



**BOSCH ECU CONNECTOR PIN-OUT**

Disconnect the ECU from the MPEM and check terminals as per the following table:

PIN NO.	DESCRIPTION
1	Ignition Coil no. 1 - Control
2	Ignition Coil no. 2- Control
3	Ignition Ground - Common
25	Air Pressure Sensor Ground
26	Engine Water Temperature Sensor Ground
27	Air Temperature Sensor Ground
28	Air Temperature Sensor Signal
29	Engine Water Temperature Sensor Signal
30	Air Pressure Sensor Signal
31	Throttle Position Sensor Signal
32	Air Pressure Sensor Supply Voltage
33	Serial Communication Line
34	Fuel Pump Relay Control
37	Throttle Position Sensor Supply Voltage
38	Engine Over-Temperature Signal - Info Center
39	Maintenance Signal - Info Center

PIN NO.	DESCRIPTION
41	Tachometer Signal - Info Center
42	Engine Speed Sensor Input
43	Engine Speed Sensor Input
44	Electronic Ground
45	Electronic Ground
46	Electronic Ground
47	Throttle Position Sensor Ground
63	ECU Power-Up Battery Voltage Supply
64	ECU Power-Up Battery Voltage Supply
65	ECU Permanent Battery Voltage Supply
67	Fuel Injector Cylinder no. 2 Control
68	Fuel Injector Cylinder no. 2 Control
69	Fuel Injector Cylinder no. 1 Control
70	Fuel Injector Cylinder no. 1 Control
73	RAVE Vacuum Solenoid Control
74	CPI Control (not active in 1999)



Unplug the AMP connector number 4 and use the following table to check the resistance values. If improper values are noticed, check for bad connections and the component itself.

COMPONENT	TERMINAL NUMBER	WIRE COLOR	RESISTANCE VALUE
Air pressure sensor	1 and 2	PU/BL and BK/BL	2.4 k - 8.2 k ohms
	9 and 2	WH/BL and BK/BL	3.4 k - 8.2 k ohms
Throttle position sensor	3 and 4	PU/BW and BK/BW	1.6 k - 2.4 k ohms
	4 and 11	BK/BW and WH/BW	710 - 1390 ohms
Water temperature sensor	5 and 12	BK/OR and TA/OR	2280 - 2736 ohms
Air temperature sensor	6 and 13	BK/WH and WH/GY	2280 - 2736 ohms
Crankshaft position sensor	7 and 14	GY/YL and GY/RE	774 - 946 ohms
RAVE solenoid	16 and 23	PU/GY and BK/GY	30 ohms
Fuel Injector no. 1	18 and 20	BL/PU and BL/BK	2.3 - 2.5 ohms
Fuel Injector no. 2	19 and 21	GR/PU and BK/GR	2.3 - 2.5 ohms

If the resistance values of the circuits and components are within specification when checked at AMP connector number 4, check the connector between MPEM and ECU.



1. Connection between ECU and MPEM