2012 - Mazda6 - Body and Accessories

QUICK DIAGNOSTIC CHART [INSTRUMENT CLUSTER (WITHOUT MALFUNCTION WARNING LIGHT)]

X: Applicable

No.	Troubleshooting item / Possible factor	Poor connection of fuel gauge sender unit connector, terminal damage	Poor connection of instrument cluster connector, terminal damage	Fuel gauge sender unit	Instrument cluster	Fuel gauge sender unit is improperly installed	Open or short circuit in wiring harness between instrument cluster and ground	Open or short circuit in wiring harness between instrument cluster and fuel gauge sender unit	Fuse malfunction (METER IG)	Open or short circuit in power supply (IG1) wiring harness	Open or short circuit in ground wiring harness DSC HU/CM	Poor connection of DSC HU/CM connector, terminal damage	DSC HU/CM	Short circuit in wiring harness between CAN-L, CAN-H and ground	Open circuit in CAN wiring harness (CAN-L, CAN-H)	CAN wiring harness (CAN-L, CAN-H) short each other	Poor connection of PCM connector, terminal damage	PCM	Poor connection of brake fluid level sensor connector, terminal damage	Brake fluid level sensor	Poor connection of Parking brake switch connector, terminal damage	Parking brake switch	Fuse malfunction (ROOM, ILLUMI)	DSC configuration incomplete or in error	Instrument cluster configuration incomplete or in error	BCM malfunction	Malfunction in brake switch input to PCM	Light switch malfunction	Malfunction in vehicle wiring harness between light switch
1	Fuel gauge needle position incorrect	X	X	X	X	X	X	X																					
2	All meters and gauges do not operate		X		X				X	X	X																		
3	ABS warning light illuminates		X		X							X	X	X	X	X								X	X				
4	MIL illuminates		X		X									X	X	X	X	X											
5	Brake system warning light illuminates		X		X							X	X	X	X	X			X	X	X	X					X		
6	Instrument cluster illumination does not illuminate when taillights illuminate		X		X									X	X	X							X			X		X	X
7	Instrument cluster illumination does not dim when taillights illuminate		X		X									X	X	X							X			X		X	X
8	Speedometer indication is defective		X		X							X	X	X	X	X	X	X											
9	Tachometer indication is defective		X		X									X	X	X	X	X											
10	Water temperature gauge indication is defective		X		X									X	X	X	X	X											

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No.	Troubleshooting item / Possible factor	Poor connection of fuel gauge sender unit connector, terminal damage	Poor connection of instrument cluster connector, terminal damage	Fuel gauge sender unit	Instrument cluster	Fuel gauge sender unit is improperly installed	Open or short circuit in wiring harness between instrument cluster and ground	Open or short circuit in wiring harness between instrument cluster and fuel gauge sender unit	Fuse malfunction (METER IG)	Open or short circuit in power supply (IG1) wiring harness	Open or short circuit in ground wiring harness DSC HU/CM	Poor connection of DSC HU/CM connector, terminal damage	DSC HU/CM	Short circuit in wiring harness between CAN-L, CAN-H and ground	Open circuit in CAN wiring harness (CAN-L, CAN-H)	CAN wiring harness (CAN-L, CAN-H) short each other	Poor connection of PCM connector, terminal damage	PCM	Poor connection of brake fluid level sensor connector, terminal damage	Brake fluid level sensor	Poor connection of Parking brake switch connector, terminal damage	Parking brake switch	Fuse malfunction (ROOM, ILLUMI)	DSC configuration incomplete or in error	Instrument cluster configuration incomplete or in error	BCM malfunction	Malfunction in brake switch input to PCM	Light switch malfunction	Malfunction in vehicle wiring harness between light switch
1	Fuel gauge needle position incorrect	X	X	X	X	X	X	X																					
2	All meters and gauges do not operate		X		X				X	X	X																		
3	ABS warning light illuminates		X		X							X	X	X	X	X								X	X				
4	MIL illuminates		X		X									X	X	X	X	X											
5	Brake system warning light illuminates		X		X							X	X	X	X	X			X	X	X	X					X		
6	Instrument cluster illumination does not illuminate when taillights illuminate		X		X									X	X	X							X			X		X	X
7	Instrument cluster illumination does not dim when taillights illuminate		X		X									X	X	X							X			X		X	X
8	Speedometer indication is defective		X		X							X	X	X	X	X	X	X											
9	Tachometer indication is defective		X		X									X	X	X	X	X											
10	Water temperature gauge indication is defective		X		X									X	X	X	X	X											

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