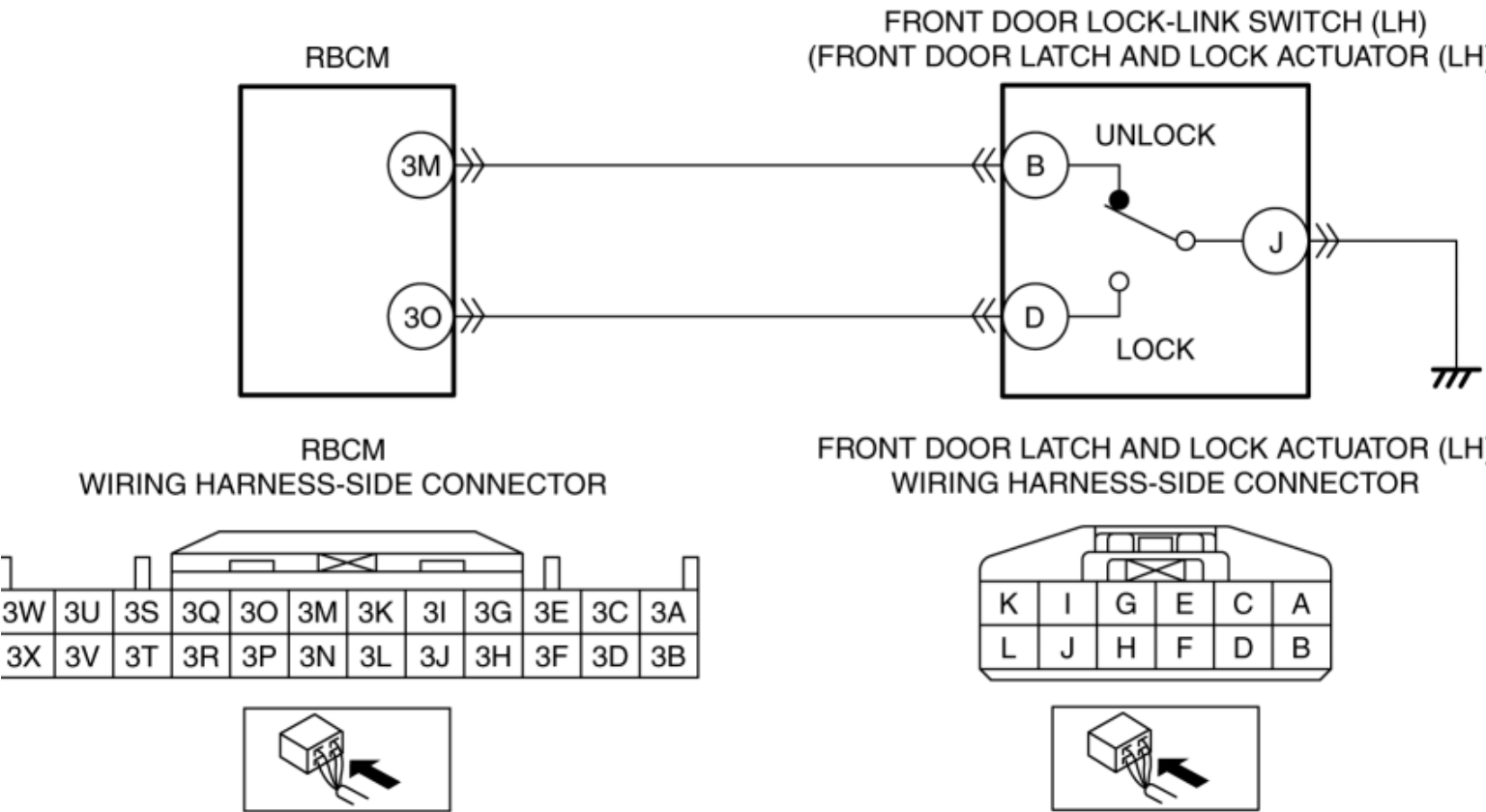


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DTC B1172:11 [REAR BODY CONTROL MODULE (RBCM)]

