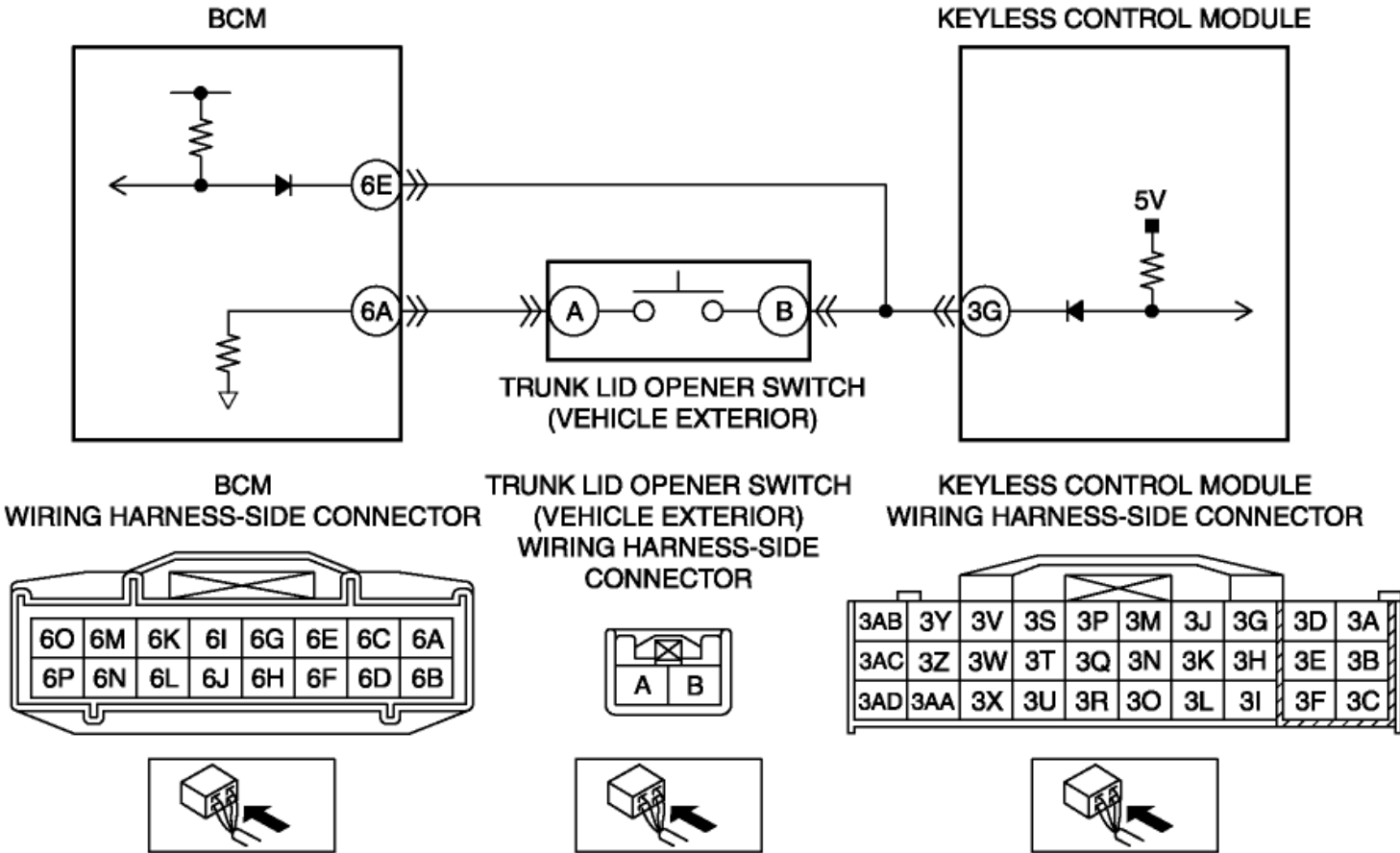


2012 - Mazda6 - Body and Accessories

