Coolant Temperature Sensor/Switch (For Computer): Testing and Inspection **ENGINE COOLANT TEMPERATURE SENSOR**

To perform a complete test of the engine coolant temperature sensor and its circuitry, refer to **Powertrain Management / Computers and Control Systems / Testing and Inspection**.

See: Computers and Control Systems/Testing and Inspection

To test the sensor only, refer to the following:

an open circuit is indicated.

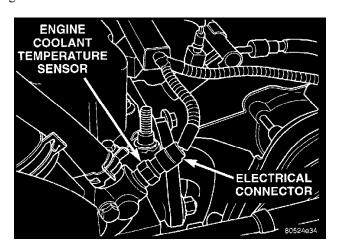


Fig. 29 Engine Coolant Temperature Sensor-Typical

1. Disconnect wire harness connector from coolant temperature sensor (Fig. 29).

TEMPERATURE		RESISTANCE (OHMS)	
С	F	MIN	MAX
-40 -20 -10 0 10 20 25 30 40 50 60 70 80 90 110 120	-40 -4 14 32 50 68 77 86 104 122 140 158 176 194 212 230 248	291,490 85,850 49,250 29,330 17,990 11,370 9,120 7,370 4,900 3,330 2,310 1,630 1,170 860 640 480 370	381,710 108,390 61,430 35,390 21,810 13,610 10,880 8,750 5,750 3,880 2,670 1,870 1,340 970 720 540 410
J928-D4			

Sensor Resistance (Ohms)-Coolant Temperature Sensor/Intake Air Temperature Sensor

- 2. Test the resistance of the sensor with a high input impedance (digital) volt-ohmmeter. The resistance (as measured across the sensor terminals) should be **less than 1340 ohms** with the engine warm. Refer to the Coolant Temperature sensor/Intake Air Temperature sensor resistance chart. Replace the sensor if it is not within the range of resistance specified in the chart.
- 3. Test continuity of the wire harness between the PCM wire harness connector and the coolant sensor connector terminals. Repair the wire harness if