

2012 - Mazda6 - Body and Accessories

NO.3 BSM OFF INDICATOR LIGHT ILLUMINATES CONTINUOUSLY [BLIND SPOT MONITORING (BSM)]

3	BSM OFF indicator light illuminates continuously
DESCRIPTION	The BSM OFF indicator light illuminates for 4 s or more without the BSM OFF switch turning off after the ignition switch is turned to the ON position.
Possible Causes	- Malfunction in BSM OFF switch related parts - BSM OFF switch malfunction (stuck at on) - Short to ground circuit in wiring harness between BSM OFF switch and BSM control module (RH) terminal E - Instrument cluster does not turn off BSM OFF indicator light - BSM control module (RH) malfunction - Communication error between BSM control module (RH) and instrument cluster - Instrument cluster malfunction

Diagnostic Procedure

Step	Inspection	Action
1	VERIFY DTCs - Retrieve DTCs from the BSM control module (RH) and instrument cluster using the M-MDS. (See DTC INSPECTION [INSTRUMENT CLUSTER].) (See DTC INSPECTION [BLIND SPOT MONITORING (BSM)].) - Are any DTCs displayed?	Yes Go to the applicable DTC inspection. (See DTC TABLE [INSTRUMENT CLUSTER].) (See DTC TABLE [BLIND SPOT MONITORING (BSM)].) No Go to the next step.
2	INSPECT IF MALFUNCTION IS IN BSM	Yes Go to Step 5.

	OFF SWITCH OR INSTRUMENT CLUSTER - Monitor the BSM control module (RH) PID BSM_OFF_IL using the M-MDS. - Turn the BSM OFF switch on and off. - Does the PID BSM_OFF_IL monitoring value turn on and off according to the BSM OFF switch operation?	No	Go to the next step.
3	INSPECT BSM OFF SWITCH - Inspect the BSM OFF switch. (See BLIND SPOT MONITORING (BSM) OFF SWITCH INSPECTION.) - Is the BSM OFF switch normal?	Yes	Go to the next step.
		No	Replace the BSM OFF switch. (See BLIND SPOT MONITORING (BSM) OFF SWITCH REMOVAL/ INSTALLATION .)
4*	INSPECT BSM OFF SWITCH RELATED WIRING HARNESS - Inspect for an open circuit in the following: - Between BSM OFF switch and BSM control module (RH) terminal E - Between BSM OFF switch and ground - Is a short to ground detected?	Yes	Repair or replace the malfunctioning part.
		No	Replace the BSM control module (RH). (See BLIND SPOT MONITORING (BSM) CONTROL MODULE REMOVAL/ INSTALLATION .)
5	INSPECT IF MALFUNCTION IS IN INSTRUMENT CLUSTER OR BSM CONTROL MODULE (RH) - Turn off the BSM OFF indicator light using the M-MDS instrument cluster active command modes WL+IL. (See ACTIVE COMMAND MODES TABLE [INSTRUMENT CLUSTER].) - Does the BSM OFF indicator light turn off according to the active command modes?	Yes	Replace the BSM control module (RH). (See BLIND SPOT MONITORING (BSM) CONTROL MODULE REMOVAL/ INSTALLATION .)
		No	Replace the instrument cluster. (See INSTRUMENT CLUSTER REMOVAL/ INSTALLATION .)

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		No	Replace the instrument cluster. (See INSTRUMENT CLUSTER REMOVAL/ INSTALLATION .)