

EVAP VSV Monitor Description

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MONITOR SUMMARY

The ECM uses the vapor pressure sensor to detect malfunctions in the evaporative emissions (EVAP) system. This diagnostic checks the function of the EVAP VSV and VSV for vapor pressure sensor, and the integrity of these components and the fuel tank from the standpoint of fuel vapor emissions. When the VSV for vapor pressure sensor is closed, the ECM monitors the vapor pressure in the fuel tank. When it is open, the ECM monitors the vapor pressure in the charcoal canister.

In one part of this diagnostic, the ECM switches the EVAP VSV open to apply manifold vacuum to the EVAP system. The ECM then monitors the vapor pressure in the charcoal canister.

It is normal for the vapor pressure decrease when the EVAP VSV is opened. If the ECM detects no reduction of the vapor pressures it interprets this as a “stuck closed” malfunction in the EVAP VSV.

In a second part of this diagnostic, the ECM checks the vapor pressure in the charcoal canister with the EVAP VSV off. In this case there should be some vapor pressure in the canister. If the vapor pressure in the canister is low and remains low, the ECM interprets this as a “stuck open” malfunction in the EVAP VSV.

In either case, the ECM will illuminate the MIL and set a DTC.

RELATED DTC

Related DTCs	P0441	• EVAP VSV stuck open • EVAP VSV stuck closed
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MODEL YEAR CHART

Model Year	See Page
1996	Ev-10
1997	Ev-12
1998	Ev-14
1999	Ev-16
2000	Ev-18
2001	Ev-20
2002	Ev-22