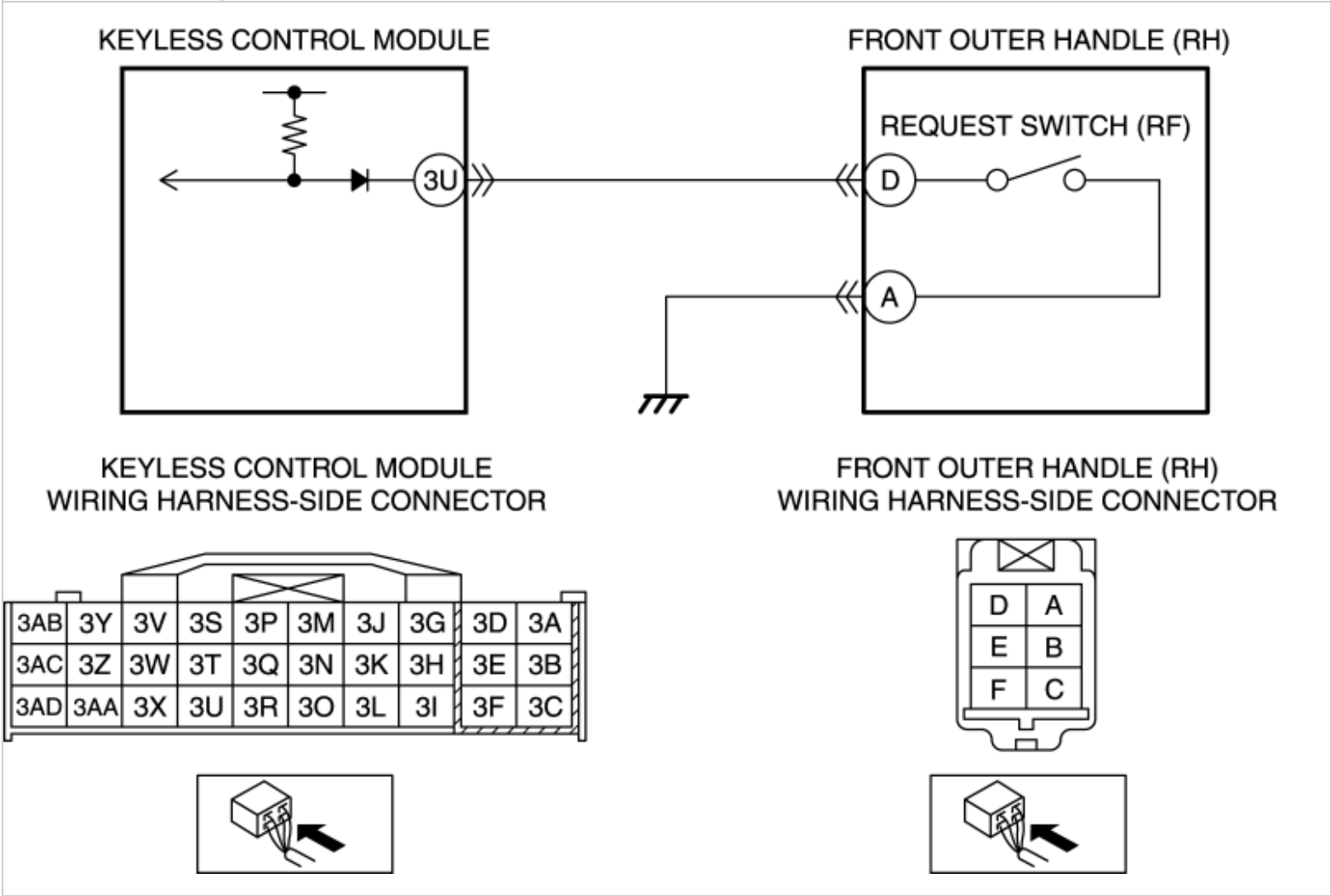


2012 - Mazda6 - Body and Accessories

DTC B10D3:23 [ADVANCED KEYLESS ENTRY AND PUSH BUTTON START SYSTEM]

|                     |                                                                                                                                                                                                                                                                                                          |
|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| DETECTION CONDITION | The request switch (RF) ON signal is detected for 2 min or more while a vehicle speed signal of 5 km/h {3 mph} or more is input                                                                                                                                                                          |
| POSSIBLE CAUSE      | <ul style="list-style-type: none"><li>• Connector or terminal malfunction</li><li>• Short to ground in wiring harness between front outer handle (RH) terminal D and keyless control module terminal 3U</li><li>• Request switch (RF) malfunction</li><li>• Keyless control module malfunction</li></ul> |



