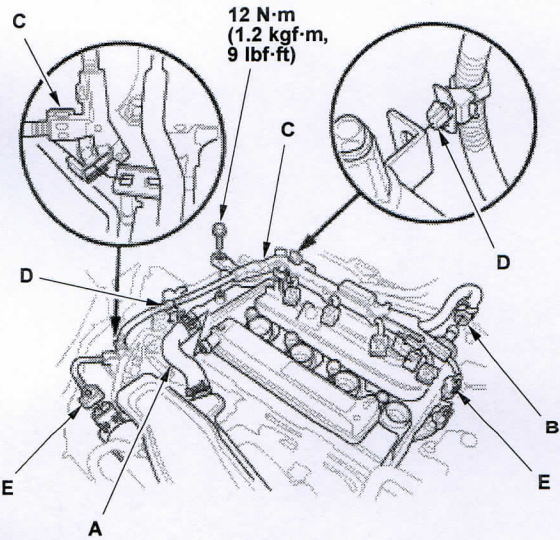
3. Turbocharger Bypass Control Valve Solenoid Pipe - Install



- 1. Install the turbocharger bypass control valve solenoid pipe (A).
- 2. Connect the hoses (B).

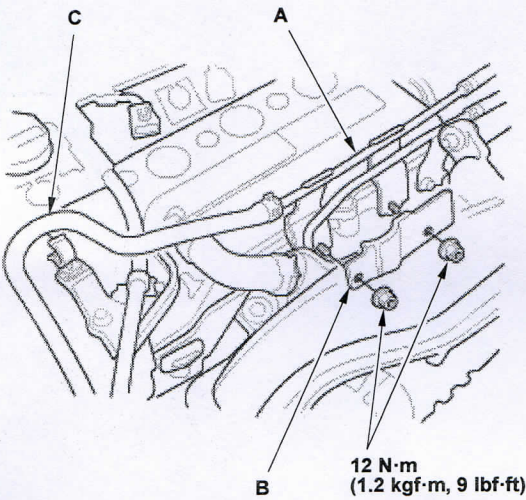
4. Connector (MAP Sensor) - Connect

5. Breather Hose, PCV Hose, and Harness Holder - Install



1. Connect the breather hose (A) and the PCV hose (B).
2. Install the harness holders (C) and the harness clamps (D).
3. Connect the connectors (E).

6. Turbocharger Water Return Pipe - Install



1. Install the turbocharger water return pipe (A) and the cylinder head cover heat insulator (B).
2. Connect the water bypass hose (C).

7. Ignition Coil - Install