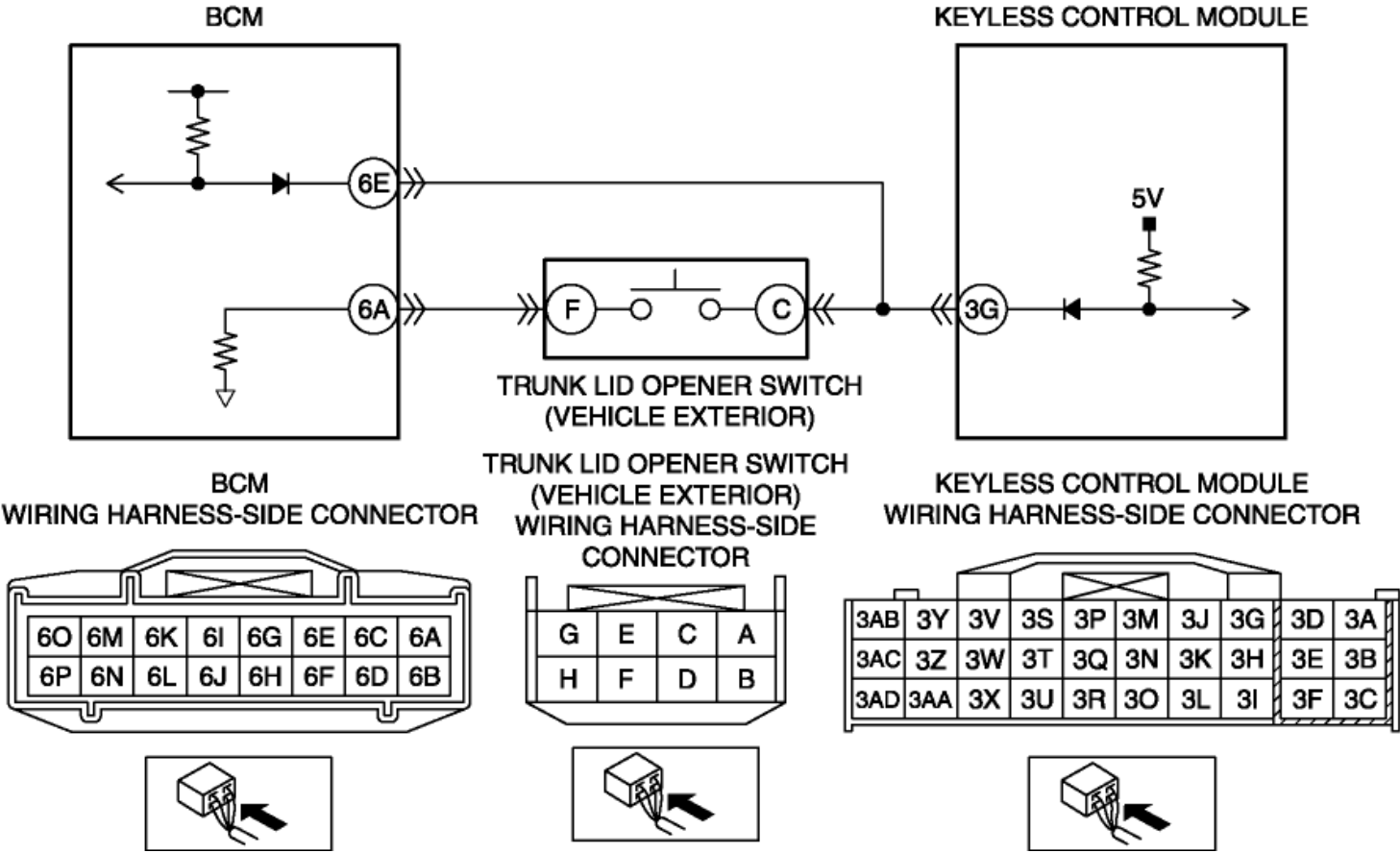
DTC B10D0:11 [BCM]