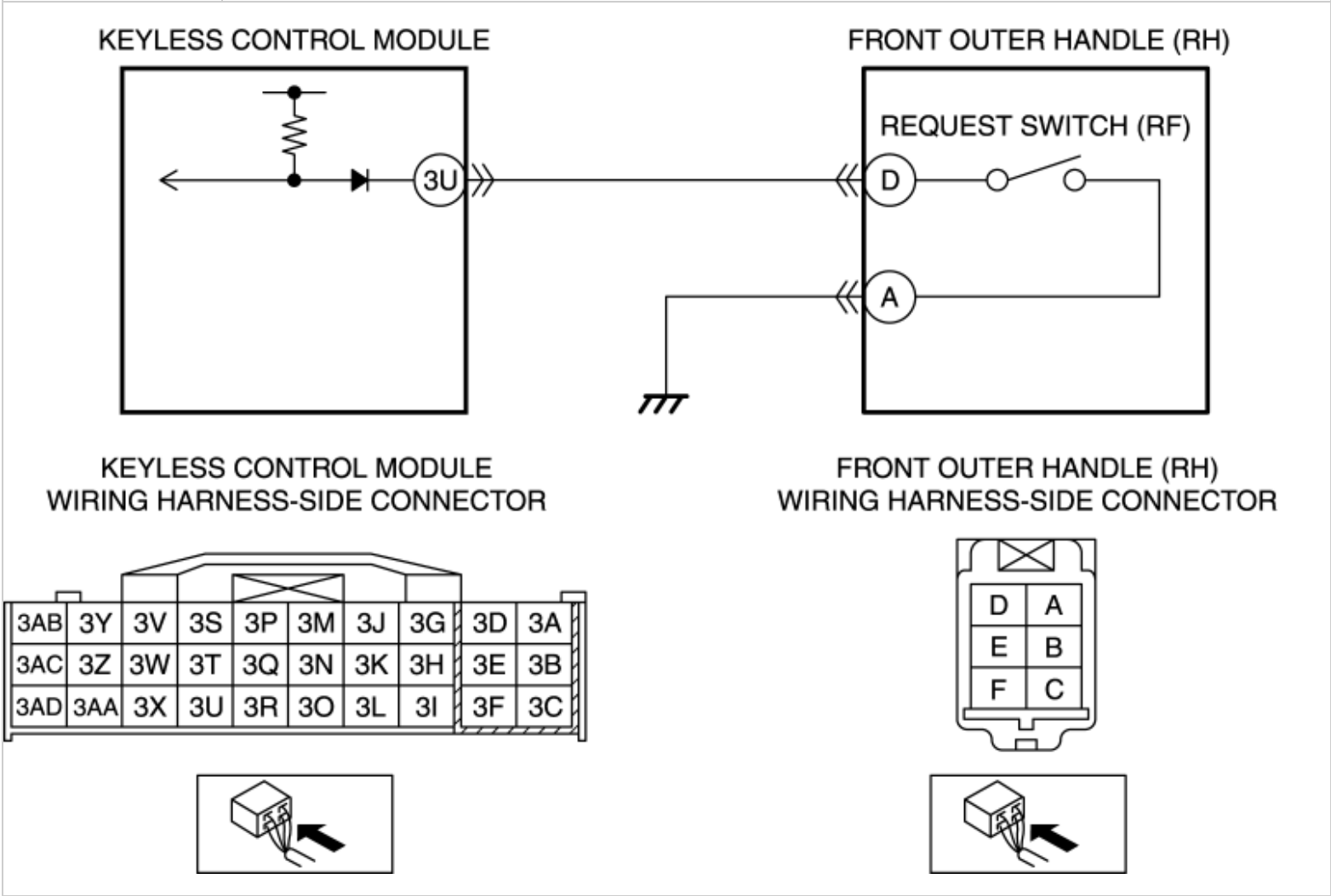
| Step | Inspection                                                                                                                                                                                                                                                                                                                                                                  | Action                                                                                                                                                                                   |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1    | <b>INSPECT FRONT OUTER HANDLE (RH) 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 front outer handle (RH) connector.</li> <li>Inspect the connector and terminals (corrosion, damage, pin disconnection).</li> <li>Is there any malfunction?</li> </ul> | Yes Repair or replace the connector or terminals, then go to Step 5.                                                                                                                     |
|      |                                                                                                                                                                                                                                                                                                                                                                             | No Go to the next step.                                                                                                                                                                  |
| 2    | <b>INSPECT KEYLESS CONTROL MODULE CONNECTOR CONDITION</b> <ul style="list-style-type: none"> <li>Disconnect the keyless control module connector.</li> <li>Inspect the connector and terminals (corrosion, damage, pin disconnection).</li> <li>Is there any malfunction?</li> </ul>                                                                                        | Yes Repair or replace the connector or terminals, then go to Step 5.                                                                                                                     |
|      |                                                                                                                                                                                                                                                                                                                                                                             | No Go to the next step.                                                                                                                                                                  |
| 3    | <b>INSPECT REQUEST SWITCH (RF) CIRCUIT FOR SHORT TO GROUND</b> <ul style="list-style-type: none"> <li>Inspect for continuity between front outer handle (RH) terminal D (wiring harness-side) and body ground.</li> <li>Is there continuity?</li> </ul>                                                                                                                     | Yes Repair or replace the wiring harness for a possible short to ground, then go to Step 5.                                                                                              |
|      |                                                                                                                                                                                                                                                                                                                                                                             | No Go to the next step.                                                                                                                                                                  |
| 4    | <b>INSPECT REQUEST SWITCH (RF)</b> <ul style="list-style-type: none"> <li>Inspect the request switch (RF).</li> <li>(See <a href="#">REQUEST SWITCH INSPECTION [ADVANCED KEYLESS ENTRY AND PUSH BUTTON START SYSTEM]</a>.)</li> <li>Is there any malfunction?</li> </ul>                                                                                                    | Yes Replace the request switch (RF), then go to the next step.<br><br>(See <a href="#">REQUEST SWITCH REMOVAL/ INSTALLATION [ADVANCED KEYLESS ENTRY AND PUSH BUTTON START SYSTEM]</a> .) |
|      |                                                                                                                                                                                                                                                                                                                                                                             | No Go to the next step.                                                                                                                                                                  |
| 5    | <b>VERIFY TROUBLESHOOTING COMPLETED</b>                                                                                                                                                                                                                                                                                                                                     | Yes Repeat the inspection from Step 1.<br><br>If the malfunction recurs, replace the keyless                                                                                             |

