

P - EGR FUNCTION TESTING

1993 Mitsubishi Montero

1989-95 ENGINE PERFORMANCE
Chrysler Motors/Mitsubishi Corp. EGR Function Testing

All Models

EGR FUNCTION TESTING

Colt Wagon 1.8L, Montero (A/T), Raider (A/T), Sigma,
Van/Wagon & All Other Federal Models (Ported EGR Valve)

1) Disconnect Green-striped hose from throttle body and connect a vacuum pump to hose end. Plug nipple where hose was connected to throttle body. With engine temperature 122°F (50°C) or less, and engine idling, apply vacuum to hose. If idle does not change and vacuum leaks down, system is functioning properly.

2) With engine temperature 176-205°F (80-95°C) and engine idling, apply 2 in. Hg to hose. If idle does not change, and vacuum holds, system is functioning properly.

3) Apply 7.7 in. Hg. If vacuum holds and idle becomes unstable or engine stalls, EGR system is functioning properly.

Montero (M/T), Raider (M/T) & All Other California
Models (Ported EGR Valve)

1) Connect a vacuum tee into Green-striped hose from EGR valve and connect a vacuum pump to vacuum tee. With engine temperature 68°F (20°C) or less and engine idling, snap throttle opened and closed. If no change in vacuum reading on vacuum pump gauge is detected, system is functioning properly.

2) With engine temperature 158°F (70°C) or higher and engine idling, snap throttle open to race engine. If vacuum is now indicated on vacuum pump gauge, system is functioning properly.

3) Using a vacuum pump, apply specified vacuum to open EGR valve. See appropriate EGR VALVE SPECIFICATIONS table. If idle becomes unstable or engine stalls, EGR system is functioning properly.

EGR VALVE SPECIFICATIONS TABLE (1989 Models)

| Application | Closed In. Hg | Open In. Hg |
|-------------------------------------|------------------|----------------|
| Colt, Colt Wagon, Mirage | 1.8 | 7.7 |
| Colt Vista | 2.1 | 6.8 |
| Galant, Sigma | 1.7 | 7.5 |
| Montero, Raider, Van/Wagon | 1.9 | 6.7 |

EGR VALVE SPECIFICATIONS TABLE (1990 Models)

| Application | Closed In. Hg | Open In. Hg |
|--|------------------|----------------|
| Colt, Colt 200, Mirage & Colt Wagon | 1.8 | 7.7 |
| Colt Vista | 2.1 | 6.8 |
| Eclipse | 1.8 | 8.5 |
| Galant | 1.7 | 7.5 |
| Pickup, Ram-50 | 1.2 | 9.4 |
| Precis | 1.0 | 3.3 |
| Sigma | 1.6 | 8.7 |

Van/Wagon 1.9 6.7

EGR VALVE SPECIFICATIONS TABLE (1991 Models)

| Application | Closed In. Hg | Open In. Hg |
|---|------------------|----------------|
| Colt, Colt 200, Colt Vista, Mirage & Summit | 2.1 | 6.8 |
| Eclipse | 1.8 | 8.5 |
| Galant | 1.7 | 7.5 |
| Montero | 2.4 | 6.7 |
| Pickup, Ram-50 | 1.2 | 9.4 |
| Precis | 1.0 | 3.3 |
| Stealth & 3000GT | 1.8 | 9.1 |

EGR VALVE SPECIFICATIONS TABLE (1992-94 Models)

| Application | Closed In. Hg | Open In. Hg |
|---|------------------|----------------|
| Colt, Colt 200, Mirage & Summit | 2.1 | 6.8 |
| Diamante, Stealth & 3000GT | 1.8 | 9.1 |
| Eclipse | 1.8 | 8.5 |
| Expo, Summit Wagon & Vista Wagon | 1.6 | 7.9 |
| Galant | 1.7 | 7.5 |
| Montero | 2.4 | 6.7 |
| Pickup, Ram-50 | 1.2 | 9.4 |
| Precis | 1.0 | 3.3 |
