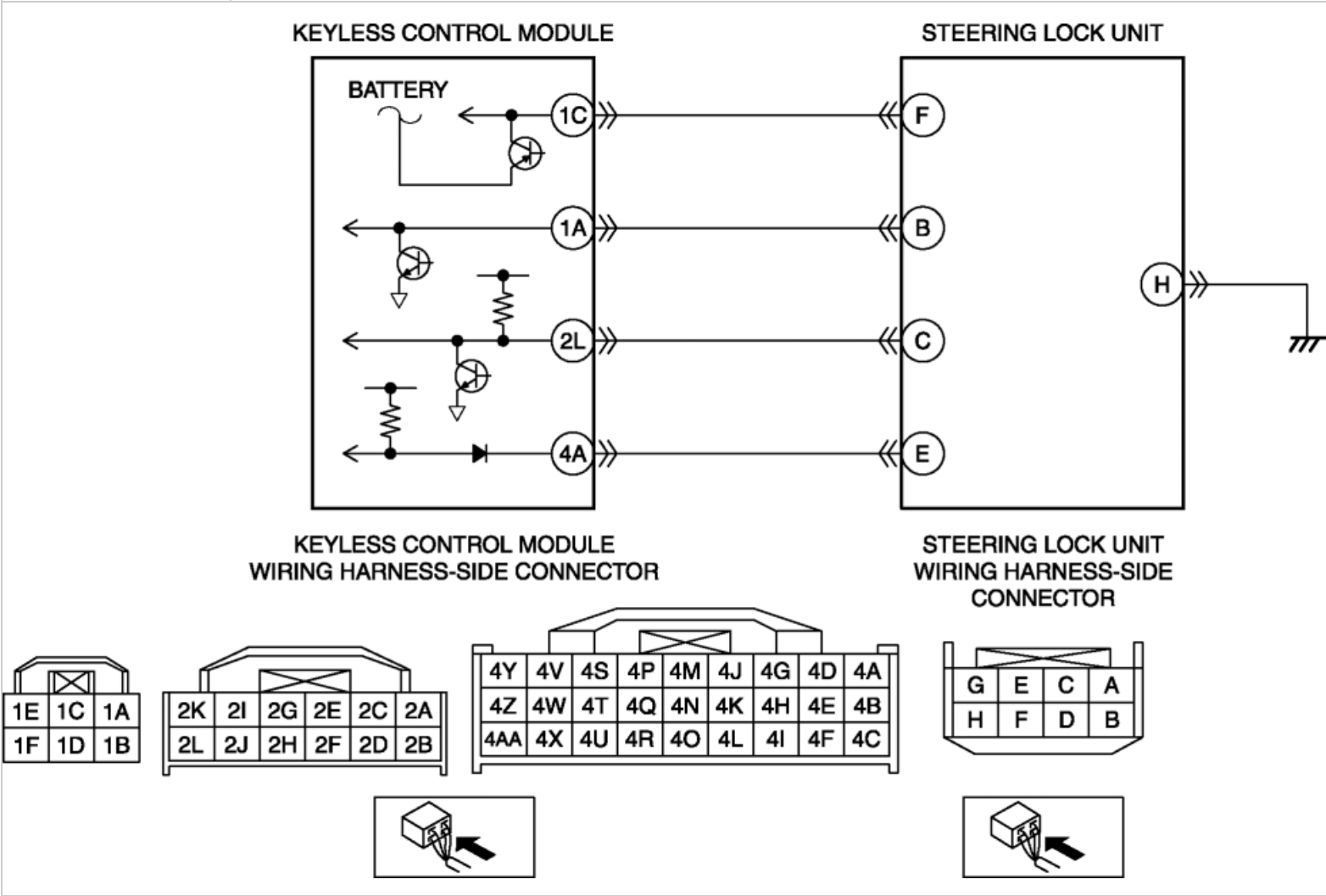


2012 - Mazda6 - Body and Accessories

DTC B100C:11 [ADVANCED KEYLESS ENTRY AND PUSH BUTTON START SYSTEM]

|                     |                                                                                                                                                                                                                                                                                                    |
|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| DETECTION CONDITION | Steering lock unit power supply circuit voltage less than threshold is detected for 0.2 s, while the circuit is active                                                                                                                                                                             |
| POSSIBLE CAUSE      | <ul style="list-style-type: none"><li>• Connector or terminal malfunction</li><li>• Short to ground in wiring harness between steering lock unit terminal F and keyless control module terminal 1C</li><li>• Steering lock unit malfunction</li><li>• Keyless control module malfunction</li></ul> |



Diagnostic Procedure

| Step | Inspection                                     | Action                                                              |
|------|------------------------------------------------|---------------------------------------------------------------------|
| 1    | INSPECT STEERING LOCK UNIT CONNECTOR CONDITION | YesRepair or replace the connector or terminals, then go to Step 5. |

