DTC B118D:15 [BLIND SPOT MONITORING (BSM)]

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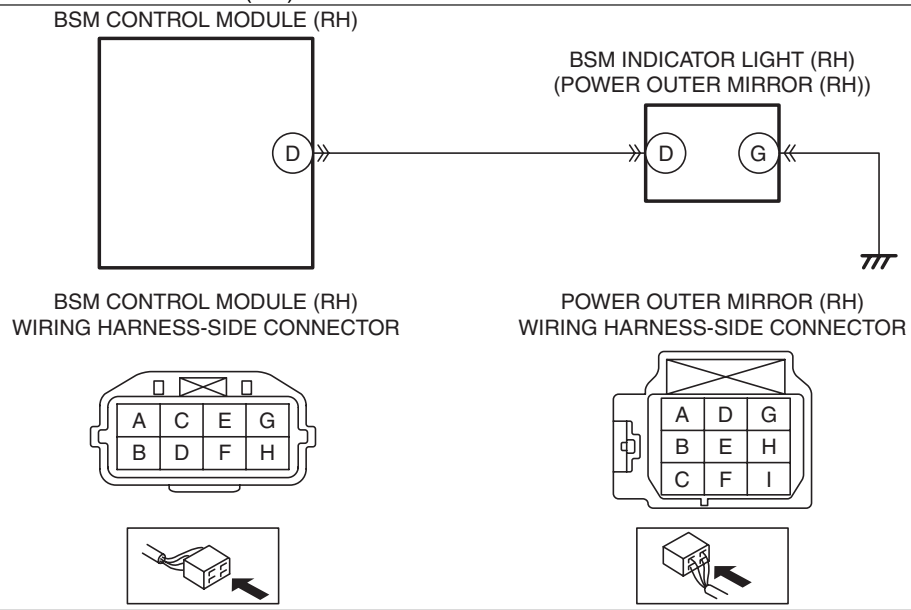
System malfunction location	**BSM indicator light (RH) circuit malfunction**
Detection condition	• While the BSM indicator light (RH) is operated, the BSM control module (RH) monitors the BSM indicator light (RH) load voltage. Decrease in the BSM indicator light (RH) load voltage is the specified value or less, and the BSM control module (RH) determined that there is a short to power supply or an open circuit in the BSM indicator light (RH) circuit.
Fail-safe	• BSM is stopped.
Possible cause	• Malfunction in power outer mirror (RH) connector or terminal • Open circuit in wiring harness between power outer mirror (RH) terminal G and body ground • Malfunction in BSM control module (RH) connector or terminal • Short to power supply in wiring harness between BSM control module (RH) terminal D and power outer mirror (RH) terminal D • Power outer mirror (RH) malfunction • BSM indicator light (RH) malfunction • Open circuit in wiring harness between BSM control module (RH) terminal D and power outer mirror (RH) terminal D • BSM control module (RH) malfunction



Diagnostic Procedure

Step	Inspection		Action
1	**INSPECT POWER OUTER MIRROR (RH) CONNECTOR CONDITION** • Switch the ignition to off. • Disconnect the negative battery cable. (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-G 2.0, SKYACTIV-G 2.5].) (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-D 2.2].) • Disconnect the power outer mirror (RH) connector. • Inspect the connector engagement and connection condition and inspect the terminals for damage, deformation, corrosion, or disconnection. • Is the connector normal?	Yes	Go to the next step.
		No	Repair or replace the connector, then go to Step 8.

Step	Inspection		Action
2	**INSPECT BSM INDICATOR LIGHT (RH) GROUND CIRCUIT FOR OPEN CIRCUIT** • Verify that the power outer mirror (RH) connector is disconnected. • Inspect for continuity between power outer mirror (RH) terminal G (vehicle wiring harness side) and body ground. • Is there continuity?	Yes	Go to the next step.
		No	Repair or replace the wiring harness which has an open circuit, then go to Step 8.
3	**INSPECT BSM CONTROL MODULE (RH) CONNECTOR CONDITION** • Disconnect the BSM control module (RH) connector. • Inspect the connector engagement and connection condition and inspect the terminals for damage, deformation, corrosion, or disconnection. • Is the connector normal?	Yes	Go to the next step.
		No	Repair or replace the connector, then go to Step 8.
4	**INSPECT BSM INDICATOR LIGHT (RH) SIGNAL CIRCUIT FOR SHORT TO POWER SUPPLY** • Verify that the BSM control module (RH) and power outer mirror (RH) connectors are disconnected. • Connect the negative battery cable. (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-G 2.0, SKYACTIV-G 2.5].) (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-D 2.2].) • Switch the ignition ON (engine off or on). • Measure the voltage at power outer mirror (RH) terminal D (vehicle wiring harness side). • Is the voltage **0 V**?	Yes	Go to the next step.
		No	Repair or replace the wiring harness which is shorted to power supply, then go to Step 8.
5	**INSPECT POWER OUTER MIRROR (RH)** • Inspect the power outer mirror (RH). (See POWER OUTER MIRROR INSPECTION.) • Is the power outer mirror (RH) normal?	Yes	Go to the next step.
		No	Replace the power outer mirror (RH), then go to Step 8. (See POWER OUTER MIRROR REMOVAL/ INSTALLATION.)
6	**INSPECT BSM INDICATOR LIGHT (RH)** • Inspect the BSM indicator light (RH). (See OUTER MIRROR GLASS INSPECTION.) • Is the BSM indicator light (RH) normal?	Yes	Go to the next step.
		No	Replace the outer mirror glass (RH), then go to Step 8. (See OUTER MIRROR GLASS REMOVAL.) (See OUTER MIRROR GLASS INSTALLATION.)
7	**INSPECT BSM INDICATOR LIGHT (RH) SIGNAL CIRCUIT FOR OPEN CIRCUIT** • Verify that the BSM control module (RH) and power outer mirror (RH) connectors are disconnected. • Switch the ignition to off. • Disconnect the negative battery cable. (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-G 2.0, SKYACTIV-G 2.5].) (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-D 2.2].) • Inspect for continuity between BSM control module (RH) (vehicle wiring harness side) terminal D and power outer mirror (RH) terminal D (vehicle wiring harness side). • Is there continuity?	Yes	Go to the next step.
		No	Repair or replace the wiring harness which has an open circuit, then go to the next step.

Step	Inspection		Action
8	**VERIFY THAT REPAIRS HAVE BEEN COMPLETED** • Reconnect all the disconnected connectors. • Reconnect the disconnected negative battery cable. (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-G 2.0, SKYACTIV-G 2.5].) (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-D 2.2].) • Clear the BSM control module (RH) DTCs using the M-MDS. (See CLEARING DTC [BLIND SPOT MONITORING (BSM)].) • Perform the DTC inspection for the BSM control module (RH) using the M-MDS. (See DTC INSPECTION [BLIND SPOT MONITORING (BSM)].) • Is DTC B118D:15 displayed?	Yes	Repeat the inspection from Step 1. • If the malfunction recurs, replace the BSM control module (RH), then go to the next step. (See BLIND SPOT MONITORING (BSM) CONTROL MODULE REMOVAL/INSTALLATION.)
		No	Go to the next step.
9	**VERIFY IF OTHER DTCs DISPLAYED** • Are any other DTCs displayed?	Yes	Repair the malfunctioning part according to the applicable DTC troubleshooting. (See DTC TABLE [BLIND SPOT MONITORING (BSM)].)
		No	DTC troubleshooting completed.