

2012 - Mazda6 - Body and Accessories

NO. 3 ABS WARNING LIGHT ILLUMINATES [INSTRUMENT CLUSTER (WITH MALFUNCTION WARNING LIGHT)]

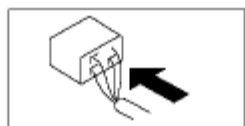
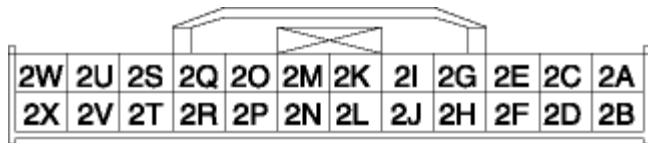
3	ABS warning light illuminates
POSSIBLE CAUSE	• DSC HU/CM malfunction • DSC HU/CM stores DTC • Instrument cluster malfunction • Connector or pin malfunction • Short circuit in wiring harness between CAN-L, CAN-H and ground • Open circuit in CAN wiring harness (CAN-L, CAN-H) • CAN wiring harness (CAN-L, CAN-H) short each other • Instrument cluster and DSC HU/CM configuration data do not coincide • Instrument cluster configuration incomplete or in error

Diagnostic procedure

STEP	INSPECTION	ACTION
1	• Start the engine. • Does the ABS warning light turn off?	Yes Troubleshooting completed. (The system is normal.)
		No Go to the next step.
2	• Start the engine. • Inspect the condition of the warning lights and indicator lights condition. • Do two or more lights illuminate at the same time.	Yes Go to Step 5.
		No Go to the next step.
3	• Retrieve the DTC related to the DSC HU/CM using the M-MDS. (See ON-BOARD DIAGNOSIS [DYNAMIC	Yes Go to the applicable troubleshooting procedure. (See ON-BOARD DIAGNOSIS [DYNAMIC

	STABILITY CONTROL (DSC)] .) Is there any DTC retrieved?		STABILITY CONTROL (DSC)] .)
		No	Go to the next step.
4	- Turn off the ABS warning light using the M-MDS instrument cluster active command modes WL+IL. (See ACTIVE COMMAND MODES TABLE [INSTRUMENT CLUSTER] .) - Does the ABS warning light turn off according to the active command modes?	Yes	Verify that the DSC HU/CM connector is connected securely. If the DSC HU/ CM connector is poorly connected: - Connect the DSC HU/CM connector securely. If a malfunction is in the DSC HU/ CM connector: - Replace the DSC HU/CM. (See DSC HU/ CM REMOVAL/ INSTALLATION .) If a malfunction is in the vehicle side connector: - Repair or replace the malfunctioning part.
		No	Replace the instrument cluster. (See INSTRUMENT CLUSTER REMOVAL/ INSTALLATION .)
5	- Retrieve the DTC related to the instrument cluster using the M-MDS. (See DTC INSPECTION [INSTRUMENT CLUSTER] .) NOTE: - If a DTC related to a missing message from the DSC HU/CM is recorded, verify that the ignition voltage is normal (11 V or more). - If the voltage is low (11 V or less), there is the possibility that a DTC has been mistakenly recorded.	Yes	Go to the applicable DTC inspection. (See DTC TABLE [INSTRUMENT CLUSTER] .)
		No	Go to the next step.

	Is there any DTC retrieved?		
6	• Disconnect the negative battery cable. • Measure the resistance between the DLC-2 terminals F and E. • Is the resistance below 60 ohms?	Yes	Go to the next step.
		No	Go to step 8.
7	• Inspect DLC-2 terminals F and E for a short to the power supply or ground. • Is there any malfunction?	Yes	• Inspect the wiring harness and CAN system-related module. • Repair or replace the malfunctioning part.
		No	Replace the instrument cluster.
8	• Switch the ignition to off. • Inspect the instrument cluster connector terminals for poor connection (such as damaged/pulled-out pins, and corrosion). • Are the terminals normal?	Yes	Go to the next step.
		No	Repair or replace the terminal.
9	• Disconnect the negative battery cable. • Measure the resistance between the instrument cluster connector terminals 2X and 2W. • Is the resistance 114—126 ohms?	Yes	• Inspect the wiring harness and CAN system-related module. • Repair or replace the malfunctioning part.
		No	Replace the instrument cluster. (See INSTRUMENT CLUSTER REMOVAL/ INSTALLATION.)



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