

2012 - Mazda6 - Body and Accessories

NO. 7 INSTRUMENT CLUSTER ILLUMINATION DOES NOT DIM WHEN TAILLIGHTS ILLUMINATE [INSTRUMENT CLUSTER (WITHOUT MALFUNCTION WARNING LIGHT)]

7	Instrument cluster illumination does not dim 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 ON position. • Does the instrument cluster illumination dim according to the illumination setting?	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 the instrument cluster and BCM using the M-MDS. (See DTC INSPECTION [INSTRUMENT CLUSTER].) (See DTC INSPECTION [BCM].) - Can DTCs be verified?	Yes	Go to the applicable DTC inspection. (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. (See INSTRUMENT CLUSTER REMOVAL/ INSTALLATION .)
		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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