|                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| DESCRIPTION              | Trunk lid opener switch (vehicle exterior) circuit malfunction                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| DETECTI ON<br>CONDI TION | <ul style="list-style-type: none"><li>• Short to ground detected in trunk lid opener switch (vehicle exterior) circuit with the ignition switch ON.</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| POSSI BLE<br>CAUSE       | <ul style="list-style-type: none"><li>• Trunk lid opener switch (vehicle exterior) connector or terminals malfunction</li><li>• Trunk lid opener switch (vehicle exterior) malfunction</li><li>• BCM connector or terminals malfunction</li><li>• Keyless control module connector or terminals malfunction</li><li>• Short to ground in wiring harness between trunk lid opener switch (vehicle exterior) terminal B (vehicles with rear mount camera), F (vehicles without rear mount camera) and BCM terminal 6E</li><li>• Short to ground in wiring harness between keyless control module terminal 3G and BCM terminal 6E</li><li>• Keyless control module malfunction</li><li>• BCM malfunction</li></ul> |
|                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

VEHICLES WITHOUT REAR MOUNT CAMERA



VEHICLES WITH REAR MOUNT CAMERA



## Diagnostic Procedure

| Step | Inspection                                                                                                                                                                                                                                                                                                                                                                                              | Action                                                                                           |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|
| 1    | <b>PERFORM DTC INSPECTION</b> <ul style="list-style-type: none"> <li>Clear the DTC from the BCM memory using the M-MDS.</li> <li>(See <a href="#">CLEARING DTC [BCM]</a>.)</li> <li>Perform the BCM DTC inspection using the M-MDS with the ignition switch ON.</li> <li>(See <a href="#">DTC INSPECTION [BCM]</a>.)</li> <li>Is the same DTC present?</li> </ul>                                       | Yes Go to the next step.                                                                         |
|      |                                                                                                                                                                                                                                                                                                                                                                                                         | No Go to Step 9.                                                                                 |
| 2    | <b>INSPECT TRUNK LID OPENER SWITCH (VEHICLE EXTERIOR) CONNECTOR CONDITION</b> <ul style="list-style-type: none"> <li>Switch the ignition to off.</li> <li>Disconnect the negative battery cable.</li> <li>Disconnect the trunk lid opener switch (vehicle exterior) connector.</li> <li>Inspect for poor connection (damaged/pulled-out pins, corrosion).</li> <li>Is there any malfunction?</li> </ul> | Yes Repair or replace the connector or terminal, then go to Step 8.                              |
|      |                                                                                                                                                                                                                                                                                                                                                                                                         | No Go to the next step.                                                                          |
| 3    | <b>INSPECT TRUNK LID OPENER SWITCH (VEHICLE EXTERIOR)</b> <ul style="list-style-type: none"> <li>Inspect the trunk lid opener switch (vehicle exterior).</li> <li>(See <a href="#">TRUNK LID OPENER SWITCH INSPECTION</a>.)</li> <li>Is there any malfunction?</li> </ul>                                                                                                                               | Yes Replace the trunk lid opener switch (vehicle exterior), then go to Step 8.                   |
|      |                                                                                                                                                                                                                                                                                                                                                                                                         | (See <a href="#">TRUNK LID OPENER SWITCH REMOVAL/ INSTALLATION</a> .)<br>No Go to the next step. |
| 4    | <b>INSPECT BCM CONNECTOR CONDITION</b> <ul style="list-style-type: none"> <li>Disconnect the BCM connector.</li> <li>Inspect for poor connection (damaged/pulled-out pins, corrosion).</li> <li>Is there any malfunction?</li> </ul>                                                                                                                                                                    | Yes Repair or replace the connector or terminal, then go to Step 8.                              |
|      |                                                                                                                                                                                                                                                                                                                                                                                                         | No Go to the next step.                                                                          |
| 5    | <b>INSPECT KEYLESS CONTROL MODULE CONNECTOR CONDITION</b> <ul style="list-style-type: none"> <li>Disconnect the keyless control module connector.</li> <li>Inspect for poor connection (damaged/pulled-out pins, corrosion).</li> <li>Is there any malfunction?</li> </ul>                                                                                                                              | Yes Repair or replace the connector or terminal, then go to Step 8.                              |
|      |                                                                                                                                                                                                                                                                                                                                                                                                         | No Go to the next step.                                                                          |
| 6    | <b>INSPECT TRUNK LID OPENER SWITCH (VEHICLE EXTERIOR) CIRCUIT FOR SHORT TO GROUND</b> <ul style="list-style-type: none"> <li>Trunk lid opener switch (vehicle exterior), keyless control module and BCM connectors are</li> </ul>                                                                                                                                                                       | Yes Repair or replace the wiring harness for a possible short to ground, then go to Step 8.      |
|      |                                                                                                                                                                                                                                                                                                                                                                                                         | No Go to the next step.                                                                          |

