

# K - SENSOR RANGE CHARTS

## 1994 Mitsubishi 3000GT

1994 ENGINE PERFORMANCE

Chrysler Corp./Mitsubishi Sensor Operating Range Charts

Dodge; Stealth  
Mitsubishi; 3000GT

### INTRODUCTION

Sensor operating range information can help determine if a sensor is out of calibration. An out-of-calibration sensor may not set a trouble code, but it may cause driveability problems.

NOTE: Unless stated otherwise in test procedure, perform all voltage tests using a Digital Volt-Ohmmeter (DVOM) with a minimum 10-megohm input impedance. For connector and terminal identification, see L - WIRING DIAGRAMS article in the ENGINE PERFORMANCE Section.

AIRFLOW METER HERTZ TEST TABLE (1)

| Condition        | Hz     |
|------------------|--------|
| Stealth & 3000GT |        |
| SOHC             |        |
| 700 RPM .....    | 21-47  |
| 2000 RPM .....   | 57-97  |
| DOHC (Non-Turbo) |        |
| 700 RPM .....    | 22-48  |
| 2000 RPM .....   | 50-90  |
| DOHC (Turbo)     |        |
| 700 RPM .....    | 21-47  |
| 2000 RPM .....   | 68-108 |

(1) - Measure hertz frequency with Multi-Use Tester (MUT-II).

COOLANT TEMPERATURE SENSOR RESISTANCE TABLE

| Temperature<br>°F (°C) | Ohms |
|------------------------|------|
| All Models             |      |
| 32 (0) .....           | 5800 |
| 68 (20) .....          | 2400 |
| 104 (40) .....         | 1100 |
| 176 (80) .....         | 300  |

EGR TEMPERATURE SENSOR RESISTANCE TEST TABLE (1) (2)

| Temperature<br>°F (°C) | Ohms  |
|------------------------|-------|
| 122 (50) .....         | 60-83 |
| 212 (100) .....        | 11-14 |

(1) - Measure resistance across disconnected sensor terminals.

(2) - Specifications apply to all models.

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#### INTAKE AIR TEMPERATURE SENSOR RESISTANCE TABLE

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| Temperature<br>°F (°C) | Ohms |
|------------------------|------|
| All Models             |      |
| 32 (0) .....           | 6000 |
| 68 (20) .....          | 2700 |
| 176 (80) .....         | 400  |

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#### OXYGEN SENSOR VOLTAGE TEST TABLE (1)

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| Application | Volts |
|-------------|-------|
| All Models  |       |
| Lean .....  | 0.1   |
| Rich .....  | 1.0   |

(1) - Test at normal operating temperature.

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#### Throttle Position Sensor (TPS)

Measure total and variable resistance between specified TPS connector terminals. See TPS TEST TERMINALS table. Total resistance should be 3500-6500 ohms. Variable resistance should change smoothly between 3500 and 6500 ohms as throttle valve is moved from closed to wide open throttle.

#### TPS TEST TERMINALS TABLE

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| Application               | Terminals No. |
|---------------------------|---------------|
| Total Resistance .....    | 1 & 4         |
| Variable Resistance ..... | 2 & 4         |

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#### VEHICLE SPEED SENSOR CONTINUITY TEST TABLE (1)

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| Application      | (2) Continuity           |
|------------------|--------------------------|
| All Models ..... | 4 Changes Per Revolution |

- (1) - Measure continuity at back of speedometer. See appropriate wiring diagram in L - WIRING DIAGRAMS article in the ENGINE PERFORMANCE Section.
- (2) - With ECM connector disconnected, turn speedometer cable to cycle reed switch on and off.
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#### VEHICLE SPEED SENSOR VOLTAGE TEST TABLE (1)

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| Application               | (2) Volts |
|---------------------------|-----------|
| All Models                |           |
| Ignition Switch Off ..... | 1 Or Less |
| Ignition Switch On .....  | 4.5-4.9   |

- (1) - Measure voltage at back of speedometer. See appropriate wiring diagram in L - WIRING DIAGRAMS article in the ENGINE PERFORMANCE Section.
  - (2) - With ECM connector disconnected, turn speedometer cable to cycle reed switch on and off.
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