

2004 MY Catalyst Deterioration Monitor (P0420, P0430)

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

MONITOR STRATEGY

Required sensors/Components	Main	Front heated oxygen sensor (or A/F sensor) and Rear heated oxygen sensor
	Sub	Crankshaft position sensor, ECT sensor, IAT sensor and MAF sensor (or MAP sensor)
Frequency of operation	Once per driving cycle	
Duration	Included in the Typical Malfunction Thresholds	
MIL operation	2 driving cycles	
Sequence of operation	None	

TYPICAL ENABLING CONDITIONS

The monitor will run whenever the following DTCs are not present	See page In-39
Included in the Typical Malfunction Thresholds	—

TYPICAL MALFUNCTION THRESHOLDS

Engine Family	Detection Criteria	Threshold (Duration)	Typical Enabling Condition
3MZ-FE	Catalyst deterioration level (rear oxygen sensor locus length)	15 V* or more for 30 sec. (detected 3 times during 1 driving cycle)	- Battery voltage is 11 V or more - Closed Loop - Engine RPM is 3,000 rpm or less - Intake air amount is between 6 and 45 g/sec. - A/F sensor voltage is between 3.0 and 3.5 V - Catalyst is warmed up - ECT is more than 75°C (167°F) - IAT is -10°C (14°F) or more

* Varies with A/F sensor locus ratio

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](#))