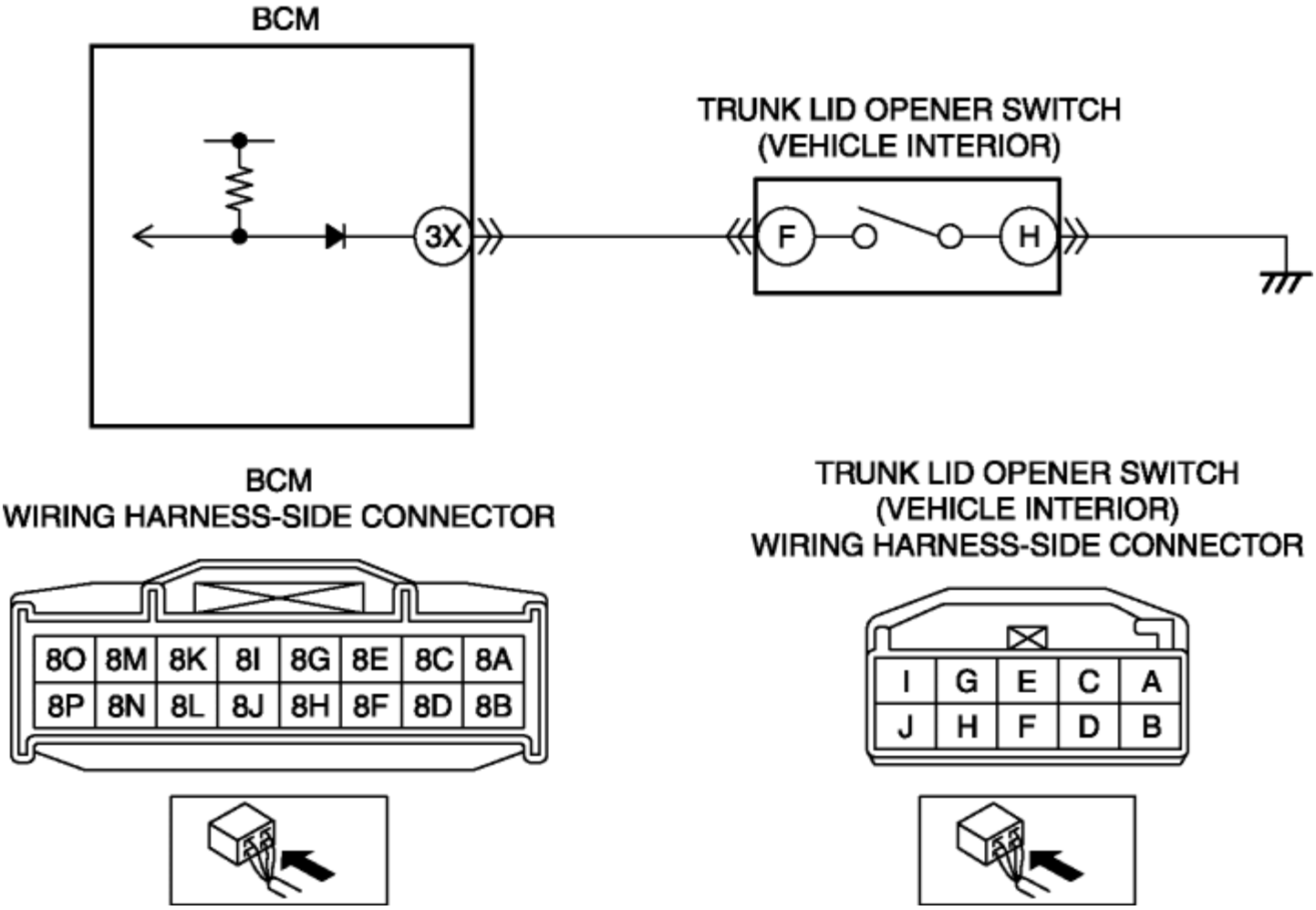
2012 - Mazda6 - Body and Accessories

DTC B113E:11 [BCM]

DESCRIPTION	Trunk lid opener switch (vehicle interior) circuit malfunction
DETECTION CONDITION	• Short to ground in trunk lid opener switch (vehicle interior) circuit with the trunk lid opener switch (vehicle interior) off.
POSSIBLE CAUSE	• Trunk lid opener switch (vehicle interior) connector or terminals malfunction • Trunk lid opener switch (vehicle interior) malfunction • BCM connector or terminals malfunction • Short to ground in wiring harness between trunk lid opener switch (vehicle interior) terminal F and BCM terminal 3X • BCM malfunction



Diagnostic Procedure

Step	Inspection		Action
1	**PERFORM DTC INSPECTION** • Clear the DTC from the BCM memory using the M-MDS. (See **CLEARING DTC [BCM]**.) • Perform the BCM DTC inspection using the M-MDS with the trunk lid opener switch (vehicle interior) off. (See **DTC INSPECTION [BCM]**.) • Is the same DTC present?	Yes	Go to the next step.
		No	Go to Step 7.
2	**INSPECT TRUNK LID OPENER SWITCH (VEHICLE INTERIOR) CONNECTOR CONDITION** • Switch the ignition to off.	Yes	Repair or replace the connector or terminals, then go to Step 6.
		No	Go to the next step.

