

2002 MY MAF Sensor Range/Performance Monitor (P0101)

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MONITOR STRATEGY

Required sensors/Components	Main	MAF sensor
	Sub	Crankshaft position sensor, Throttle position sensor and ECT sensor
Frequency of operation	Continuous	
Duration	Within 10 sec.	
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	Typical Enabling Condition
1MZ-FE Camry, ES300 and Highlander	MAF sensor voltage	More than 2.2 V	• Idling • ECT is 70°C (158°F) or more
		Less than 0.4 V	• Engine RPM is 1,500 rpm or more • Throttle valve open
1NZ-FXE Prius	MAF sensor voltage	More than 2.2 V	• Idling • ECT is 70°C (158°F) or more
		Less than 0.4 V	• Engine RPM is 1,500 rpm or more • Throttle valve open
Others	MAF sensor voltage	More than 2.2 V	• Idling • ECT is 70°C (158°F) or more
		Less than 1.0 V	• Engine RPM is 1,500 rpm or more • Throttle valve open

COMPONENT OPERATING RANGE

Parameter	Standard Value
MAF sensor voltage	Between 0.5 V and 4.5 V