System malfunction location	Front door lock-link switch (LH) unlock circuit malfunction
Detection condition	<ul style="list-style-type: none"><li>With the front door lock-link switch (LH) locked, the rear body control module (RBCM) detects a short to ground in the front door lock-link switch (LH) unlock circuit.</li></ul>
Fail-safe	—
Possible cause	<ul style="list-style-type: none"><li>Front door latch and lock actuator (LH) connector or terminal malfunction</li><li>Front door lock-link switch (LH) malfunction</li><li>Rear body control module (RBCM) connector or terminal malfunction</li><li>Short to ground in wiring harness between rear body control module (RBCM) terminal 3M and front door latch and lock actuator (LH) terminal B</li><li>Rear body control module (RBCM) malfunction</li></ul>



Step	Inspection	Action
1	<b>VERIFY REAR BODY CONTROL MODULE (RBCM) DTCs AGAIN</b> <ul style="list-style-type: none"> <li>Clear rear body control module (RBCM) DTCs using the M-MDS.</li> <li>(See <b>CLEARING DTC [REAR BODY CONTROL MODULE (RBCM)]</b>.)</li> <li>Perform the DTC inspection for the rear body control module (RBCM) using the M-MDS.</li> <li>(See <b>DTC INSPECTION [REAR BODY CONTROL MODULE (RBCM)]</b>.)</li> <li>Lock the front door lock-link switch (LH).</li> <li>Is DTC B1172:11 displayed?</li> </ul>	YesGo to the next step.
		NoGo to Step 7.
2	<b>INSPECT FRONT DOOR LATCH ACTUATOR (LH) CONNECTOR</b> <ul style="list-style-type: none"> <li>Switch the ignition to off.</li> <li>Disconnect the negative battery cable.</li> <li>(See <b>NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-G 2.0, SKYACTIV-G 2.5]</b>.)</li> <li>Disconnect the front door latch and lock actuator (LH) connector.</li> <li>Inspect the connector engagement and connection condition and inspect the terminals for damage, deformation, corrosion, or disconnection.</li> <li>Is the connector normal?</li> </ul>	YesGo to the next step.
		NoRepair or replace the connector, then go to Step 6.
3	<b>INSPECT FRONT DOOR LOCK-LINK SWITCH (LH)</b> <ul style="list-style-type: none"> <li>Inspect the front door lock-link switch (LH).</li> <li>(See <b>DOOR LOCK-LINK SWITCH INSPECTION</b>.)</li> <li>Is the front door lock-link switch (LH) normal?</li> </ul>	YesGo to the next step.
		NoReplace the front door latch and lock actuator (LH), then go to Step 6. (See <b>FRONT DOOR LATCH AND LOCK ACTUATOR REMOVAL/INSTALLATION</b> .)
4	<b>INSPECT REAR BODY CONTROL MODULE (RBCM) CONNECTOR CONDITION</b> <ul style="list-style-type: none"> <li>Disconnect the rear body control module (RBCM) connector.</li> <li>Inspect the connector engagement and connection condition and inspect the terminals for damage, deformation, corrosion, or disconnection.</li> <li>Is the connector normal?</li> </ul>	YesGo to the next step.
		NoRepair or replace the connector, then go to Step 6.

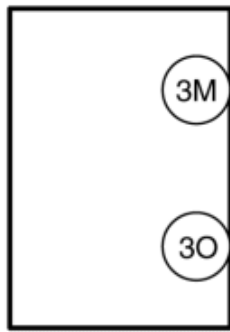
5	<b>FOR SHORT TO GROUND</b> <ul style="list-style-type: none"> <li>• Verify that the rear body control module (RBCM) connector and front door latch and lock actuator (LH) connector are disconnected.</li> <li>• Inspect for continuity between front door latch and lock actuator (LH) terminal B (vehicle wiring harness side) and body ground.</li> <li>• Is there continuity?</li> </ul>	Yes Repair or replace the wiring harness which has a short to ground, then go to the next step.
		No Go to the next step.
6	<b>VERIFY THAT REPAIRS HAVE BEEN COMPLETED</b> <ul style="list-style-type: none"> <li>• Reconnect all the disconnected connectors.</li> <li>• Reconnect the disconnected negative battery cable.</li> </ul> <p>(See <b>NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-G 2.0, SKYACTIV-G 2.5].</b>)</p> <ul style="list-style-type: none"> <li>• Clear rear body control module (RBCM) DTCs using the M-MDS.</li> </ul> <p>(See <b>CLEARING DTC [REAR BODY CONTROL MODULE (RBCM)].</b>)</p> <ul style="list-style-type: none"> <li>• Lock the front door lock-link switch (LH).</li> <li>• Perform the DTC inspection for the rear body control module (RBCM) using the M-MDS.</li> </ul> <p>(See <b>DTC INSPECTION [REAR BODY CONTROL MODULE (RBCM)].</b>)</p> <ul style="list-style-type: none"> <li>• Is DTC B1172:11 displayed?</li> </ul>	Yes Repeat the inspection from Step 1. <ul style="list-style-type: none"> <li>• If the malfunction recurs, replace the rear body control module (RBCM), then go to the next step.</li> </ul> <p>(See <b>REAR BODY CONTROL MODULE (RBCM) REMOVAL/INSTALLATION.</b>)</p>
		No Go to the next step.
7	<b>VERIFY IF OTHER DTCs DISPLAYED</b> <ul style="list-style-type: none"> <li>• Are any other DTCs displayed?</li> </ul>	Yes Repair the malfunctioning part according to the applicable DTC troubleshooting.  (See <b>DTC TABLE [REAR BODY CONTROL MODULE (RBCM)].</b> )
		No DTC troubleshooting completed.

