

Rear Heated Oxygen Sensor Monitor Description

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MONITOR SUMMARY

The engine control module (ECM) uses the oxygen sensor information to regulate the air/fuel ratio close to a stoichiometric ratio. This maximizes the catalytic converter's ability to purify the exhaust gases. The sensor detects oxygen levels in the exhaust gas and sends this signal to the ECM.

The inner surface of the sensor element is exposed to outside air. The outer surface of the sensor element is exposed to exhaust gas. The sensor element is made of platinum coated zirconia and includes an integrated heating element. The oxygen sensor has the characteristic whereby its output voltage change suddenly in the vicinity of the stoichiometric air–fuel ratio. The heated oxygen sensor generates waveforms of a voltage between 0 V and 1 V in response to the oxygen concentration in exhaust gas. When the output voltage of the heated oxygen sensor is 0.55 V or more, the ECM judges that the air/fuel ratio is RICH. When it is 0.40 V or less, the ECM judges that the air/fuel ratio is LEAN.

If the sensor output does not change between RICH and LEAN during “Stop and Go” driving, the ECM interprets this as a malfunction in the oxygen sensor and sets a DTC.

RELATED DTC

Related DTCs	P0136 (Bank 1)	Rear oxygen sensor malfunction
	P0156 (Bank 2)	

MODEL YEAR CHART

Model Year	See Page
Camry CNG	Ho-13
1996 to 2000	Ho-14
2001	Ho-15
2002 to 2004	Ho-16