VSV for Vapor Pressure Sensor Monitor Description

To return to general description, see page Ev–5.

MONITOR SUMMARY

The ECM uses the vapor pressure sensor to detect malfunctions in the evaporative emissions (EVAP) system. This diagnostics check 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 closes the EVAP VSV. This should allow for a gradual increase in canister pressure. The ECM monitors the vapor pressure in the charcoal canister. If the ECM detects no increase in the vapor pressures it interprets this as a leak in the charcoal canister or vapor lines.

In a second part of this diagnostic, the ECM checks the VSV for vapor pressure sensor. When the VSV for vapor pressure sensor is switched from the charcoal canister to the fuel tank, the vapor pressure sensor should indicate a different pressure level. If there is little or no change in the indicated vapor pressure, the ECM interprets this as a malfunction in the VSV for vapor pressure sensor.

In either case, the ECM will illuminate the MIL (2–trip detection logic) and set a DTC.

RELATED DTC

Related DTCs	P0446	• VSV for vapor pressure sensor malfunction • Purge line leak

MODEL YEAR CHART

Model Year	See Page
1996	Ev–25
1997	Ev–27
1998	Ev–29
1999	Ev–32
2000	Ev–36
2001	Ev–39
2002	Ev–41