

## J - PIN VOLTAGE CHARTS

**TKD Electronics**  
INGENIO, INNOVACION Y SERVICIO

**Fig. 1: 323 ECU Terminal Voltage & Sensor Range (1 of 3)**

Courtesy of Mazda Motors Corp.  
1989 Mazda 323

Terminal	Connected to	Voltage	Condition	Remark
1A (Output)	MIL	Below 2.5V	Ignition switch OFF → ON for 3 sec.	Test connector grounded
		Approx. 12V	After 3 sec.	
1B (Output)	Self-Diagnosis Checker (for Code No.)	Below 2.5V	Ignition switch OFF → ON for 3 sec.	<ul style="list-style-type: none"> <li>• Test connector grounded</li> <li>• Checker connected</li> </ul>
		Approx. 12V	After 3 sec.	
1C	—	—	—	—
1D (Output)	Self-Diagnosis Checker (for Monitor lamp)	Approx. 5V	Ignition switch OFF → ON for 3 sec.	<ul style="list-style-type: none"> <li>• Test connector grounded</li> <li>• Checker connected</li> </ul>
		Approx. 10V	After 3 sec.	
1E (Input)	Throttle sensor (IDL switch)	Approx. 12V	Accelerator pedal depressed	
		Below 1.5V	Accelerator pedal released	
1F (Output)	A/C control relay	Approx. 12V	Ignition switch ON	
		Below 1.5V	A/C switch ON (at idle)	
1G (Input)	Neutral/clutch switch	Approx. 12V	Clutch pedal depressed	In-gear condition
		Below 1.5V	Clutch pedal released	
1H (Input)	Water thermo switch (Radiator)	Approx. 12V	Below 17°C (63°F)	
		Below 1.5V	Above 17°C (63°F)	
1I (Input)	Electrical load (E/L) switch	Approx. 2.5V	E/L switch ON	
		Approx. 10V	E/L switch OFF	