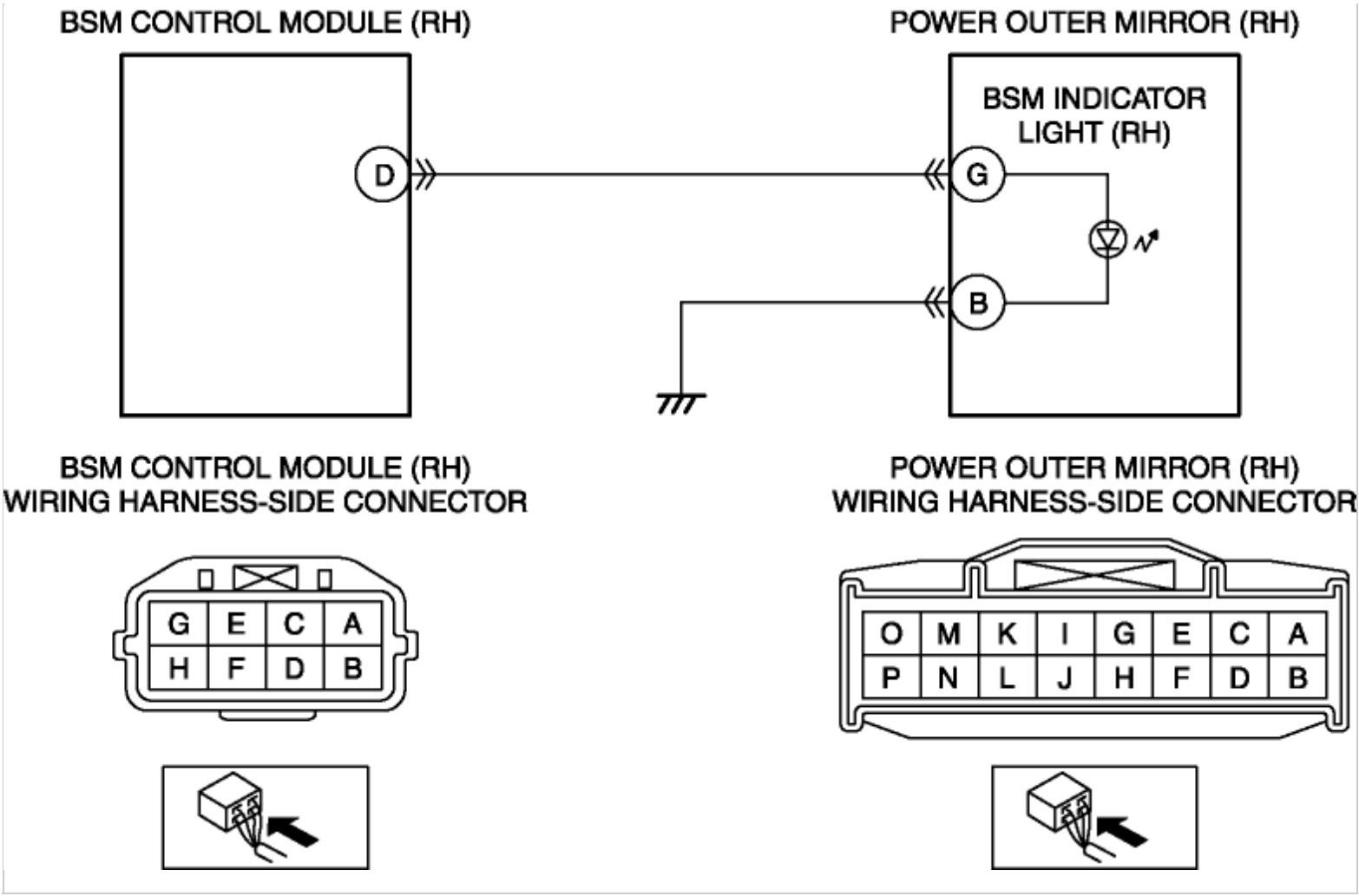
2012 - Mazda6 - Body and Accessories

DTC B118D:11 [BLIND SPOT MONITORING (BSM)]

DESCRIPTION	Short to ground in BSM indicator light (RH) circuit
DETECTION CONDITION	• The BSM control module (RH) monitors the BSM indicator light (RH) load current, while the BSM indicator light (RH) is operating. If the increase in the BSM indicator light (RH) load current is more than the specification, the BSM control module (RH) determines that the BSM indicator light (RH) circuit has a short to ground.
POSSIBLE CAUSE	• Connector or terminal malfunction • Short to ground in wiring harness between BSM control module (RH) terminal D and power outer mirror (RH) terminal G • Power outer mirror (RH) malfunction • BSM indicator light (RH) malfunction • 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 power outer mirror (RH) connector. • Inspect for poor connection (damaged/pulled-out pins, corrosion). • Is there any malfunction?	Yes	Repair or replace the connector or terminal, then go to Step 6.
		No	Go to the next step.
2	**INSPECT BSM CONTROL MODULE (RH) CONNECTOR CONDITION** • Disconnect the BSM control module (RH) connector. • Inspect for poor connection (damaged/pulled-out pins, corrosion).	Yes	Repair or replace the connector or terminal, then go to Step 6.
		No	Go to the next step.

