

1996 to 2004 MY Vapor Pressure Sensor Monitor (P0450, P0452, P0453)

To return to monitor description, see page [Ev-94](#).

MONITOR STRATEGY

Required sensors/Components	Main	Vapor pressure sensor
	Sub	ECT sensor and IAT sensor
Frequency of operation	Continuous	
Duration	Within 10 sec.	
MIL operation	2 driving cycles	
Sequence of operation	None	

TYPICAL ENABLING CONDITIONS

Item	Specification	
	Minimum	Maximum
The monitor will run whenever the following DTCs are not present	See page In-39	
(a) IAT at engine start	10°C (50°F)	35°C (95°F)
(b) ECT at engine start	10°C (50°F)	35°C (95°F)
Difference between (a) and (b)	–	7°C (45°F)

TYPICAL MALFUNCTION THRESHOLDS

Detection Criteria	Threshold
Case 1: Sensor is open/shorted	
Vapor pressure sensor voltage	Less than 0.1 V or More than 4.9 V
Fuel tank pressure	Less than –4.0 kPa or 2.0 kPa or more
Case 2: Sensor voltage is low	
Vapor pressure sensor voltage	Less than 0.1 V
Fuel tank pressure	Less than –4.0 kPa
Case 3: Sensor voltage is high	
Vapor pressure sensor voltage	More than 4.9 V
Fuel tank pressure	2.0 kPa or more

COMPONENT OPERATING RANGE

Parameter	Standard Value
Vapor pressure sensor voltage	Between 0.5 and 4.5 V
Fuel tank pressure	Between –3.5 and 1.5 kPa