

1996 to 2004 MY Closed Loop Monitor

To return to monitor description, see page [Fu-1](#).

MONITOR STRATEGY

Required sensors/Components	Main	Heated oxygen sensor (A/F sensor)
	Sub	Crankshaft position sensor, Vehicle speed sensor, Throttle position sensor
Frequency of operation	Once per driving cycle	
Duration	Between 70 and 270 sec.	Front oxygen sensor equipped
	90 sec.	A/F sensor equipped
MIL operation	Immediate	
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	
Time after the following conditions are met	50 to 90 sec.	–
Engine RPM	1,500 rpm	–
Vehicle speed	40 km/h (25 mph)	90 km/h (57 mph)
Time after engine start	• 20 to 180 sec. (Front oxygen sensor equipped) • 140 sec. (A/F sensor equipped)	–
Throttle position	Open (idle OFF)	

TYPICAL MALFUNCTION THRESHOLDS

Detection Criteria	Threshold
Front oxygen sensor equipped:	
Oxygen sensor voltage	Less than 0.45 V
Front A/F sensor equipped:	
A/F sensor locus voltage	Less than 0.5 V