

2000 to 2003 MY CCV and VSV for Bypass Valve Monitor (P0446)

To return to monitor description, see page [Ev-71](#).

MONITOR STRATEGY

Required sensors/Components	Main	Vapor pressure sensor
	Sub	EVAP VSV, CCV and VSV for bypass valve, ECT sensor, IAT sensor, Vehicle speed sensor and MAF meter
Frequency of operation	Once per driving cycle	
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	
Altitude	–	2,400 m (7,870 ft.)
Battery voltage	11 V	–
(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)
IAT	10°C (50°F)	–
Time after engine start	–	50 min.
Vehicle speed	–	130 km/h (80 mph)
Time that vehicle speed is fixed at 64 km/h (40 mph) or more	15 sec.	–
Time that vehicle speed is fixed at less than 64 km/h (40 mph)	60 sec.	–
Fuel level	–	90 %
Fuel slosh	No slosh	
Change value of fuel tank pressure	Little	
Time after vehicle stop	110 sec.	–
Time after vehicle start	20 sec.	–
Number of vacuum introduction	–	8 times

TYPICAL MALFUNCTION THRESHOLDS

Detection Criteria	Threshold
Case 1: CCV stuck closed	
Fuel tank pressure when the CCV is opened after an EVAP leak check	Not changing
Case 2: VSV for bypass valve malfunction	
Fuel tank pressure when the VSV for bypass valve is closed after an EVAP leak check.	Not changing
Case 3: EVAP VSV stuck closed	
Fuel tank pressure after the EVAP VSV is opened and manifold vacuum is introduced to the fuel tank.	Not changing

OBD MONITOR DRIVE PATTERNS

See page [In-13](#)

MODE 06 DATA (MONITOR RESULT)

- (a) Checking monitor status (See page [In-43](#))
- (b) Detecting Mode 06 data (See page [In-44](#))