	Disconnect the negative battery cable. • Disconnect the trunk lid opener switch (vehicle interior) connector. • Inspect for poor connection (damaged/pulled-out pins, corrosion). • Is there any malfunction?		
3	**INSPECT TRUNK LID OPENER SWITCH (VEHICLE INTERIOR)** • Inspect the trunk lid opener switch (vehicle interior). (See **TRUNK LID OPENER SWITCH INSPECTION**.) • Is there any malfunction?	Yes	Replace the trunk lid opener switch (vehicle interior), then go to Step 6. (See **TRUNK LID OPENER SWITCH REMOVAL/INSTALLATION**.)
		No	Go to the next step.
4	**INSPECT BCM CONNECTOR CONDITION** • Disconnect the BCM connector. • Inspect for poor connection (damaged/pulled-out pins, corrosion). • Is there any malfunction?	Yes	Repair or replace the connector or terminals, then go to Step 6.
		No	Go to the next step.
5	**INSPECT TRUNK LID OPENER SWITCH (VEHICLE INTERIOR) CIRCUIT FOR SHORT TO GROUND** • Trunk lid opener switch (vehicle interior) and BCM connectors are disconnected. • Inspect for continuity between trunk lid opener switch (vehicle interior) terminal F (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 the next step.
		No	Go to the next step.
6	**VERIFY TROUBLESHOOTING COMPLETED** • Make sure to reconnect all disconnected connectors. • Reconnect the negative battery cable. • Clear the DTC from the BCM memory using the M-MDS. (See **CLEARING DTC [BCM]**.) • Perform the BCM DTC inspection using the M-MDS with the trunk lid opener switch	Yes	Repeat the inspection from Step 1. If the malfunction recurs, replace the BCM, then go to the next step. (See **BODY CONTROL MODULE (BCM) REMOVAL/INSTALLATION**.)
		No	Go to the next step.

	(vehicle interior) off. (See **DTC INSPECTION [BCM]**.) • Is the same DTC present?		
7	**VERIFY THAT NO OTHER DTCs ARE PRESENT** • Are any DTCs present?	Yes	Go to the applicable DTC inspection. (See **DTC TABLE [BCM]**.)
		No	DTC troubleshooting completed.

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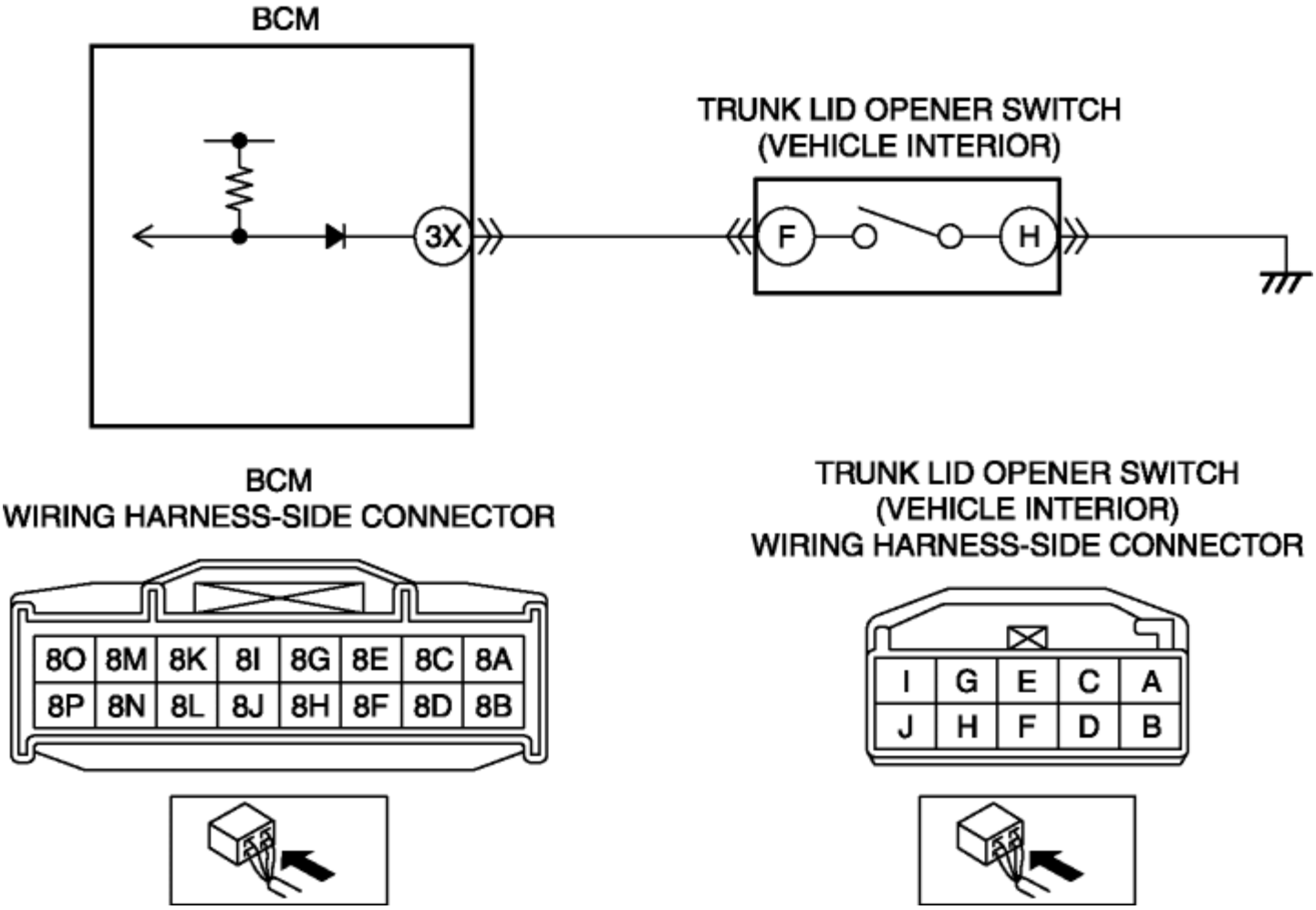
DTC B113E:11 [BCM]

