2005 Honda Civic
L4-1.7L SOHC

MIL reported on with code P0497, EVAP system fault

Jeff Campbell-
09/03/2014 | 16:21:02

ALLDATA Diagnostic Bulletin

RELATED VEHICLES: 2004-2005 Civic, Civic Si (Canada) 1.7L SOHC

SUMMARY: P0497-EVAP System Low Purge Flow; The EVAP canister temporarily stores fuel vapor from the fuel tank until it can be purged back into the engine and burned. When the engine coolant temperature is below 158 F (70 C) , the ECM/PCM turns off the EVAP canister purge valve which cuts vacuum to the EVAP canister. The FTP sensor converts fuel tank absolute pressure into an electrical input to the ECM/PCM. The EVAP two way valve sends fuel vapor to the EVAP canister corresponding to the pressure inside the fuel tank and prevents excessive vacuum in the fuel tank by drawing in fresh air through the EVAP canister. The EVAP bypass solenoid valve opens to bypass the two way valve when doing the EVAP leak check. When the ECM/PCM detects a leak or EVAP system fault such as incorrect pressure or flow, a DTC sets.

PROBABLE CAUSES:

- EVAP Purge Valve
- EVAP Vent Valve
- Fuel Tank Pressure Sensor
- Fuel Filler Cap
- Tubes or Hoses
- Wiring or Connectors

RELATED COMMUNITY CASES:

- MIL on P0106 P0496 (http://community.alldata.com/questions/20827/)
- MIL on- P0496 (http://community.alldata.com/questions/10964/)
- MIL on, P0455, P0496 (http://community.alldata.com/questions/2561/)

DIAGNOSIS:

HINT: Check for proper fuel filler cap and installation before continuing.

1. Ignition OFF, jumper a wire to ground from terminal 2 (YEL/BLU) of the EVAP purge solenoid valve.
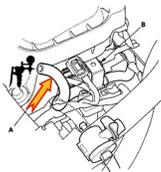

41. **EVAP Canister Purge Valve (except GX)**
 – Black
 – Middle of engine
 – On engine wire harness

Jumper wire to ground

1 BLK/YEL (Fuse 4 – Under-dash)
2 YEL/BLU
DX, LX: (Valve control input (PCS))
EX: (Valve control input (PCS))
HX: (Valve control input (PCS))

2. Disconnect the vacuum hose (A) from the EVAP canister purge valve (B), and connect a vacuum pump/gauge to the hose.

3. Turn ignition ON and apply vacuum to the hose.

- If the valve holds vacuum, replace it.
- If the valve does NOT hold vacuum, next step.

4. Ignition OFF, jumper a wire to ground from terminal 2 (LT GRN/RED) of the canister vent solenoid valve.
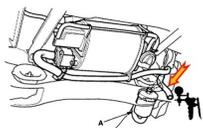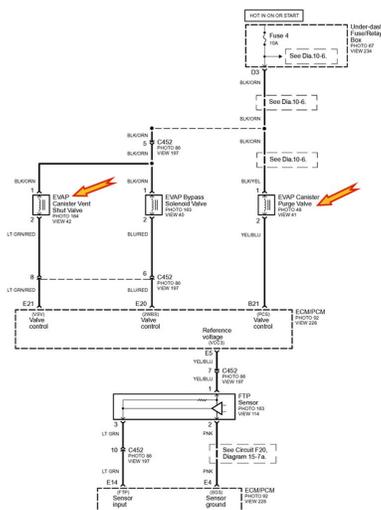

5. Disconnect the vacuum hose from the EVAP canister vent filter line (A), and connect a vacuum pump/gauge, to the hose.
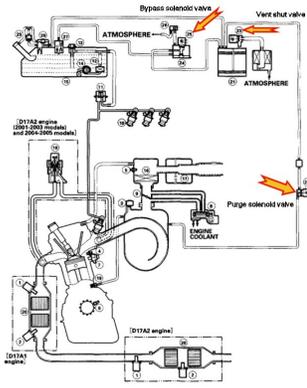

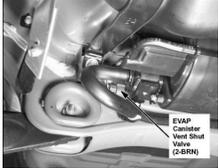6. Turn ignition ON and apply vacuum to the hose.

- If the valve does NOT hold vacuum, replace it.
- If the valve does hold vacuum, inspect the vacuum line between the EVAP canister purge valve and the EVAP canister.

If both the EVAP Purge Valve and EVAP Vent Valve check out OK, and the lines and hoses are not damaged, disconnected or plugged, check the wiring and connectors from the valves to the ECM/PCM and remedy any faults found.

164. Under Right Side of Floor (except GX)

48. Middle of Engine (except GX)

YouTube - EVAP Purge Valve Check (http://www.youtube.com/watch?v=cUl4MVQwUBI)

Mileage

None Indicated

Symptoms

MILWarning Indicator Lamp On

Test Performed

None Indicated

Systems

Computers and Control Systems

DTC Codes

P0497

Keywords

None Indicated

Comment(0)

4 Repair(s) Available

Verified Repair(1)

Jeff Campbell- 09/03/2014 | 16:24:16

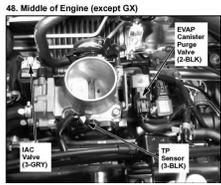**CORRECTION:** EVAP Purge Solenoid Valve

SKILL LEVEL: B

LABOR TIME: 0.4 Hours

OEM PART NUMBER: 36162PLC003

AFTERMARKET PART: Canister Purge Valve
(http://www.autozone.com/autozone/parts/Duralast-Canister-Purge-Valve/2005-
Honda-Civic-DX/_/N-jn43hZ9ixsy?itemIdentifier=579057_0_0_)

COMPONENT LOCATION:

If this repair worked for you, please "Verify" it.
If this repair did not work for you please add your repair.
Your participation helps everyone in the ALLDATA Community.

Comment(0)

Suggested Repair

Jeff Campbell-
09/03/2014 |
16:25:33

Fuel Filler Cap

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Suggested Repair

Jeff Campbell-
09/03/2014 |
16:25:18

Fuel Tank Pressure Sensor

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Suggested Repair

Jeff Campbell-
09/03/2014 |
16:24:54

EVAP Vent Valve

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