

Vapor Pressure Sensor Range/Performance Monitor Description

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MONITOR SUMMARY

The ECM senses pressure in the fuel tank using the vapor pressure sensor. The ECM supplies the sensor with a regulated 5 V reference-voltage and the sensor returns a signal voltage between 0.5 V and 4.5 V according to the pressure level in the fuel tank.

When the pressure in the fuel tank is low, the output voltage of the vapor pressure sensor is low. When it is high, the output voltage is high.

For this DTC P0451, the ECM checks for a “noisy” sensor or a “stuck” sensor.

The ECM checks for a “noisy” sensor by monitoring the fuel tank pressures when the vehicle is stationary and there should be little variation in the tank pressure. If the indicated pressure varies beyond specified limits, the ECM will illuminate the MIL (2-trip detection logic) and a DTC is set.

The ECM checks for a “stuck” sensor by monitoring the fuel tank pressure for an extended time period. If the indicated pressure does not change over this period, the ECM will conclude that the fuel tank pressure sensor is malfunctioning. The ECM will illuminate the MIL (2-trip detection logic) and a DTC is set.

RELATED DTC

Related DTCs	P0451	Vapor pressure sensor malfunction
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MODEL YEAR CHART

Model Year	See Page
1996 to 2004	Ev-97