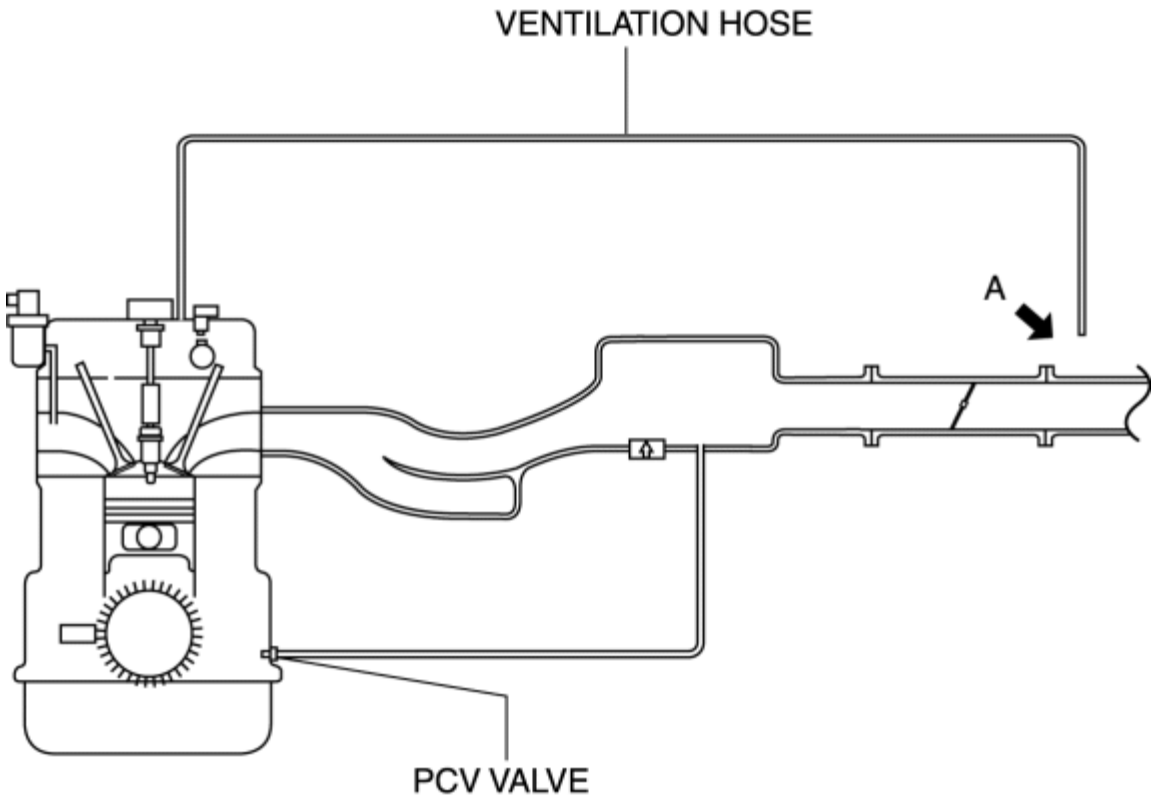
2012 - Mazda6 - Engine

POSITIVE CRANKCASE VENTILATION (PCV) VALVE INSPECTION [MZR 2.5]

Airflow Inspection

1. Disconnect the section (A) of the ventilation hose shown in the figure.



2. Start the engine and verify that vacuum is applied to the end of the disconnected ventilation hose while the engine is idling.

- If vacuum does not occur in the ventilation hose, perform the procedure from Step 3.

NOTE:

- If the PCV valve is operating normally, vacuum occurs in the ventilation hose, however, if there is a malfunction in the PCV valve, positive pressure occurs in the ventilation hose because the blow-by gas is circulated to the air hose from the ventilation hose.
- Verify the ventilation hose vacuum using the following methods:
    - When the tip of your finger touches the end of the ventilation hose, it is suctioned by the hose.

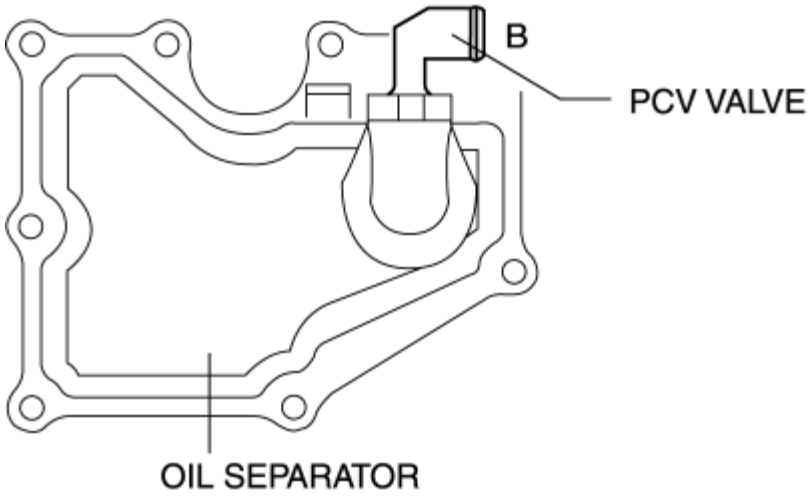
When a thin scrap of paper contacts the end of the ventilation hose, it is suctioned by the hose.

