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1990 MAZDA 323 (BG) Hatchback OEM Service and Repair Workshop Manual

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DTC No.	Check engine light	Master warning indication/master warning light	Charging system warning indication/charging system warning light	Engine oil warning indication/engine oil warning light	Engine oil level warning indication/Engine oil level warning light	Wrench warning indication	Diesel particulate filter indication/Diesel particulate filter indicator light	Glow Indicator Light	SCR warn indi CR s warn light
P10CD:00	ON	OFF	OFF	OFF	OFF	OFF	OFF	OFF	
P10D1:00	ON	OFF	OFF	OFF	OFF	OFF	OFF	OFF	
P10D2:00	ON	OFF	OFF	OFF	OFF	OFF	OFF	OFF	
P10D3:00	ON	OFF	OFF	OFF	OFF	OFF	OFF	OFF	
P10D4:00	ON	OFF	OFF	OFF	OFF	OFF	OFF	OFF	
P10D5:00	ON	OFF	OFF	OFF	OFF	OFF	OFF	OFF	

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P166D:00	ON	OFF	OFF	OFF	OFF	OFF	OFF	OFF	
P166E:00	ON	OFF	OFF	OFF	OFF	OFF	OFF	OFF	
P1905:00	OFF	Indication/illumination	OFF	OFF	OFF	OFF	OFF	OFF	
P2000:00	ON	OFF	OFF	OFF	OFF	OFF	OFF	OFF	
P2031:00	ON	OFF	OFF	OFF	OFF	OFF	OFF	OFF	
P2032:00	ON	OFF	OFF	OFF	OFF	OFF	OFF	OFF	
P2033:00	ON	OFF	OFF	OFF	OFF	OFF	OFF	OFF	
P203F:00	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	O *9/
P206B:00	ON	OFF	OFF	OFF	OFF	OFF	OFF	OFF	

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P2185:00	ON	OFF	OFF	OFF	OFF	OFF	OFF	OFF	
P2195:00	ON	OFF	OFF	OFF	OFF	OFF	OFF	OFF	
P2196:00	ON	OFF	OFF	OFF	OFF	OFF	OFF	OFF	
P21CE:00	ON	OFF	OFF	OFF	OFF	OFF	OFF	OFF	
P2227:00	ON	OFF	OFF	OFF	OFF	OFF	OFF	OFF	
P2228:00	ON	OFF	OFF	OFF	OFF	OFF	OFF	OFF	
P2229:00	ON	OFF	OFF	OFF	OFF	OFF	OFF	OFF	
P2263:00	ON	OFF	OFF	OFF	OFF	OFF	OFF	OFF	
P226C:00	ON	OFF	OFF	OFF	OFF	OFF	OFF	OFF	
P226D:00	ON	OFF	OFF	OFF	OFF	OFF	OFF	OFF	
P2299:00	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	

DTC No.	Check engine light	Master warning indication/master warning light	Charging system warning indication/charging system warning light	Engine oil warning indication/engine oil warning light	Engine oil level warning indication/Engine oil level warning light	Wrench warning indication	Diesel particulate filter indication/Diesel particulate filter indicator light	Glow Indicator Light	SCR warn indi CR s warn light
P2494:00	ON	OFF	OFF	OFF	OFF	OFF	OFF	OFF	
P2495:00	ON	OFF	OFF	OFF	OFF	OFF	OFF	OFF	
P24A0:00	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	
P24A1:00	ON	OFF	OFF	OFF	OFF	OFF	OFF	OFF	
P24A2:00	ON	OFF	OFF	OFF	OFF	OFF	OFF	OFF	
P24A4:00	ON	OFF	OFF	OFF	OFF	OFF	ON	OFF	
P24A5:00	ON	OFF	OFF	OFF	OFF	OFF	OFF	OFF	
P24C4:00	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	

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P2A02:00	ON	OFF	OFF	OFF	OFF	OFF	OFF	OFF	
P2BA9:00	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	
P2BAF:00	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	
P3101:00	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	
P3102:00	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	
P3103:00	ON	OFF	OFF	OFF	OFF	OFF	OFF	OFF	
P3104:00	ON	OFF	OFF	OFF	OFF	OFF	OFF	OFF	
P3105:00	ON	OFF	OFF	OFF	OFF	OFF	OFF	OFF	

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U0101:00	ON	OFF	OFF	OFF	OFF	OFF	OFF	OFF	
U0104:00 *8	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	
U0106:00	ON	OFF	OFF	OFF	OFF	OFF	OFF	OFF	
U010E:00	ON	OFF	OFF	OFF	OFF	OFF	OFF	OFF	

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U053B:00	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	
U1100:00	OFF	Indication/illumination *3	OFF	OFF	OFF	OFF	OFF	OFF	
U1201:00	ON	OFF	OFF	OFF	OFF	OFF	OFF	OFF	
U1202:00	ON	OFF	OFF	OFF	OFF	OFF	OFF	OFF	
U1203:00	ON	OFF	OFF	OFF	OFF	OFF	OFF	OFF	
U1204:00	ON	OFF	OFF	OFF	OFF	OFF	OFF	OFF	
U2300:00	OFF	Indication/illumination *3	OFF	OFF	OFF	OFF	OFF	OFF	

