

BSM INDICATOR LIGHT DOES NOT ILLUMINATE WHILE UNDER BSM INDICATOR LIGHT-ILLUMINATION CONDITIONS [BLIND SPOT MONITORING (BSM)]

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Description	BSM indicator light does not illuminate while under BSM indicator light-illumination conditions
Possible Causes	<ul style="list-style-type: none"> The BSM indicator light does not illuminate despite satisfying the conditions to illuminate the BSM indicator light (vehicle speed above 32 km/h {20 mph} or more, turn signals off, and vehicle in warning zone). The BSM control module mistakenly recognizes a vehicle as being outside of the warning zone when it actually inside of it. <ul style="list-style-type: none"> Radar (BSM control module integrated) is not emitted inside of warning zone (unable to emit radar inside warning zone) <ul style="list-style-type: none"> Damage, deformity or looseness to installation bracket or vehicle frame (including moderate impacts) Malfunction in steering angle sensor ((instrument cluster or EPS control module malfunction) Problem with rear bumper such as soiling to radar emitting/receiving area, application of stickers (including transparent types), repairs using putty application. BSM control module does not receive echo-back correctly BSM control module (radar) malfunction Problem with rear bumper such as soiling to radar emitting/receiving area, application of stickers (including transparent types), repairs using putty application. <p>Note</p> <ul style="list-style-type: none"> Rear bumper problem such defective installation of rear bumper, excessive soiling on the radar emitting/receiving area, sticker adhesion (including transparent types), repairs to rear bumper using putty Non-genuine bumper, paint, or installation of after-market parts negatively affecting radar echo-back ability <ul style="list-style-type: none"> After-market electrical parts interfere with BSM system Malfunction in BSM indicator light related parts <ul style="list-style-type: none"> Open circuit in wiring harness between BSM indicator light and BSM control module Open circuit in wiring harness or poor ground between BSM control module and ground BSM indicator light malfunction

Diagnostic Procedure

Step	Inspection	Result	Action
1	INSPECT IF MALFUNCTION IS IN INPUT SIGNAL OR BSM CONTROL MODULE <ul style="list-style-type: none"> Monitor the following PIDs on the suspected side of the BSM control module using the M-MDS. (See PID/DATA MONITOR INSPECTION [BLIND SPOT MONITORING (BSM)].) — SWA_POS Are the monitoring values normal? 	Yes	Go to Step 3.
		No	Go to the next step.
2	INSPECT STEERING ANGLE SIGNAL <ul style="list-style-type: none"> Monitor the PID STR_ANG for the EPS control module using the M-MDS. (See ELECTRIC POWER STEERING (EPS) ON-BOARD DIAGNOSIS.) Is the monitoring value normal? 	Yes	Replace the instrument cluster. (See INSTRUMENT CLUSTER REMOVAL/INSTALLATION.)
		No	Replace the EPS control module. (See STEERING WHEEL AND COLUMN REMOVAL/INSTALLATION.)
3	INSPECT REAR BUMPER <ul style="list-style-type: none"> Inspect the rear bumper at the BSM installation area for the following: <ul style="list-style-type: none"> Installation condition Sticker adhesion Excessive soiling Repairs using putty Is the rear bumper condition normal? 	Yes	Go to the next step.
		No	Repair or replace malfunctioning parts, or replace the rear bumper. (See REAR BUMPER REMOVAL/INSTALLATION.)
4	VERIFY THE CONDITION OF THE BSM CONTROL MODULE <ul style="list-style-type: none"> Remove the rear bumper. (See REAR BUMPER REMOVAL/INSTALLATION.) Inspect the BSM control module for the following: <ul style="list-style-type: none"> Looseness Damage or deformity to the bracket Distortion at vehicle installation surface Is the BSM control module installation condition normal? 	Yes	Go to the next step.
		No	Repair or replace the malfunctioning part.

Step	Inspection	Result	Action
5	VERIFY IF CAUSE OF MALFUNCTION IS IN AFTER-MARKET ELECTRICAL PRODUCT OR ELSEWHERE <ul style="list-style-type: none"> Remove the after-market electrical product. Verify that the malfunction symptom recurs as stated by the customer. Does the malfunction symptom recur? 	Yes	Go to the next step.
		No	The after-market electrical product is causing the malfunction.
6	INSPECT BSM CONTROL MODULE (RADAR) <ul style="list-style-type: none"> Perform the BSM radar test. (See BLIND SPOT MONITORING (BSM) RADAR TEST.) Is "TEST PASSED" displayed? 	Yes	Temporary malfunction with the radar echo-back. If the same symptom recurs repeatedly, replace the BSM control module. (See BLIND SPOT MONITORING (BSM) CONTROL MODULE REMOVAL/ INSTALLATION.)
		No	Repair or replace malfunctioning part according to inspection result. (See BLIND SPOT MONITORING (BSM) RADAR TEST.)