

2012 - Mazda6 - Body and Accessories

NO.1 BSM OFF INDICATOR LIGHT DOES NOT ILLUMINATE WHEN THE IGNITION IS SWITCHED TO ON [BLIND SPOT MONITORING (BSM)]

1	BSM OFF indicator light does not illuminate when the ignition is switched to ON
DESCRIPTION	- BSM OFF indicator light does not illuminate when the ignition is switched to ON. - The BSM control module does not communicate with the M-MDS.
Possible Causes	- BSM control module (RH) does not initiate - Open or short circuit in BSM control module (RH) power supply circuit (open or short to ground circuit in wiring harness between ignition switch or push button start and BSM control module (RH) terminal B) - Open circuit in BSM control module (RH) ground circuit (open circuit in wiring harness between BSM control module (RH) and ground, poor contact at ground point) - BSM control module (RH) malfunction - Instrument cluster does not illuminate BSM OFF indicator light - Communication error between BSM control module (RH) and instrument cluster

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	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. - If there is a communication malfunction between the M-MDS and the BSM control module, go to Step 3.

	[BLIND SPOT MONITORING (BSM)] .) • Are any DTCs displayed?		
2	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 .)
3*	INSPECT BSM CONTROL MODULE (RH) POWER SUPPLY VOLTAGE • Switch the ignition to ON. • Measure the voltage at BSM control module (RH) terminal B. • Is the voltage B+ ?	Yes	Go to the next step.
		No	Inspect and repair for the following: • Inspect the condition of fuses between the ignition switch or push button start and the BSM control module (RH), and perform repairs at the location where the fuse burned out. • Inspect for an open circuit in the wiring harness between the ignition switch or push button start and the BSM control module (RH).
4*	INSPECT BSM CONTROL MODULE (RH) GROUND CIRCUIT • Switch the ignition to off. • Verify that there is continuity between	Yes	Replace the BSM control module (RH). (See BLIND SPOT MONITORING (BSM) CONTROL MODULE REMOVAL/ INSTALLATION .)
		No	• Inspect and repair the ground point. • If the ground point is not normal, Repair or replace for an open circuit between the BSM control module (RH) and ground.

	the BSM control module (RH) terminal and ground.		
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- Is there continuity?

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1	BSM OFF indicator light does not illuminate when the ignition is switched to ON
DESCRIPTION	- BSM OFF indicator light does not illuminate when the ignition is switched to ON. - The BSM control module does not communicate with the M-MDS.
Possible Causes	- BSM control module (RH) does not initiate - Open or short circuit in BSM control module (RH) power supply circuit (open or short to ground circuit in wiring harness between ignition switch or push button start and BSM control module (RH) terminal B) - Open circuit in BSM control module (RH) ground circuit (open circuit in wiring harness between BSM control module (RH) and ground, poor contact at ground point) - BSM control module (RH) malfunction - Instrument cluster does not illuminate BSM OFF indicator light - Communication error between BSM control module (RH) and instrument cluster

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	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. - If there is a communication malfunction between the M-MDS and the BSM control module, go to Step 3.

	[BLIND SPOT MONITORING (BSM)] .) Are any DTCs displayed?		
2	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.)
3*	INSPECT BSM CONTROL MODULE (RH) POWER SUPPLY VOLTAGE - Switch the ignition to ON. - Measure the voltage at BSM control module (RH) terminal B. - Is the voltage B+?	Yes	Go to the next step.
		No	Inspect and repair for the following: - Inspect the condition of fuses between the ignition switch or push button start and the BSM control module (RH), and perform repairs at the location where the fuse burned out. - Inspect for an open circuit in the wiring harness between the ignition switch or push button start and the BSM control module (RH).
4*	INSPECT BSM CONTROL MODULE (RH) GROUND CIRCUIT - Switch the ignition to off. - Verify that there is continuity between	Yes	Replace the BSM control module (RH). (See BLIND SPOT MONITORING (BSM) CONTROL MODULE REMOVAL/ INSTALLATION.)
		No	- Inspect and repair the ground point. - If the ground point is not normal, Repair or replace for an open circuit between the BSM control module (RH) and ground.

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