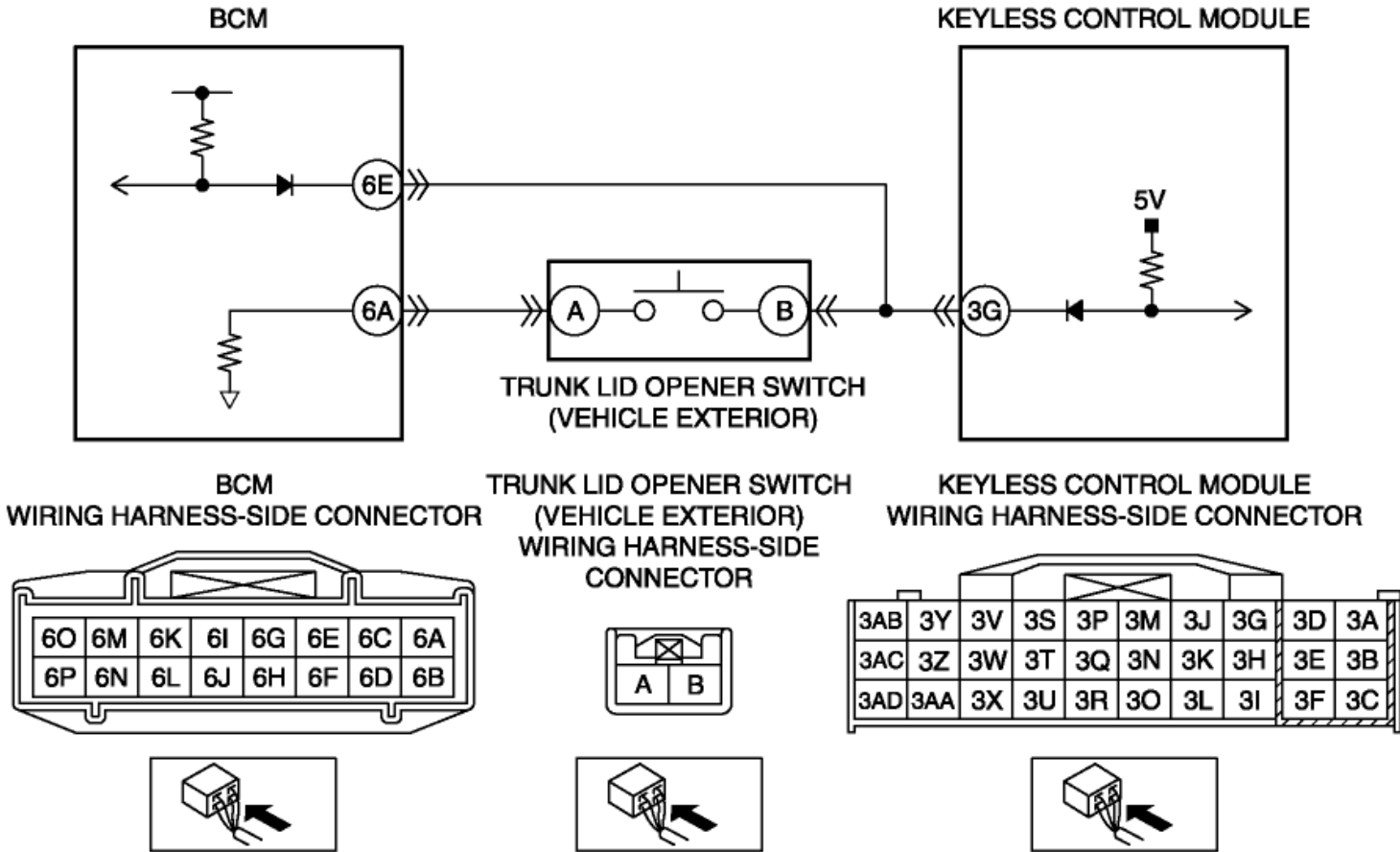
|   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |     |                                                                                                                                                                                                        |
|---|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|   | <p>disconnected.</p> <p><b>Vehicles with rear mount camera</b></p> <ul style="list-style-type: none"> <li>Inspect for continuity between trunk lid opener switch (vehicle exterior) terminal F (wiring harness-side) and body ground.</li> </ul> <p><b>Vehicles without rear mount camera</b></p> <ul style="list-style-type: none"> <li>Inspect for continuity between trunk lid opener switch (vehicle exterior) terminal B (wiring harness-side) and body ground.</li> <li>Is there continuity?</li> </ul>                                                                  |     |                                                                                                                                                                                                        |
| 7 | <p><b>INSPECT KEYLESS CONTROL MODULE</b></p> <ul style="list-style-type: none"> <li>Trunk lid opener switch (vehicle exterior), keyless control module and BCM connectors are disconnected.</li> <li>Reconnect all disconnected connectors.</li> <li>Reconnect the negative battery cable.</li> <li>Measure the voltage between keyless control module terminal 3G (wiring harness-side) and body ground.</li> <li>Is the voltage normal?</li> </ul> <p>(See <a href="#">KEYLESS CONTROL MODULE INSPECTION [ADVANCED KEYLESS ENTRY AND PUSH BUTTON START SYSTEM]</a> .)</p>    | Yes | Go to the next step.                                                                                                                                                                                   |