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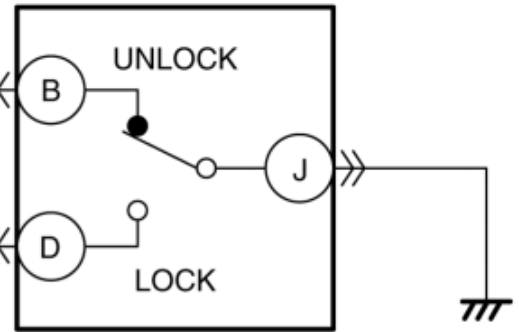
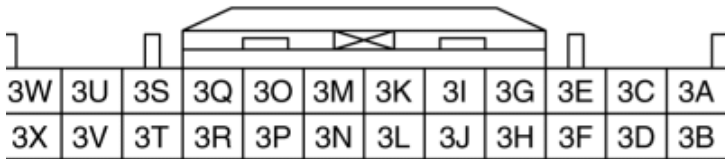
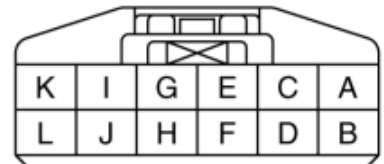
DTC B1172:13 [REAR BODY CONTROL MODULE (RBCM)]

System malfunction location	Front door lock-link switch (LH) unlock circuit malfunction
Detection condition	<ul style="list-style-type: none"><li>• Rear body control module (RBCM) detects open circuit in front door lock-link switch (LH) unlock side circuit with front door lock-link switch (LH) unlocked.</li></ul>
Fail-safe	—
Possible cause	<ul style="list-style-type: none"><li>• Front door latch and lock actuator (LH) connector or terminal malfunction</li><li>• Open circuit in wiring harness between front door latch and lock actuator (LH) terminal J and body ground</li><li>• Front door lock-link switch (LH) malfunction</li><li>• Rear body control module (RBCM) connector or terminal malfunction</li><li>• Open circuit in wiring harness between rear body control module (RBCM) terminal 3M and front door latch and lock actuator (LH) terminal B</li><li>• Rear body control module (RBCM) malfunction</li></ul>

RBCM



(FRONT DOOR LATCH AND LOCK ACTUATOR (LH

RBCM  
WIRING HARNESS-SIDE CONNECTORFRONT DOOR LATCH AND LOCK ACTUATOR (LH)  
WIRING HARNESS-SIDE CONNECTOR

## Diagnostic Procedure

Step	Inspection	Action
1	<b>VERIFY REAR BODY CONTROL MODULE (RBCM) DTCs AGAIN</b> <ul style="list-style-type: none"> <li>Clear rear body control module (RBCM) DTCs using the M-MDS.</li> <li>(See <b>CLEARING DTC [REAR BODY CONTROL MODULE (RBCM)]</b>.)</li> <li>Perform the DTC inspection for the rear body control module (RBCM) using the M-MDS.</li> <li>(See <b>DTC INSPECTION [REAR BODY CONTROL MODULE (RBCM)]</b>.)</li> <li>Is DTC B1172:13 displayed?</li> </ul>	Yes Go to the next step.  No Go to Step 8.
2	<b>INSPECT FRONT DOOR LATCH AND LOCK ACTUATOR (LH) CONNECTOR</b> <ul style="list-style-type: none"> <li>Switch the ignition to off.</li> <li>Disconnect the negative battery cable.</li> <li>(See <b>NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-G 2.0, SKYACTIV-G 2.5]</b>.)</li> <li>Disconnect the front door latch and lock actuator (LH) connector.</li> <li>Inspect the connector engagement and connection condition and inspect the terminals for damage.</li> </ul>	Yes Go to the next step.  No Repair or replace the connector, then go to Step 7.

