

2012 - Mazda6 - Body and Accessories

NO. 6 INSTRUMENT CLUSTER ILLUMINATION DOES NOT ILLUMINATE WHEN TAILLIGHTS ILLUMINATE [INSTRUMENT CLUSTER (WITHOUT MALFUNCTION WARNING LIGHT)]

6	Instrument cluster illumination does not illuminate when taillights illuminate
POSSIBLE CAUSE	• Instrument cluster malfunction • Connector or pin malfunction • Fuse malfunction • BCM 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 • Light switch malfunction • Malfunction in vehicle wiring harness between light switch and BCM

Diagnostic procedure

STEP	INSPECTION	ACTION
1	• Turn the light switch to the TNS position. • Does the instrument cluster illumination turn on?	Yes Troubleshooting completed. (The system is normal.)
		No Go to the next step.
2	• Inspect the ROOM and ILLUMI fuse. • Are the fuses normal?	Yes Go to the next step.
		No Replace the fuse. • If the fuse is melted, inspect the wiring harness for short to ground. Repair or replace the wiring harness, then replace the fuse.
3	• Retrieve DTCs from	Yes Go to the applicable DTC inspection.

	the instrument cluster and BCM using the M-MDS. (See DTC INSPECTION [INSTRUMENT CLUSTER].) (See DTC INSPECTION [BCM].) • Can DTCs be verified?		(See DTC TABLE [INSTRUMENT CLUSTER].) (See DTC TABLE [BCM].)
		No	Go to the next step.
4	• Monitor the BCM PID TNS_SW using the M-MDS. (See PID/ DATA MONITOR INSPECTION [BCM].) • Does the M-MDS monitored value correspond to the light switch position?	Yes	Replace the instrument cluster.
		No	Inspect the following and repair or replace the malfunctioning location. • Light switch (See LIGHT SWITCH INSPECTION.) • Vehicle wiring harness between light switch and BCM

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