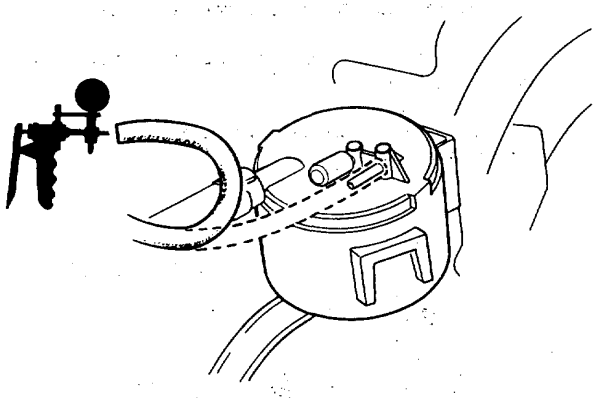
Evaporative Emission Controls (1.6 ℓ Engine)

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



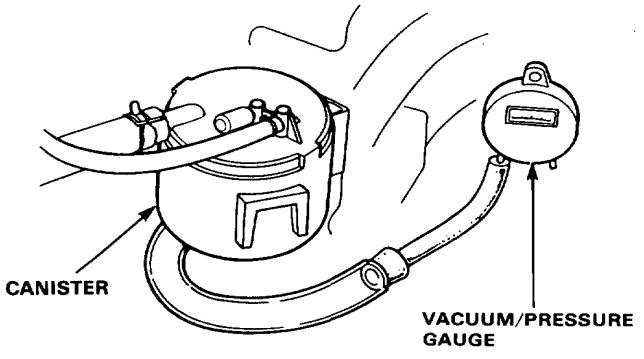
2. Start the engine and raise speed to 3,500 min^{-1} (rpm).

   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.



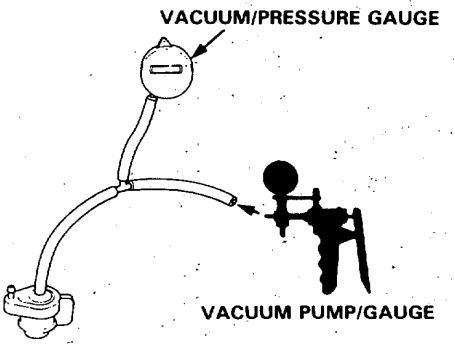
5. Raise engine speed to 3,500 min^{-1} (rpm).
   Vacuum should appear on gauge within 1 minute.

   - If no vacuum, replace the charcoal canister.

Two-way Valve Testing

1. Remove the fuel filler cap.

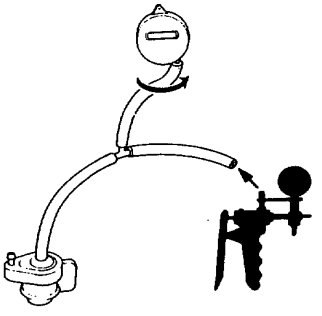
2. Remove the vapor line from the canister or frame, and connect to a T-fitting from the vacuum gauge and the vacuum pump as shown.



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.

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.

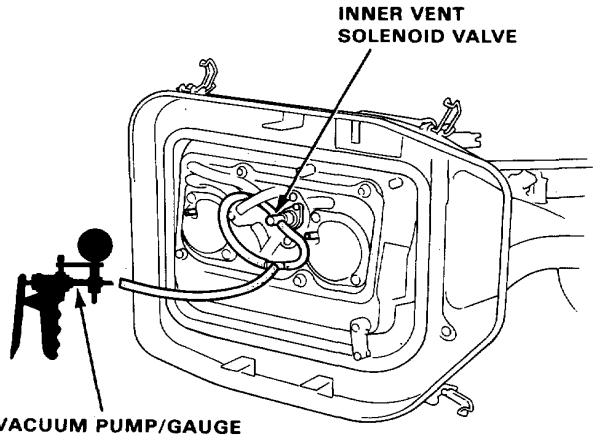
Turn the ignition switch ON.

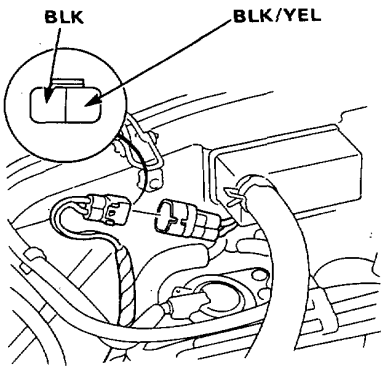
Measure voltage between BLK/YEL (+) terminal and BLK (−) terminal.

Is there voltage? YES → **Replace the solenoid valve.**

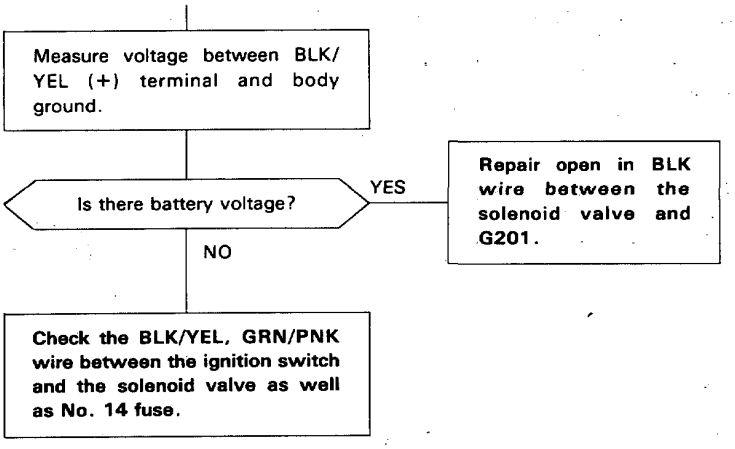
NO

(To page 6-47)





(From page 6-46)



(cont'd)

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

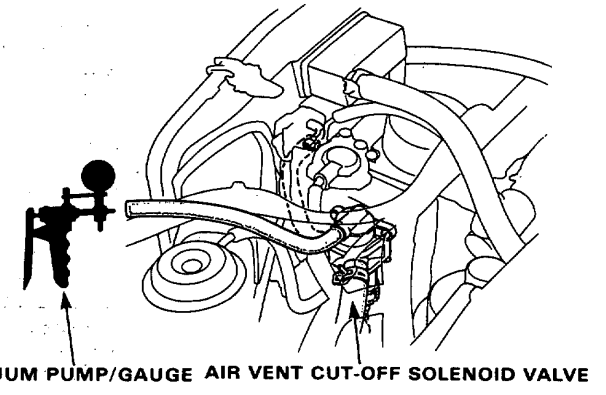
Turn the ignition switch ON.

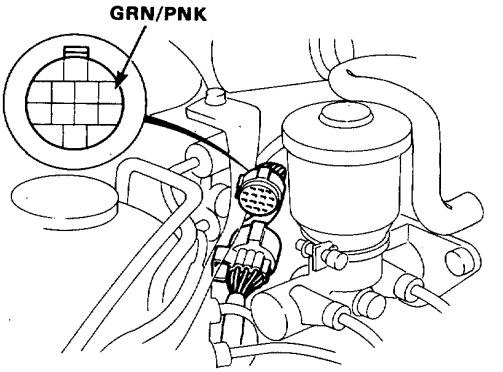
Apply vacuum.

Does solenoid valve hold vacuum? YES → Turn the ignition switch OFF.

NO

Solenoid valve is OK.





Disconnect the 14P connector.

Turn the ignition switch ON.

(To page 6-49)

(From page 6-48)