

EGR Flow Insufficient Monitor Description

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MONITOR SUMMARY

If the ECM does not sense the opening of the EGR valve during the diagnostic test, it will conclude that there is a fault in either the EGR valve or the VSV for EGR-cut. The ECM will illuminate the MIL and set a DTC. 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 gasses can affect driveability. In these driving conditions, the ECM commands the VSV for EGR-cut to block the engine vacuum source that opens the EGR valve. Blocking the vacuum signal allows the EGR valve to close and stop recirculation of the exhaust gas to the intake manifold.

During the ECM’s diagnostic test of the EGR system, the VSV for EGR-cut is turned ON and OFF while the intake manifold vacuum is monitored. If the ECM does not detect significant changes in the intake manifold vacuum, it will conclude that either the EGR valve did not open or the VSV for EGR-cut is malfunctioning. The ECM will illuminate the MIL and set a DTC.

RELATED DTC

Related DTCs	P0400 (CNG)	EGR valve does not open
	P0401	

MODEL YEAR CHART

Model Year	See Page
1996 to 2001	Eg-49