|   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | No  | <p>Replace the keyless control module, then go to the next step.</p> <p>(See <a href="#">KEYLESS CONTROL MODULE REMOVAL/ INSTALLATION [ADVANCED KEYLESS ENTRY AND PUSH BUTTON START SYSTEM]</a> .)</p> |
| 8 | <p><b>VERIFY TROUBLESHOOTING COMPLETED</b></p> <ul style="list-style-type: none"> <li>Make sure to reconnect all disconnected connectors.</li> <li>Reconnect the negative battery cable.</li> <li>Clear the DTC from the BCM memory using the M-MDS.</li> </ul> <p>(See <a href="#">CLEARING DTC [BCM]</a> .)</p> <ul style="list-style-type: none"> <li>Perform the BCM DTC inspection using the M-MDS with the ignition switch ON.</li> </ul> <p>(See <a href="#">DTC INSPECTION [BCM]</a> .)</p> <ul style="list-style-type: none"> <li>Is the same DTC present?</li> </ul> | Yes | <p>Repeat the inspection from Step 1.</p> <p>If the malfunction recurs, replace the BCM, then go to the next step.</p> <p>(See <a href="#">BODY CONTROL MODULE (BCM) REMOVAL/ INSTALLATION.</a>)</p>   |
|   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | No  | Go to the next step.                                                                                                                                                                                   |
| 9 | <p><b>VERIFY THAT NO OTHER DTCs ARE PRESENT</b></p> <ul style="list-style-type: none"> <li>Are any DTCs present?</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Yes | <p>Go to the applicable DTC inspection.</p> <p>(See <a href="#">DTC TABLE [BCM]</a> .)</p>                                                                                                             |
|   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | No  | DTC troubleshooting completed.                                                                                                                                                                         |