STEP	INSPECTION	RESULTS	ACTION
1	RECORD VEHICLE STATUS AT TIME OF DTC DETECTION TO UTILIZE WITH REPEATABILITY VERIFICATION Note • Recording can be facilitated using the screen capture function of the PC. • Record the snapshot data on the repair order.	–	Go to the next step.
2	VERIFY RELATED REPAIR INFORMATION AVAILABILITY • Verify related Service Bulletins and/or on-line repair information availability. • Is any related repair information available?	Yes	Perform repair or diagnosis according to the available repair information. • If the vehicle is not repaired, go to the next step.
		No	Go to the next step.
3	INSPECT REFRIGERANT PRESSURE SENSOR CONNECTOR CONDITION • Switch the ignition off. • Disconnect the refrigerant pressure sensor connector. • Inspect for poor connection (such as damaged/pulled-out pins, corrosion). • Is there any malfunction?	Yes	Repair or replace the connector and/or terminals, then go to Step 9.
		No	Go to the next step.
4	INSPECT PCM CONNECTOR CONDITION • Disconnect the PCM connector. • Inspect for poor connection (such as damaged/pulled-out pins, corrosion). • Is there any malfunction?	Yes	Repair or replace the connector and/or terminals, then go to Step 9.
		No	Go to the next step.
5	INSPECT REFRIGERANT PRESSURE SENSOR CIRCUIT FOR SHORT TO GROUND • Verify that the refrigerant pressure sensor and PCM connectors are disconnected. • Inspect for continuity between the following terminals (wiring harness-side) and body ground: — Refrigerant pressure sensor terminal A — Refrigerant pressure sensor terminal B • Is there continuity?	Yes	Refer to the wiring diagram and verify whether or not there is a common connector between the following terminals: • Refrigerant pressure sensor terminal A– PCM terminal 2BB • Refrigerant pressure sensor terminal B– PCM terminal 2BH If there is a common connector: • Determine the malfunctioning part by inspecting the common connector and the terminal for corrosion, damage, or pin disconnection, and the common wiring harness for a short to ground. • Repair or replace the malfunctioning part. If there is no common connector: • Repair or replace the wiring harness which has a short to ground. Go to Step 9.
		No	Go to the next step.

STEP	INSPECTION	RESULTS	ACTION
1	RECORD VEHICLE STATUS AT TIME OF DTC DETECTION TO UTILIZE WITH REPEATABILITY VERIFICATION Note • Recording can be facilitated using the screen capture function of the PC. • Record the snapshot data on the repair order.	–	Go to the next step.
2	VERIFY RELATED REPAIR INFORMATION AVAILABILITY • Verify related Service Bulletins and/or on-line repair information availability. • Is any related repair information available?	Yes	Perform repair or diagnosis according to the available repair information. • If the vehicle is not repaired, go to the next step.
		No	Go to the next step.
3	INSPECT REFRIGERANT PRESSURE SENSOR CONNECTOR CONDITION • Switch the ignition off. • Disconnect the refrigerant pressure sensor connector. • Inspect for poor connection (such as damaged/pulled-out pins, corrosion). • Is there any malfunction?	Yes	Repair or replace the connector and/or terminals, then go to Step 9.
		No	Go to the next step.
4	INSPECT PCM CONNECTOR CONDITION • Disconnect the PCM connector. • Inspect for poor connection (such as damaged/pulled-out pins, corrosion). • Is there any malfunction?	Yes	Repair or replace the connector and/or terminals, then go to Step 9.
		No	Go to the next step.
5	INSPECT REFRIGERANT PRESSURE SENSOR CIRCUIT FOR SHORT TO POWER SUPPLY • Verify that the refrigerant pressure sensor and PCM connectors are disconnected. • Switch the ignition ON (engine off). Note • Another DTC may be stored by the PCM detecting an open circuit. • Measure the voltage at the refrigerant pressure sensor terminal B (wiring harness-side). • Is the voltage 0 V?	Yes	Go to the next step.
		No	Refer to the wiring diagram and verify whether or not there is a common connector between refrigerant pressure sensor termina B and PCM terminal 2BH. If there is a common connector: • Determine the malfunctioning part by inspecting the common connector and the terminal for corrosion, damage, or pin disconnection, and the common wiring harness for a short to power supply. • Repair or replace the malfunctioning part. If there is no common connector: • Repair or replace the wiring harness which has a short to power supply. Go to Step 9.
6	INSPECT REFRIGERANT PRESSURE SENSOR POWER SUPPLY CIRCUIT AND SIGNAL CIRCUIT FOR SHORT TO EACH OTHER • Verify that the refrigerant pressure sensor and PCM connectors are disconnected. • Switch the ignition off. • Inspect for continuity between refrigerant pressure sensor terminals A and B (wiring harness-side). • Is there continuity?	Yes	Refer to the wiring diagram and verify whether or not there is a common connector between the following terminals: • Refrigerant pressure sensor terminal A– PCM terminal 2BB • Refrigerant pressure sensor terminal B– PCM terminal 2BH If there is a common connector: • Determine the malfunctioning part by inspecting the common connector and the terminal for corrosion, damage, or pin disconnection, and the common wiring harness for a short to each other. • Repair or replace the malfunctioning part. If there is no common connector: • Repair or replace the wiring harness which has a short to each other. Go to Step 9.
		No	Go to the next step.