3. Disconnect the negative battery cable. (See **BATTERY REMOVAL/ INSTALLATION [MZR 2.5]**.)

4. Remove the intake manifold and the fuel distributor component as a single unit. (See **INTAKE-AIR SYSTEM REMOVAL/ INSTALLATION [MZR 2.5]**.)

5. Remove the PCV valve and the oil separator as a single unit. (See **POSITIVE CRANKCASE VENTILATION (PCV) VALVE REMOVAL/ INSTALLATION [MZR 2.5]**.)

6. Verify that there is no airflow when pressure is applied to port B.



- If there is airflow, replace the PCV valve. (See **POSITIVE CRANKCASE VENTILATION (PCV) VALVE REMOVAL/ INSTALLATION [MZR 2.5]**.)

7. Verify that there is airflow when vacuum is applied to port B.

- If there is no airflow, replace the PCV valve. (See **POSITIVE CRANKCASE VENTILATION (PCV) VALVE REMOVAL/ INSTALLATION [MZR 2.5]**.)

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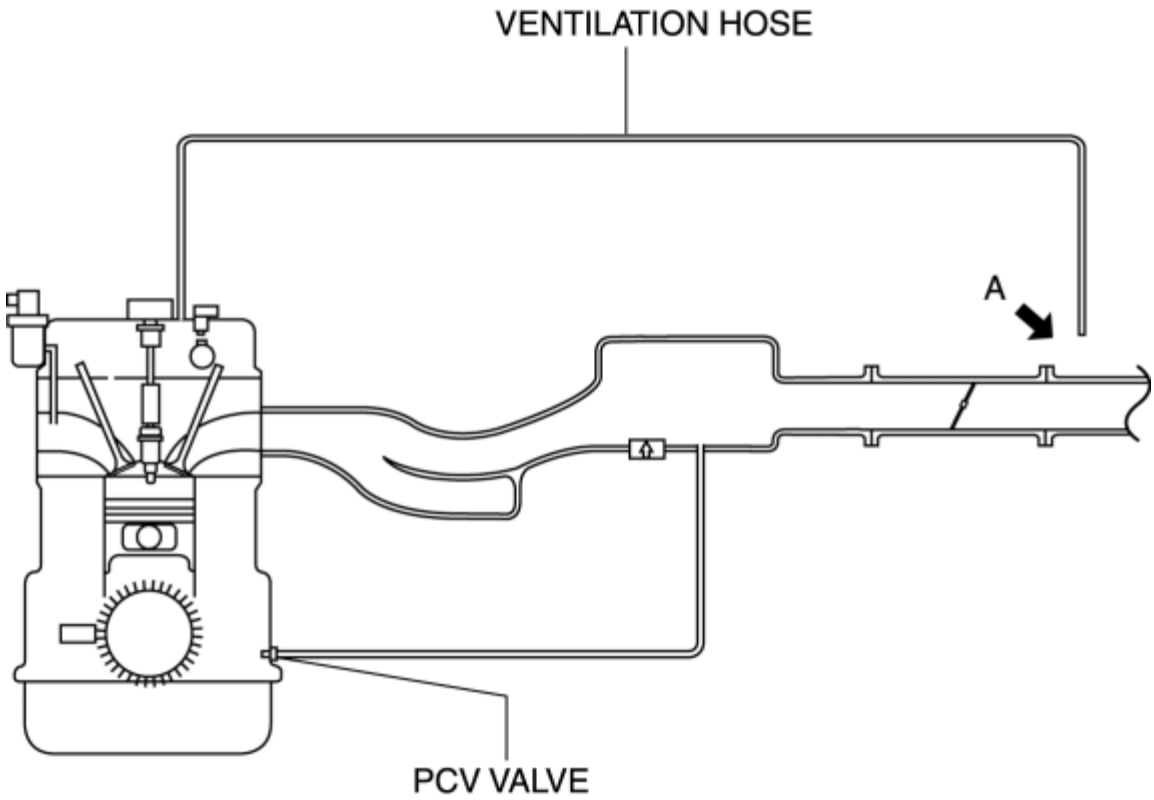

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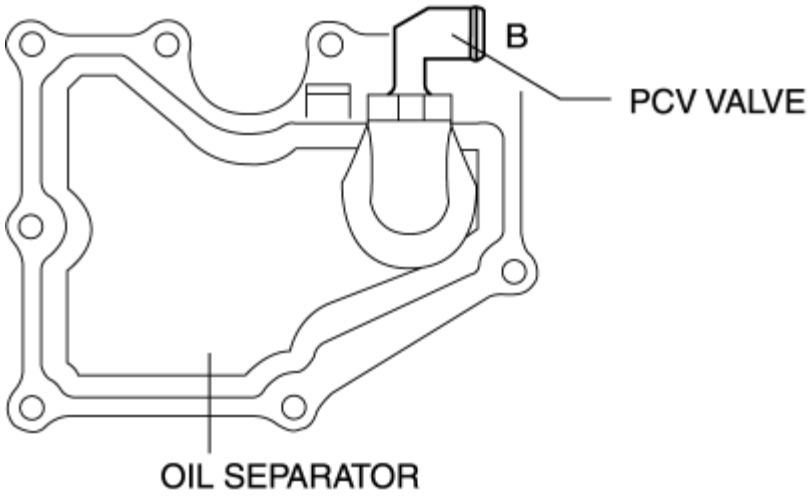

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