

Fuel Pressure Sensor

Cn002-01

Fuel Pressure Sensor Monitor Description

MONITOR SUMMARY

The ECM compensates for variations in fuel pressure by adjusting the fuel injector ON time. The ECM detects this pressure using the fuel pressure sensor. The sensor contains an element that varies its electrical resistance depending on the pressure of the fuel. When the fuel pressure is low, the sensor's resistance is low. When the fuel pressure is high, resistance is high.

This sensor varies its resistance with fuel pressure. The ECM applies a 5 V "pull-up" voltage to the sensor terminal and calculates the fuel pressure based on how much the sensor can "pull-down" this voltage. If the fuel pressure is high and the sensor resistance is high, the voltage will stay high. When the sensor resistance is low (low fuel pressure), the sensor will "pull-down" the voltage to a low level.

If the ECM detects that the output voltage of the fuel pressure sensor is out of the normal range, the ECM interprets this as a malfunction in the sensor and sets a DTC.

RELATED DTC

Related DTCs	P0190	Fuel pressure sensor circuit is open/shorted
--------------	-------	--

MODEL YEAR CHART

Model Year	See Page
1999 to 2001	Cn-4