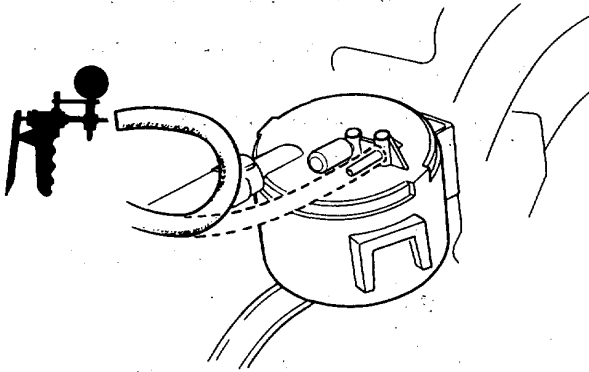


Emission Control System

Evaporative Emission Controls

(1.6 l Engine)

1. Disconnect vacuum hose at the charcoal canister, connect a vacuum pump/gauge to hose.



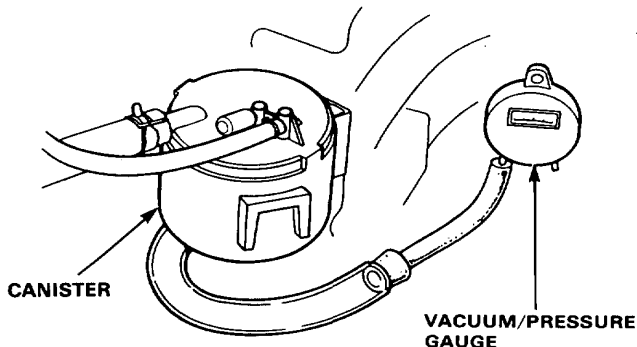
2. Start the engine and raise speed to 3,500 min⁻¹ (rpm).

There should be vacuum.

- If vacuum is available, go on to step 3.
- If vacuum is not available, check the vacuum line.

3. Disconnect a vacuum pump/gauge and reconnect hose. Remove fuel filler cap.

4. Remove canister purge air hose from frame and connect hose to a vacuum gauge as shown.

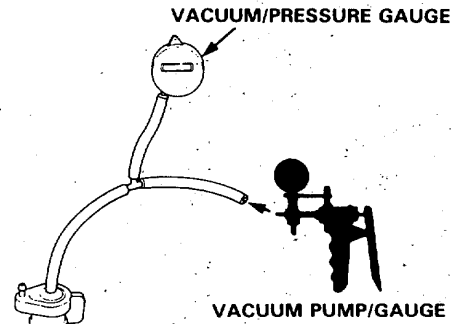


5. Raise engine speed to 3,500 min⁻¹ (rpm). Vacuum should appear on gauge within 1 minute.

- If no vacuum, replace the charcoal canister.

Two-way Valve Testing

1. Remove the fuel filler cap.
2. Remove the vapor line from the canister or frame, and connect to a T-fitting from the vacuum gauge and the vacuum pump as shown.

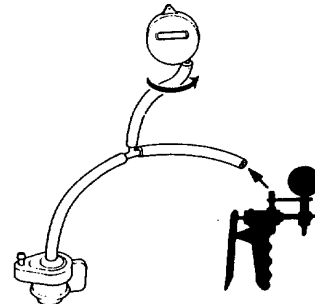


3. Slowly draw a vacuum while watching the gauge. Vacuum should stabilize at 15 to 30 mmHg (0.6 to 1.2 in. Hg).

- If vacuum stabilizes momentarily (Two-way Valve opens) between 15 and 30 mmHg (0.6 and 1.2 in. Hg), go on Step 4.

- If vacuum stabilizes (valve opens) below 15 mmHg or above 30 mmHg (1.2 in. Hg), install new valve and retest.

4. Move vacuum pump hose from vacuum to pressure fitting, and move vacuum gauge hose from vacuum to pressure side as shown.



5. Slowly pressurize the vapor line while watching the gauge. Pressure should stabilize at 10 to 25 mmHg (0.4 to 1.0 in. Hg).

- If pressure momentarily stabilizes (Valve opens) at 10 to 25 mmHg (0.4 to 1.0 in. Hg), the valve is OK.

- If pressure stabilizes below 10 mmHg (0.4 in. Hg) or above 25 mmHg (1.0 in. Hg), install a new valve and retest.



1. The first step in the process is to identify the problem or goal. This involves understanding the current situation and what needs to be achieved. It is important to be clear and specific about the objectives.

2. Once the problem is identified, the next step is to gather information. This can involve research, consultation with experts, or collecting data. The goal is to gain a comprehensive understanding of the issue at hand.

3. After gathering information, the next step is to analyze the data. This involves looking for patterns, trends, and key factors that influence the problem. It is important to consider both the strengths and weaknesses of the current situation.

4. The next step is to develop a plan. This involves identifying the steps that need to be taken to achieve the goal. The plan should be realistic and achievable, taking into account the resources available and the time constraints.

5. Once a plan is developed, the next step is to implement it. This involves putting the plan into action and monitoring progress. It is important to stay flexible and adjust the plan as needed based on the results.

6. The final step is to evaluate the results. This involves assessing the outcomes of the plan and determining whether the goal has been achieved. If not, the process may need to be repeated or adjusted.