DESCRIPTION	Trunk lid opener switch (vehicle interior) circuit malfunction
DETECTION CONDITION	• Short to ground in trunk lid opener switch (vehicle interior) circuit with the trunk lid opener switch (vehicle interior) off.
POSSIBLE CAUSE	• Trunk lid opener switch (vehicle interior) connector or terminals malfunction • Trunk lid opener switch (vehicle interior) malfunction • BCM connector or terminals malfunction • Short to ground in wiring harness between trunk lid opener switch (vehicle interior) terminal F and BCM terminal 3X • BCM malfunction



Diagnostic Procedure

Step	Inspection		Action
1	**PERFORM DTC INSPECTION** • Clear the DTC from the BCM memory using the M-MDS. (See **CLEARING DTC [BCM]**.) • Perform the BCM DTC inspection using the M-MDS with the trunk lid opener switch (vehicle interior) off. (See **DTC INSPECTION [BCM]**.) • Is the same DTC present?	Yes	Go to the next step.
		No	Go to Step 7.
2	**INSPECT TRUNK LID OPENER SWITCH (VEHICLE INTERIOR) CONNECTOR CONDITION** • Switch the ignition to off.	Yes	Repair or replace the connector or terminals, then go to Step 6.
		No	Go to the next step.

	Disconnect the negative battery cable. • Disconnect the trunk lid opener switch (vehicle interior) connector. • Inspect for poor connection (damaged/pulled-out pins, corrosion). • Is there any malfunction?		
3	**INSPECT TRUNK LID OPENER SWITCH (VEHICLE INTERIOR)** • Inspect the trunk lid opener switch (vehicle interior). (See **TRUNK LID OPENER SWITCH INSPECTION**.) • Is there any malfunction?	Yes	Replace the trunk lid opener switch (vehicle interior), then go to Step 6. (See **TRUNK LID OPENER SWITCH REMOVAL/INSTALLATION**.)
		No	Go to the next step.
4	**INSPECT BCM CONNECTOR CONDITION** • Disconnect the BCM connector. • Inspect for poor connection (damaged/pulled-out pins, corrosion). • Is there any malfunction?	Yes	Repair or replace the connector or terminals, then go to Step 6.
		No	Go to the next step.
5	**INSPECT TRUNK LID OPENER SWITCH (VEHICLE INTERIOR) CIRCUIT FOR SHORT TO GROUND** • Trunk lid opener switch (vehicle interior) and BCM connectors are disconnected. • Inspect for continuity between trunk lid opener switch (vehicle interior) terminal F (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 the next step.
		No	Go to the next step.
6	**VERIFY TROUBLESHOOTING COMPLETED** • Make sure to reconnect all disconnected connectors. • Reconnect the negative battery cable. • Clear the DTC from the BCM memory using the M-MDS. (See **CLEARING DTC [BCM]**.) • Perform the BCM DTC inspection using the M-MDS with the trunk lid opener switch	Yes	Repeat the inspection from Step 1. If the malfunction recurs, replace the BCM, then go to the next step. (See **BODY CONTROL MODULE (BCM) REMOVAL/INSTALLATION**.)
		No	Go to the next step.

	(vehicle interior) off. (See **DTC INSPECTION [BCM]**.) • Is the same DTC present?		
7	**VERIFY THAT NO OTHER DTCs ARE PRESENT** • Are any DTCs present?	Yes	Go to the applicable DTC inspection. (See **DTC TABLE [BCM]**.)
		No	DTC troubleshooting completed.

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