|   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                   |
|---|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|   | <ul style="list-style-type: none"><li>• Make sure to reconnect the disconnected connectors.</li><li>• Reconnect the negative battery cable.</li><li>• Clear the DTC from keyless control module memory using the M-MDS.<br/><br/>(See <b>CLEARING DTC [ADVANCED KEYLESS ENTRY AND PUSH BUTTON START SYSTEM]</b> .)</li><li>• Perform the advanced keyless entry and push button start system DTC inspection using the M-MDS.<br/><br/>(See <b>DTC INSPECTION [ADVANCED KEYLESS ENTRY AND PUSH BUTTON START SYSTEM]</b> .)</li><li>• Is the same DTC present?</li></ul> | <div>control module, then go to the next step.<br/><br/>(See <b>KEYLESS CONTROL MODULE REMOVAL/ INSTALLATION [ADVANCED KEYLESS ENTRY AND PUSH BUTTON START SYSTEM]</b> .)</div> <div>NoGo to the next step.</div> |
| 6 | <div><b>VERIFY THAT NO OTHER DTCs ARE PRESENT</b></div> <ul style="list-style-type: none"><li>• Are any DTCs present?</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                        | <div>YesGo to the applicable DTC inspection.<br/><br/>(See <b>DTC TABLE [ADVANCED KEYLESS ENTRY AND PUSH BUTTON START SYSTEM]</b> .)</div> <div>NoDTC troubleshooting completed.</div>                            |