Emission Control System

Evaporative Emission Controls (1.6 l Engine)

Troubleshooting Flow Chart Inner Vent Solenoid Valve

Inspection of Inner Vent Solenoid Valve.

Remove the air cleaner cover and filter element.

Disconnect two vacuum hose from the carburetor and connect a vacuum pump.

Apply vacuum.

Does solenoid valve hold vacuum?

NO

Replace the solenoid valve.

YES

Turn the ignition switch ON

Apply vacuum.

Does solenoid valve hold vacuum?

YES

Turn the ignition switch OFF.

NO

Solenoid valve is OK.

Disconnect the 2P connector near the air cleaner.

Turn the ignition switch ON.

Measure voltage between BLK/YEL (+) terminal and BLK (-) terminal.

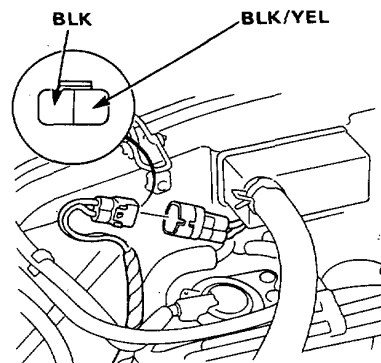
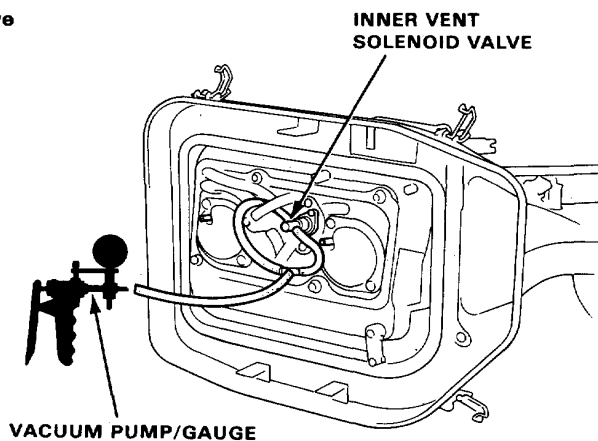
Is there voltage?

YES

Replace the solenoid valve.

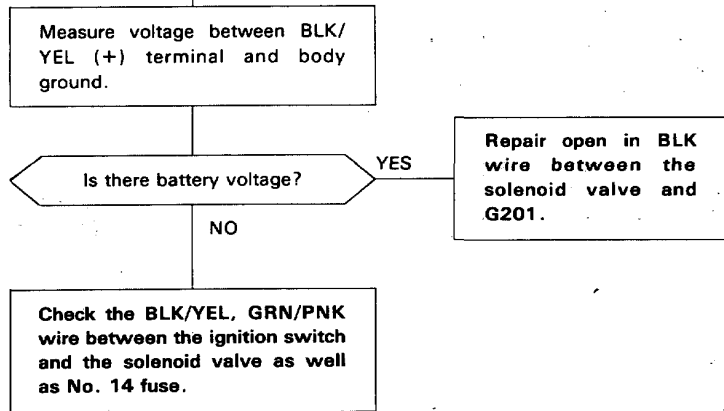
NO

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(cont'd)

Emission Control System

Evaporative Emission Controls (cont'd) (1.6 l Engine)

Troubleshooting Flow Chart Air Vent Cut-off Solenoid Valve

Inspection of Air Vent Cut-off Solenoid Valve.

Disconnect the upper hose of the solenoid valve from the air cleaner and connect a vacuum pump.

Apply vacuum.

Does solenoid valve hold vacuum ?

NO

Replace the solenoid valve.

YES

Turn the ignition switch ON.

Apply vacuum.

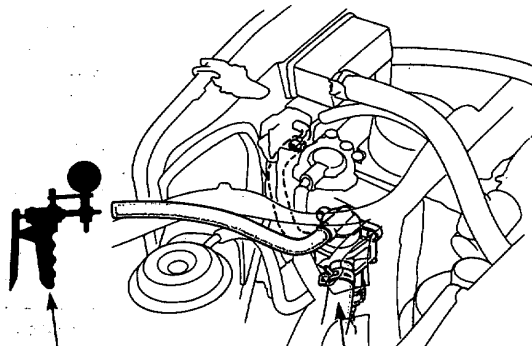
Does solenoid valve hold vacuum?

YES

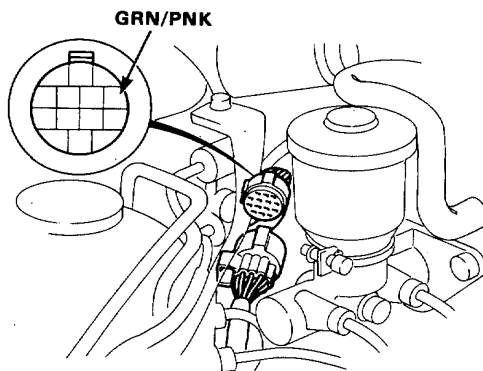
Turn the ignition switch OFF.

NO

Solenoid valve is OK.



VACUUM PUMP/GAUGE AIR VENT CUT-OFF SOLENOID VALVE



Disconnect the 14P connector.

Turn the ignition switch ON.

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