Evaporative Emission Controls

Troubleshooting Flowchart

Inspection of Evaporative Emission Controls

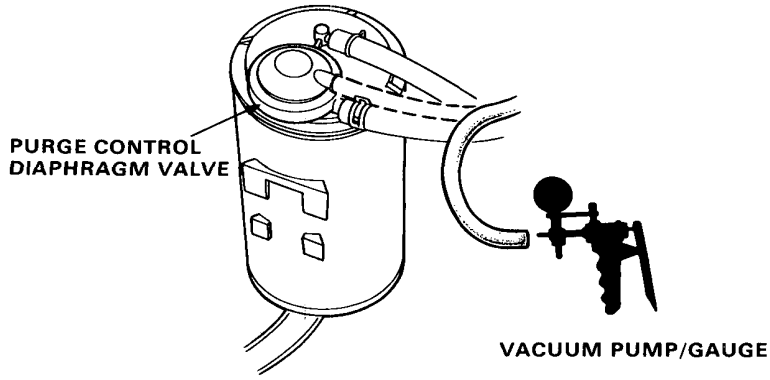
Disconnect #7 vacuum hose from the purge control diaphragm valve (on the charcoal canister) and connect a vacuum gauge to the hose.

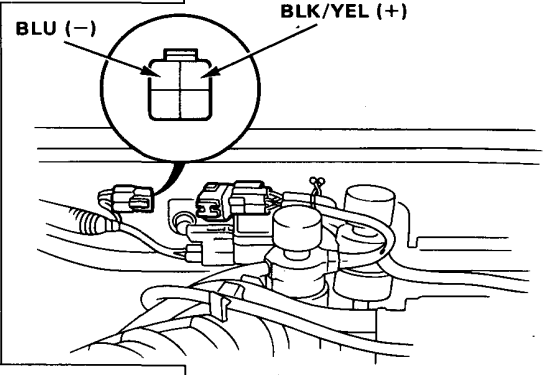
Start the engine and allow to idle.
NOTE: Engine coolant temperature must be below 80 °C (176°F).

Is there vacuum ?

YES → Disconnect the 4P connector.

NO → (To page 6-85)





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

Is there battery voltage ?

YES → **Inspect #7 vacuum hose routing.**
If OK, replace purge cut-off solenoid valve.

NO → Measure voltage between BLK/YEL (+) terminal and body ground.

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(From page 6-84)

Warm up the engine to normal operating temperature (cooling fan comes on).

Check for vacuum at #7 vacuum hose 5 seconds after starting the engine.

Is there manifold vacuum?

NO

Disconnect the 4P connector.

Is there manifold vacuum?

NO

Inspect #7 vacuum hose routing.
If OK, purge cut-off solenoid valve.

YES

Inspect for an open in BLU wire between ECU (A6) and the connector.
If wire is OK, substitute a known-good ECU and recheck. If prescribed voltage is now available, replace the original ECU.

YES

Reconnect the hose.

Remove fuel filler cap.

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(From page 6-84)

Is there battery voltage ?

NO

Repair open in BLK/YEL wire between No. 14 fuse and the 4P connector.

YES

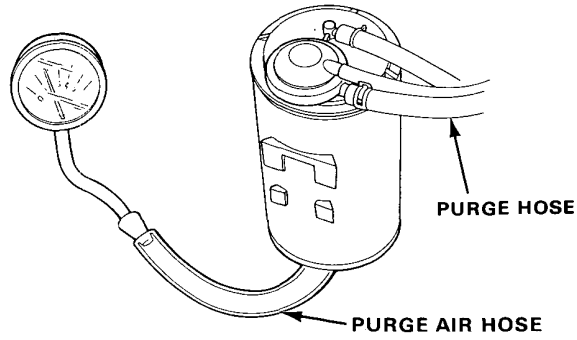
Inspect BLU wire for a short to body ground between ECU (A6) and the connector.
If wire is OK, substitute a known-good ECU and recheck. If symptom/indication goes away, replace the original ECU.

(cont'd)

Evaporative Emission Controls (cont'd)

(From page 6-85)

Connect a vacuum gauge to canister purge air hose.



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

Does vacuum appear on gauge within 1 minute ?

NO

Connect a vacuum gauge to the canister purge hose and raise the engine speed to 3,500 min^{-1} (rpm).

YES

See two-way valve test to complete.
Evaporative emission control are OK.

Does vacuum appear on the gauge within 1 minute ?

NO

Inspect the purge hose. If hose is OK, replace the throttle body.

YES

Replace the canister.