	• Is there any malfunction?		
3	**INSPECT BSM INDICATOR LIGHT (RH) CONTROL CIRCUIT FOR SHORT TO GROUND** • Inspect for continuity between power outer mirror (RH) terminal G (wiring harness-side) and body ground. • Is there continuity?	Yes	Repair or replace the wiring harness for a possible short to ground, then go to Step 6.
		No	Go to the next step.
4	**INSPECT POWER OUTER MIRROR (RH)** • Inspect the power outer mirror (RH). (See **POWER OUTER MIRROR INSPECTION**.) • Is there any malfunction?	Yes	Replace the power outer mirror (RH), then go to Step 6. (See **POWER OUTER MIRROR REMOVAL/ INSTALLATION**.)
		No	Go to the next step.
5	**INSPECT BSM INDICATOR LIGHT (RH)** • Inspect the BSM indicator light (RH). • Is there any malfunction?	Yes	Replace the outer mirror glass (RH), then go to the next step. (See **OUTER MIRROR GLASS REMOVAL**.) (See **OUTER MIRROR GLASS INSTALLATION**.)
		No	Go to the next step.
6	**VERIFY TROUBLESHOOTING COMPLETED** • Make sure to reconnect the disconnected connectors. • Connect the M-MDS to the DLC-2. • Switch the ignition to ON. • Clear the DTC from the BSM control module memory using the M-MDS. (See **CLEARING DTC [BLIND SPOT MONITORING (BSM)]**.) • Perform the self-test with M-MDS. (See **DTC INSPECTION [BLIND SPOT MONITORING (BSM)]**.) • Is the same DTC present?	Yes	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.
7	**VERIFY THAT NO OTHER DTCs ARE RECORDED**	Yes	Go to the applicable DTC inspection. (See **DTC TABLE [BLIND SPOT**

	• Are any DTCs present?		MONITORING (BSM)].)
		No	DTC troubleshooting completed.

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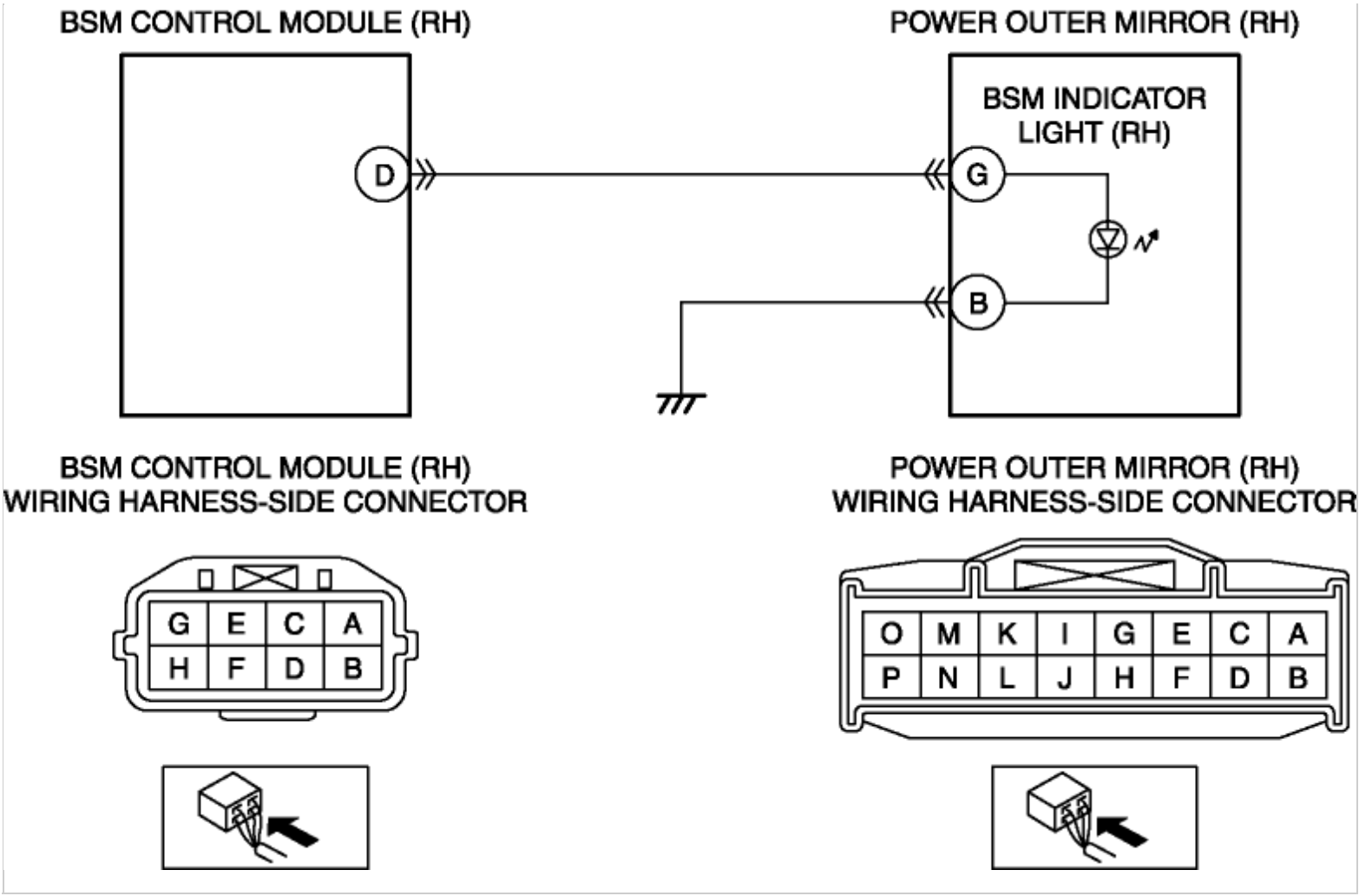
POSSIBLE CAUSE	• Connector or terminal malfunction • Short to ground in wiring harness between BSM control module (RH) terminal D and power outer mirror (RH) terminal G • Power outer mirror (RH) malfunction • BSM indicator light (RH) malfunction • BSM control module (RH) malfunction