	<ul style="list-style-type: none"> <li>Is the connector normal?</li> </ul>		
3	<b>INSPECT FOR OPEN CIRCUIT IN FRONT DOOR LOCK-LINK SWITCH (LH) GROUND CIRCUIT</b> <ul style="list-style-type: none"> <li>Verify that the front door latch and lock actuator (LH) connector is disconnected.</li> <li>Inspect the wiring harness between front door latch and lock actuator (LH) terminal J (vehicle wiring harness side) and body ground for continuity.</li> <li>Is there continuity?</li> </ul>	Yes	Go to the next step.
		No	Repair or replace the wiring harness which has an open circuit, then go to Step 7.
4	<b>INSPECT FRONT DOOR LOCK-LINK SWITCH (LH)</b> <ul style="list-style-type: none"> <li>Inspect the front door lock-link switch (LH). (See <b>DOOR LOCK-LINK SWITCH INSPECTION</b>.)</li> <li>Is the front door lock-link switch (LH) normal?</li> </ul>	Yes	Go to the next step.
		No	Replace the front door latch and lock actuator (LH), then go to Step 7.  (See <b>FRONT DOOR LATCH AND LOCK ACTUATOR REMOVAL/INSTALLATION</b> .)
5	<b>INSPECT REAR BODY CONTROL MODULE (RBCM) CONNECTOR CONDITION</b> <ul style="list-style-type: none"> <li>Disconnect the rear body control module (RBCM) connector.</li> <li>Inspect the connector engagement and connection condition and inspect the terminals for damage, deformation, corrosion, or disconnection.</li> <li>Is the connector normal?</li> </ul>	Yes	Go to the next step.
		No	Repair or replace the connector, then go to Step 7.
6	<b>INSPECT FOR OPEN CIRCUIT IN FRONT DOOR LOCK-LINK SWITCH (LH) CIRCUIT</b> <ul style="list-style-type: none"> <li>Verify that the rear body control module (RBCM) connector and front door latch and lock actuator (LH) connector are disconnected.</li> <li>Inspect the wiring harness between rear body control module (RBCM) terminal 3M (vehicle wiring harness side) and front door latch and lock actuator (LH) terminal B (vehicle wiring harness side) for continuity.</li> <li>Is there continuity?</li> </ul>	Yes	Go to the next step.
		No	Repair or replace the wiring harness which has an open circuit, then go to the next step.
7	<b>VERIFY THAT REPAIRS HAVE BEEN COMPLETED</b> <ul style="list-style-type: none"> <li>Reconnect all the disconnected connectors.</li> <li>Reconnect the disconnected negative battery cable. (See <b>NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION [SKYACTIV-G 2.0, SKYACTIV-G 2.5]</b>.)</li> <li>Clear rear body control module (RBCM) DTCs using the M-MDS.  (See <b>CLEARING DTC [REAR BODY CONTROL MODULE</b></li> </ul>	Yes	Repeat the inspection from Step 1. <ul style="list-style-type: none"> <li>If the malfunction recurs, replace the rear body control module (RBCM), then go to the next step.  (See <b>REAR BODY CONTROL MODULE (RBCM) REMOVAL/INSTALLATION</b>.)</li> </ul>
	<b>REAR BODY CONTROL MODULE REMOVAL/INSTALLATION]</b>	No	Go to the next step.

	<ul style="list-style-type: none"><li>• Perform the DTC inspection for the rear body control module (RBCM) using the M-MDS.  (See <b>DTC INSPECTION [REAR BODY CONTROL MODULE (RBCM)]</b>.)</li><li>• Is DTC B1172:13 displayed?</li></ul>		
8	<b>VERIFY IF OTHER DTCs DISPLAYED</b> <ul style="list-style-type: none"><li>• Are any other DTCs displayed?</li></ul>	Yes	Repair the malfunctioning part according to the applicable DTC troubleshooting.  (See <b>DTC TABLE [REAR BODY CONTROL MODULE (RBCM)]</b> .)
		No	DTC troubleshooting completed.