

## EGR Flow Insufficient Monitor Description

To return to general description, see page [Eg-38](#).

### MONITOR SUMMARY

The ECM senses the opening of the EGR valve using the EGR gas temperature sensor. If there is low variation in the temperature of the EGR gas flow, the ECM will conclude that there is a fault in either the EGR valve or the EGR gas temperature sensor. 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 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 opening of the EGR valve using the EGR gas temperature sensor. When conditions for EGR flow are met, the ECM monitors the EGR gas for temperature variation. If there is low variation in the temperature of the EGR gas flow, the ECM will conclude that either the EGR valve did not open or the EGR gas temperature sensor is malfunctioning. The ECM will illuminate the MIL and set a DTC.

### RELATED DTC

|              |       |                                                                                                                                   |
|--------------|-------|-----------------------------------------------------------------------------------------------------------------------------------|
| Related DTCs | P0401 | <ul style="list-style-type: none"> <li>• EGR valve does not open</li> <li>• EGR gas temperature sensor circuit is open</li> </ul> |
|--------------|-------|-----------------------------------------------------------------------------------------------------------------------------------|

### MODEL YEAR CHART

| Model Year | See Page              |
|------------|-----------------------|
| 1996       | <a href="#">Eg-40</a> |
| 1997       | <a href="#">Eg-41</a> |