

2012 - Mazda6 - Body and Accessories

NO.2 BSM OFF INDICATOR LIGHT DOES NOT ILLUMINATE WHILE BSM SYSTEM IS OFF [BLIND SPOT MONITORING (BSM)]

2	BSM OFF indicator light does not illuminate while BSM system is OFF
DESCRIPTION	BSM indicator light does not illuminate even though BSM OFF switch turns off after ignition switch is turned to ON position.
Possible Causes	- Malfunction in BSM OFF switch related parts - BSM OFF switch malfunction (stuck at off) - Open circuit in wiring harness between BSM OFF switch and BSM control module (RH) terminal E - Open circuit in wiring harness between BSM OFF switch and ground - Instrument cluster does not illuminate 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	VERI F Y DTCs - Retrieve DTCs from the BSM control module (RH) and instrument cluster using the M-MDS. (See DTC I NSPECTION [INSTRUMENT CLUSTER].) (See DTC I NSPECTION [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 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?	Yes	Go to Step 5.
		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 an open circuit detected?	Yes	Repair or replace 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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Diagnostic Procedure

Step	Inspection	Action	
1	VER I F Y D T C s - Retrieve DTCs from the BSM control module (RH) and instrument cluster using the M-MDS. (See D T C I N S P E C T I O N [I N S T R U M E N T C L U S T E R] .) (See D T C I N S P E C T I O N [B L I N D S P O T M O N I T O R I N G (B S M)] .) - Are any DTCs displayed?	Yes	Go to the applicable DTC inspection. (See D T C T A B L E [I N S T R U M E N T C L U S T E R] .) (See D T C T A B L E [B L I N D S P O T M O N I T O R I N G (B S M)] .)
		No	Go to the next step.

2	INSPECT IF MALFUNCTION IS IN BSM 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?	Yes	Go to Step 5.
		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 an open circuit detected?	Yes	Repair or replace 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 .)