

## 1998 MY EGR Flow Insufficient Monitor (P0401)

To return to monitor description, see page [Eg-15](#).

### MONITOR STRATEGY

|                             |                        |                                                                                           |
|-----------------------------|------------------------|-------------------------------------------------------------------------------------------|
| Required sensors/Components | Main                   | EGR gas temperature sensor                                                                |
|                             | Sub                    | EGR valve, ECT sensor IAT sensor, Crankshaft position sensor and Throttle position sensor |
| Frequency of operation      | Once per driving cycle |                                                                                           |
| Duration                    | 10 sec.                |                                                                                           |
| MIL operation               | 2 driving cycles       |                                                                                           |
| Sequence of operation       | None                   |                                                                                           |

### TYPICAL ENABLING CONDITIONS

| Item                                                             | Specification                         |                     |
|------------------------------------------------------------------|---------------------------------------|---------------------|
|                                                                  | Minimum                               | Maximum             |
| The monitor will run whenever the following DTCs are not present | See page <a href="#">In-39</a>        |                     |
| Altitude                                                         | –                                     | 2,400 m (7,870 ft.) |
| Battery voltage                                                  | 11 V                                  | –                   |
| ECT                                                              | Equal to engine–warmed–up temperature | –                   |
| IAT                                                              | –10°C (14°F)                          | –                   |
| Throttle angle                                                   | 9°                                    | 30°                 |
| Intake air amount                                                | 0.3 g/rev.                            | 1.0 g/rev.          |
| Engine RPM                                                       | 1,800 rpm                             | –                   |
| Engine condition                                                 | Warmed up                             |                     |
| EGR                                                              | Open                                  |                     |

### TYPICAL MALFUNCTION THRESHOLDS

| Engine Family | Detection Criteria          | Threshold                    |
|---------------|-----------------------------|------------------------------|
| 2JZ–GTE       | EGR gas temperature         | Less than IAT + 45°C (81°F)  |
|               | Rise in EGR gas temperature | Less than 10°C (18°F)        |
| 2RZ–FE        | EGR gas temperature         | Less than IAT + 35°C (63°F)  |
|               | Rise in EGR gas temperature | Less than 5°C (9°F)          |
| 3RZ–FE (M/T)  | EGR gas temperature         | Less than IAT + 35°C (63°F)  |
|               | Rise in EGR gas temperature | Less than 5°C (9°F)          |
| 3RZ–FE (A/T)  | EGR gas temperature         | Less than IAT + 38°C (68°F)  |
|               | Rise in EGR gas temperature | Less than 5°C (9°F)          |
| 5VZ–FE        | EGR gas temperature         | Less than IAT + 60°C (108°F) |
|               | Rise in EGR gas temperature | Less than 30°C (54°F)        |

## OBD MONITOR DRIVE PATTERNS

See page [In-13](#)

## MODE 06 DATA (MONITOR RESULT)

- (a) Checking monitor status (See page [In-43](#))
- (b) Detecting Mode 06 data (See page [In-44](#))