

EGR Valve Monitor Description

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MONITOR SUMMARY

The EGR system is used to lower combustion temperatures and thus reduce the quantity of NOx generated in the combustion process. Without EGR, under high load conditions, the combustion temperature would be high and large quantities of NOx would be generated. With the EGR system, exhaust gas is “recirculated” by diverting a percentage of the exhaust back into the intake manifold. The recirculated exhaust lowers the combustion temperature and NOx production is reduced. In some driving conditions, EGR gases can affect driveability. In these driving conditions, the ECM commands the EGR stepper motor to close the EGR valve. Closing the EGR valve stops the recirculation of the exhaust gas to the intake manifold.

The ECM senses the duty-cycle of the control signal applied to the EGR valve stepper-motor. If the duty-cycle is 100 %, the ECM will conclude that the EGR valve stepper-motor is malfunctioning. The ECM will illuminate the MIL and set a DTC.

RELATED DTC

Related DTCs	P0403	EGR valve (stepper motor) malfunction
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MODEL YEAR CHART

Model Year	See Page
1996 and 1997	Eg-45