

Emission Control System

Evaporative Emission (EVAP) Controls (cont'd)

P0497 The scan tool indicates Diagnostic Trouble Code (DTC) P0497: Evaporative Emission (EVAP) system low purge flow.

Troubleshooting Flowchart

- The MIL has been reported on.
- DTC P0497 is stored.

Check the EVAP canister purge valve:

1. Disconnect the vacuum hose from the EVAP canister purge valve, and connect a hose and a vacuum pump to the EVAP canister purge valve.
2. Connect the PCM connector terminal A23 to the body ground with a jumper wire.
3. Turn the ignition switch ON (II).
4. Apply vacuum to the hose.

Does the valve hold vacuum?

NO

EVAP canister purge valve is OK. Do the EVAP canister vent shut valve test (see page [11-103](#)).

YES

Check for an open in the wire (PCSline):

1. Turn the ignition switch OFF.
2. Disconnect the EVAP canister purge valve 2P connector.
3. Check for continuity between the EVAP canister purge valve 2P connector terminal No. 1 and body ground.

Is there continuity?

NO

Repair open in the wire between the EVAP canister purge valve and PCM (A23).

YES

Check for an open in the wire (IG1 line):

1. Turn the ignition switch ON (II).
2. Measure voltage between the EVAP canister purge valve 2P connector terminal No. 2 and body ground.

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PCM CONNECTOR A (26P)

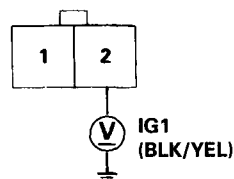
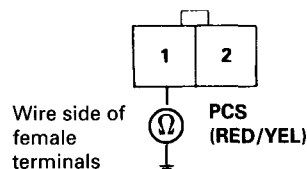
1	2	3	4	5	6	7	8	9	10	11	12	13
14	15	16	17	18	19	20	21	22	23	24	25	26

PCS
(RED/YEL)

JUMPER
WIRE

Wire side of
female
terminals

EVAP CANISTER PURGE VALVE 2P CONNECTOR (C127)





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Is there battery voltage?

YES

Replace the EVAP canister purge valve.

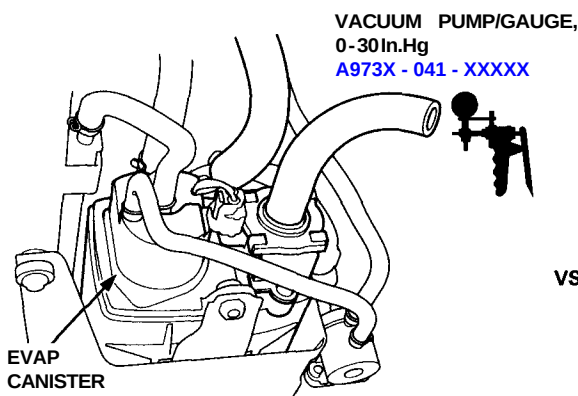
NO

Repair open in the wire between the EVAP canister purge valve and No. 20 ECU (PCM) (20 A) fuse.

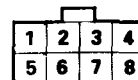
EVAP canister vent shut valve test.

Check the EVAP canister vent shut valve:

1. Disconnect the vacuum hose and connect a vacuum pump to the hose.
2. Connect the PCM connector terminal F5 to the body ground with a jumper wire.
3. Turn the ignition switch ON (II).
4. Apply vacuum to the hose.



PCM CONNECTOR F (8P)



VSV (RED/WHT)

JUMPER WIRE

Wire side of female terminals

Does the valve hold vacuum?

YES

EVAP canister vent shut valve is OK. Inspect the vacuum hose between the EVAP canister purge valve and the EVAP canister.

NO

Check for an open in the wire (VSV line):

1. Turn the ignition switch OFF.
2. Disconnect the EVAP canister vent shut valve 2P connector.
3. Check for continuity between the EVAP canister vent shut valve 2P connector terminal No. 2 and body ground.

EVAP CANISTER VENT SHUT VALVE 2P CONNECTOR (C673)



Wire side of female terminals

Is there continuity?

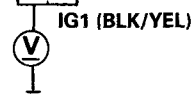
NO

Repair open in the wire between the EVAP canister vent shut valve and PCM (F5).

YES

Check for an open in the wire (IG1 line):

1. Turn the ignition switch ON (II).
2. Measure voltage between the EVAP canister vent shut valve 2P connector terminal No. 1 and body ground.



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(cont'd)

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Evaporative Emission (EVAP) Controls (cont'd)

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