Diagnostic procedure

STEP	INSPECTION		ACTION
1	**INSPECT POWER OUTER MIRROR (RH) CONNECTOR CONDITION** • Switch the ignition to off. • Disconnect the power outer mirror (RH) connector. • Inspect for poor connection (damaged/pulled-out pins, corrosion). • Is there any malfunction?	Yes	Repair or replace the connector or terminal, then go to Step 6.
		No	Go to the next step.
2	**INSPECT BSM CONTROL MODULE (RH) CONNECTOR CONDITION** • Disconnect the BSM control module (RH) connector. • Inspect for poor connection (damaged/pulled-out pins, corrosion).	Yes	Repair or replace the connector or terminal, then go to Step 6.
		No	Go to the next step.

	• Is there any malfunction?		
3	**INSPECT BSM INDICATOR LIGHT (RH) CONTROL CIRCUIT FOR SHORT TO GROUND** • Inspect for continuity between power outer mirror (RH) terminal G (wiring harness-side) and body ground. • Is there continuity?	Yes	Repair or replace the wiring harness for a possible short to ground, then go to Step 6.
		No	Go to the next step.
4	**INSPECT POWER OUTER MIRROR (RH)** • Inspect the power outer mirror (RH). (See **POWER OUTER MIRROR INSPECTION**.) • Is there any malfunction?	Yes	Replace the power outer mirror (RH), then go to Step 6. (See **POWER OUTER MIRROR REMOVAL/ INSTALLATION**.)
		No	Go to the next step.
5	**INSPECT BSM INDICATOR LIGHT (RH)** • Inspect the BSM indicator light (RH). • Is there any malfunction?	Yes	Replace the outer mirror glass (RH), then go to the next step. (See **OUTER MIRROR GLASS REMOVAL**.) (See **OUTER MIRROR GLASS INSTALLATION**.)
		No	Go to the next step.
6	**VERIFY TROUBLESHOOTING COMPLETED** • Make sure to reconnect the disconnected connectors. • Connect the M-MDS to the DLC-2. • Switch the ignition to ON. • Clear the DTC from the BSM control module memory using the M-MDS. (See **CLEARING DTC [BLIND SPOT MONITORING (BSM)]**.) • Perform the self-test with M-MDS. (See **DTC INSPECTION [BLIND SPOT MONITORING (BSM)]**.) • Is the same DTC present?	Yes	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.
7	**VERIFY THAT NO OTHER DTCs ARE RECORDED**	Yes	Go to the applicable DTC inspection. (See **DTC TABLE [BLIND SPOT**

	• Are any DTCs present?		MONITORING (BSM)].)
		No	DTC troubleshooting completed.

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