2012 - Mazda6 - Body and Accessories

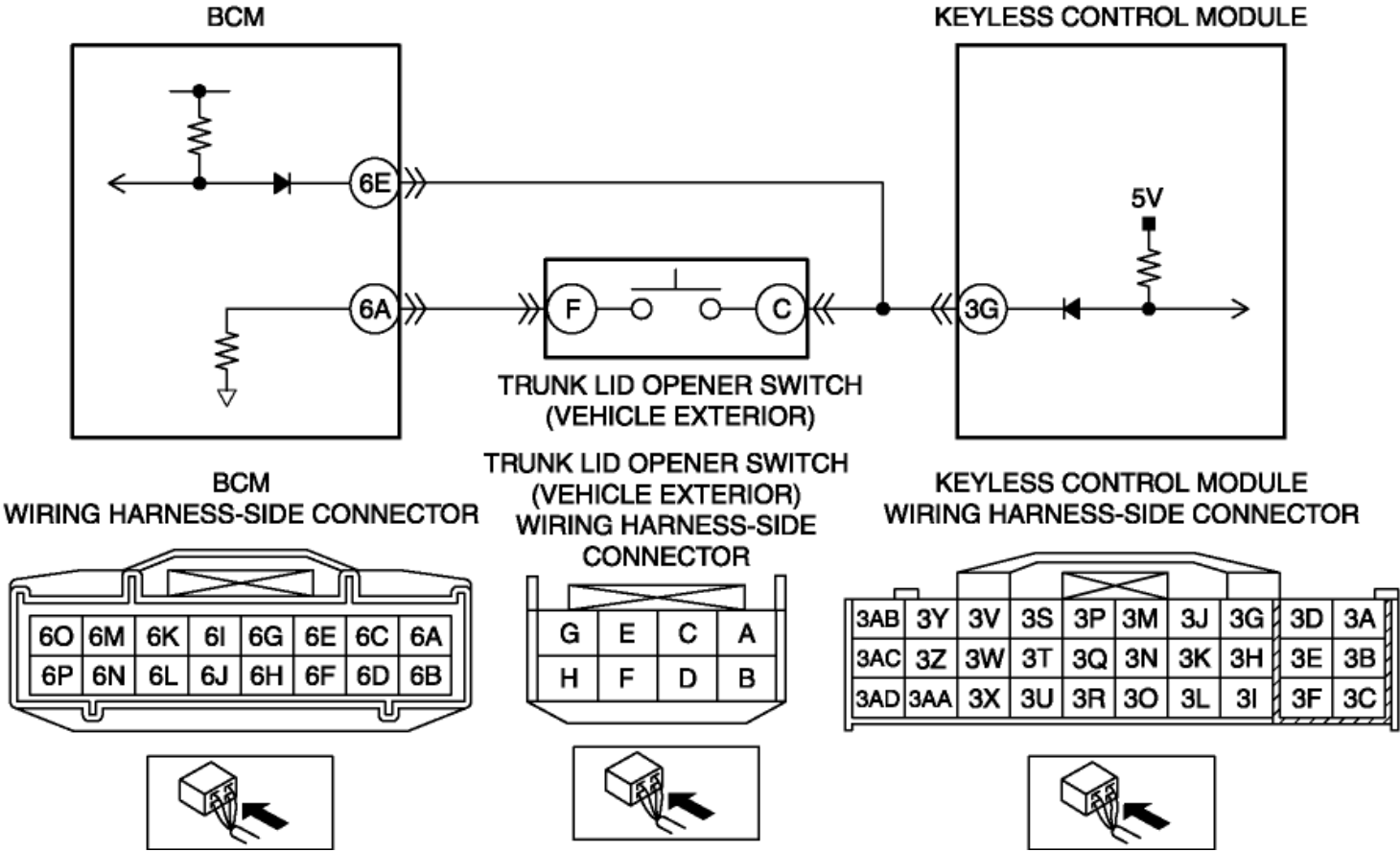
DTC B10D0:11 [BCM]