2012 - Mazda6 - Body and Accessories

DTC B10D3:23 [ADVANCED KEYLESS ENTRY AND PUSH BUTTON START SYSTEM]

|                     |                                                                                                                                                                                                                                                                                                          |
|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| DETECTION CONDITION | The request switch (RF) ON signal is detected for 2 min or more while a vehicle speed signal of 5 km/h {3 mph} or more is input                                                                                                                                                                          |
| POSSIBLE CAUSE      | <ul style="list-style-type: none"><li>• Connector or terminal malfunction</li><li>• Short to ground in wiring harness between front outer handle (RH) terminal D and keyless control module terminal 3U</li><li>• Request switch (RF) malfunction</li><li>• Keyless control module malfunction</li></ul> |



| Step | Inspection                                                                                                                                                                                                                                                                                                                                                                  | Action                                                                                                                                                                                   |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1    | <b>INSPECT FRONT OUTER HANDLE (RH) 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 front outer handle (RH) connector.</li> <li>Inspect the connector and terminals (corrosion, damage, pin disconnection).</li> <li>Is there any malfunction?</li> </ul> | Yes Repair or replace the connector or terminals, then go to Step 5.                                                                                                                     |
|      |                                                                                                                                                                                                                                                                                                                                                                             | No Go to the next step.                                                                                                                                                                  |
| 2    | <b>INSPECT KEYLESS CONTROL MODULE CONNECTOR CONDITION</b> <ul style="list-style-type: none"> <li>Disconnect the keyless control module connector.</li> <li>Inspect the connector and terminals (corrosion, damage, pin disconnection).</li> <li>Is there any malfunction?</li> </ul>                                                                                        | Yes Repair or replace the connector or terminals, then go to Step 5.                                                                                                                     |
|      |                                                                                                                                                                                                                                                                                                                                                                             | No Go to the next step.                                                                                                                                                                  |
| 3    | <b>INSPECT REQUEST SWITCH (RF) CIRCUIT FOR SHORT TO GROUND</b> <ul style="list-style-type: none"> <li>Inspect for continuity between front outer handle (RH) terminal D (wiring harness-side) and body ground.</li> <li>Is there continuity?</li> </ul>                                                                                                                     | Yes Repair or replace the wiring harness for a possible short to ground, then go to Step 5.                                                                                              |
|      |                                                                                                                                                                                                                                                                                                                                                                             | No Go to the next step.                                                                                                                                                                  |
| 4    | <b>INSPECT REQUEST SWITCH (RF)</b> <ul style="list-style-type: none"> <li>Inspect the request switch (RF).</li> <li>(See <a href="#">REQUEST SWITCH INSPECTION [ADVANCED KEYLESS ENTRY AND PUSH BUTTON START SYSTEM]</a>.)</li> <li>Is there any malfunction?</li> </ul>                                                                                                    | Yes Replace the request switch (RF), then go to the next step.<br><br>(See <a href="#">REQUEST SWITCH REMOVAL/ INSTALLATION [ADVANCED KEYLESS ENTRY AND PUSH BUTTON START SYSTEM]</a> .) |
|      |                                                                                                                                                                                                                                                                                                                                                                             | No Go to the next step.                                                                                                                                                                  |
| 5    | <b>VERIFY TROUBLESHOOTING COMPLETED</b>                                                                                                                                                                                                                                                                                                                                     | Yes Repeat the inspection from Step 1.<br><br>If the malfunction recurs, replace the keyless                                                                                             |

|   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                   |
|---|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|   | <ul style="list-style-type: none"><li>• Make sure to reconnect the disconnected connectors.</li><li>• Reconnect the negative battery cable.</li><li>• Clear the DTC from keyless control module memory using the M-MDS.<br/><br/>(See <b>CLEARING DTC [ADVANCED KEYLESS ENTRY AND PUSH BUTTON START SYSTEM]</b> .)</li><li>• Perform the advanced keyless entry and push button start system DTC inspection using the M-MDS.<br/><br/>(See <b>DTC INSPECTION [ADVANCED KEYLESS ENTRY AND PUSH BUTTON START SYSTEM]</b> .)</li><li>• Is the same DTC present?</li></ul> | <div>control module, then go to the next step.<br/><br/>(See <b>KEYLESS CONTROL MODULE REMOVAL/ INSTALLATION [ADVANCED KEYLESS ENTRY AND PUSH BUTTON START SYSTEM]</b> .)</div> <div>NoGo to the next step.</div> |
| 6 | <b>VERIFY THAT NO OTHER DTCs ARE PRESENT</b> <ul style="list-style-type: none"><li>• Are any DTCs present?</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <div>YesGo to the applicable DTC inspection.<br/><br/>(See <b>DTC TABLE [ADVANCED KEYLESS ENTRY AND PUSH BUTTON START SYSTEM]</b> .)</div> <div>NoDTC troubleshooting completed.</div>                            |