|                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |  |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|
| DESCRIPTION            | Trunk lid opener switch (vehicle exterior) circuit malfunction                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |  |
| DETECTION<br>CONDITION | <ul style="list-style-type: none"><li>• Short to ground detected in trunk lid opener switch (vehicle exterior) circuit with the ignition switch ON.</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |  |
| POSSIBLE<br>CAUSE      | <ul style="list-style-type: none"><li>• Trunk lid opener switch (vehicle exterior) connector or terminals malfunction</li><li>• Trunk lid opener switch (vehicle exterior) malfunction</li><li>• BCM connector or terminals malfunction</li><li>• Keyless control module connector or terminals malfunction</li><li>• Short to ground in wiring harness between trunk lid opener switch (vehicle exterior) terminal B (vehicles with rear mount camera), F (vehicles without rear mount camera) and BCM terminal 6E</li><li>• Short to ground in wiring harness between keyless control module terminal 3G and BCM terminal 6E</li><li>• Keyless control module malfunction</li><li>• BCM malfunction</li></ul> |  |  |
|                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |  |

VEHICLES WITHOUT REAR MOUNT CAMERA



VEHICLES WITH REAR MOUNT CAMERA



## Diagnostic Procedure

| Step | Inspection                                                                                                                                                                                                                                                                                                                                                                                              | Action                                                                                           |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|
| 1    | <b>PERFORM DTC INSPECTION</b> <ul style="list-style-type: none"> <li>Clear the DTC from the BCM memory using the M-MDS.</li> <li>(See <a href="#">CLEARING DTC [BCM]</a>.)</li> <li>Perform the BCM DTC inspection using the M-MDS with the ignition switch ON.</li> <li>(See <a href="#">DTC INSPECTION [BCM]</a>.)</li> <li>Is the same DTC present?</li> </ul>                                       | Yes Go to the next step.                                                                         |
|      |                                                                                                                                                                                                                                                                                                                                                                                                         | No Go to Step 9.                                                                                 |
| 2    | <b>INSPECT TRUNK LID OPENER SWITCH (VEHICLE EXTERIOR) CONNECTOR CONDITION</b> <ul style="list-style-type: none"> <li>Switch the ignition to off.</li> <li>Disconnect the negative battery cable.</li> <li>Disconnect the trunk lid opener switch (vehicle exterior) connector.</li> <li>Inspect for poor connection (damaged/pulled-out pins, corrosion).</li> <li>Is there any malfunction?</li> </ul> | Yes Repair or replace the connector or terminal, then go to Step 8.                              |
|      |                                                                                                                                                                                                                                                                                                                                                                                                         | No Go to the next step.                                                                          |
| 3    | <b>INSPECT TRUNK LID OPENER SWITCH (VEHICLE EXTERIOR)</b> <ul style="list-style-type: none"> <li>Inspect the trunk lid opener switch (vehicle exterior).</li> <li>(See <a href="#">TRUNK LID OPENER SWITCH INSPECTION</a>.)</li> <li>Is there any malfunction?</li> </ul>                                                                                                                               | Yes Replace the trunk lid opener switch (vehicle exterior), then go to Step 8.                   |
|      |                                                                                                                                                                                                                                                                                                                                                                                                         | (See <a href="#">TRUNK LID OPENER SWITCH REMOVAL/ INSTALLATION</a> .)<br>No Go to the next step. |
| 4    | <b>INSPECT BCM CONNECTOR CONDITION</b> <ul style="list-style-type: none"> <li>Disconnect the BCM connector.</li> <li>Inspect for poor connection (damaged/pulled-out pins, corrosion).</li> <li>Is there any malfunction?</li> </ul>                                                                                                                                                                    | Yes Repair or replace the connector or terminal, then go to Step 8.                              |
|      |                                                                                                                                                                                                                                                                                                                                                                                                         | No Go to the next step.                                                                          |
| 5    | <b>INSPECT KEYLESS CONTROL MODULE CONNECTOR CONDITION</b> <ul style="list-style-type: none"> <li>Disconnect the keyless control module connector.</li> <li>Inspect for poor connection (damaged/pulled-out pins, corrosion).</li> <li>Is there any malfunction?</li> </ul>                                                                                                                              | Yes Repair or replace the connector or terminal, then go to Step 8.                              |
|      |                                                                                                                                                                                                                                                                                                                                                                                                         | No Go to the next step.                                                                          |
| 6    | <b>INSPECT TRUNK LID OPENER SWITCH (VEHICLE EXTERIOR) CIRCUIT FOR SHORT TO GROUND</b> <ul style="list-style-type: none"> <li>Trunk lid opener switch (vehicle exterior), keyless control module and BCM connectors are</li> </ul>                                                                                                                                                                       | Yes Repair or replace the wiring harness for a possible short to ground, then go to Step 8.      |
|      |                                                                                                                                                                                                                                                                                                                                                                                                         | No Go to the next step.                                                                          |

|   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |     |                                                                                                                                                                                                        |
|---|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|   | <p>disconnected.</p> <p><b>Vehicles with rear mount camera</b></p> <ul style="list-style-type: none"> <li>Inspect for continuity between trunk lid opener switch (vehicle exterior) terminal F (wiring harness-side) and body ground.</li> </ul> <p><b>Vehicles without rear mount camera</b></p> <ul style="list-style-type: none"> <li>Inspect for continuity between trunk lid opener switch (vehicle exterior) terminal B (wiring harness-side) and body ground.</li> <li>Is there continuity?</li> </ul>                                                                  |     |                                                                                                                                                                                                        |
| 7 | <p><b>INSPECT KEYLESS CONTROL MODULE</b></p> <ul style="list-style-type: none"> <li>Trunk lid opener switch (vehicle exterior), keyless control module and BCM connectors are disconnected.</li> <li>Reconnect all disconnected connectors.</li> <li>Reconnect the negative battery cable.</li> <li>Measure the voltage between keyless control module terminal 3G (wiring harness-side) and body ground.</li> <li>Is the voltage normal?</li> </ul> <p>(See <a href="#">KEYLESS CONTROL MODULE INSPECTION [ADVANCED KEYLESS ENTRY AND PUSH BUTTON START SYSTEM]</a> .)</p>    | Yes | Go to the next step.                                                                                                                                                                                   |
|   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | No  | <p>Replace the keyless control module, then go to the next step.</p> <p>(See <a href="#">KEYLESS CONTROL MODULE REMOVAL/ INSTALLATION [ADVANCED KEYLESS ENTRY AND PUSH BUTTON START SYSTEM]</a> .)</p> |
| 8 | <p><b>VERIFY TROUBLESHOOTING COMPLETED</b></p> <ul style="list-style-type: none"> <li>Make sure to reconnect all disconnected connectors.</li> <li>Reconnect the negative battery cable.</li> <li>Clear the DTC from the BCM memory using the M-MDS.</li> </ul> <p>(See <a href="#">CLEARING DTC [BCM]</a> .)</p> <ul style="list-style-type: none"> <li>Perform the BCM DTC inspection using the M-MDS with the ignition switch ON.</li> </ul> <p>(See <a href="#">DTC INSPECTION [BCM]</a> .)</p> <ul style="list-style-type: none"> <li>Is the same DTC present?</li> </ul> | Yes | <p>Repeat the inspection from Step 1.</p> <p>If the malfunction recurs, replace the BCM, then go to the next step.</p> <p>(See <a href="#">BODY CONTROL MODULE (BCM) REMOVAL/ INSTALLATION.</a>)</p>   |
|   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | No  | Go to the next step.                                                                                                                                                                                   |
| 9 | <p><b>VERIFY THAT NO OTHER DTCs ARE PRESENT</b></p> <ul style="list-style-type: none"> <li>Are any DTCs present?</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Yes | <p>Go to the applicable DTC inspection.</p> <p>(See <a href="#">DTC TABLE [BCM]</a> .)</p>                                                                                                             |
|   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | No  | DTC troubleshooting completed.                                                                                                                                                                         |