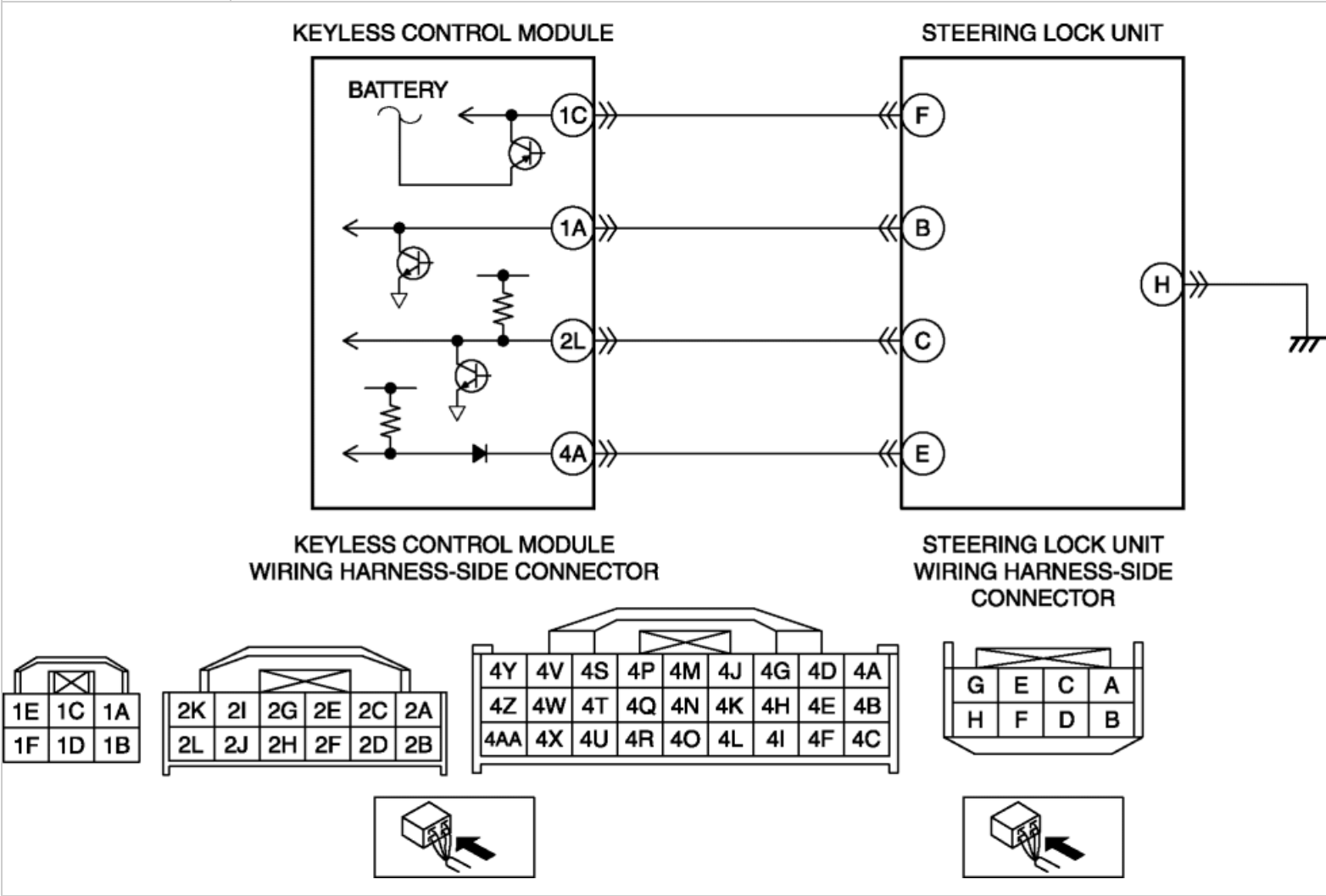
|   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |     |                                                                                                                                                                                                                                                                                                                                                                                |
|---|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|   | <ul style="list-style-type: none"> <li>• Switch the ignition to off.</li> <li>• Disconnect the negative battery cable.</li> <li>• Disconnect the steering lock unit connector.</li> <li>• Inspect the connector and terminals (corrosion, damage, pin disconnection).</li> <li>• Is there any malfunction?</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 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 STEERING LOCK UNIT POWER SUPPLY CIRCUIT FOR SHORT TO GROUND</b> <ul style="list-style-type: none"> <li>• Inspect for continuity between steering lock unit terminal F (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 STEERING LOCK UNIT</b> <ul style="list-style-type: none"> <li>• Inspect the steering lock unit.</li> </ul> <p>(See <a href="#">STEERING LOCK UNIT INSPECTION [WITH ADVANCED KEYLESS ENTRY AND PUSH BUTTON START SYSTEM]</a> .)</p> <ul style="list-style-type: none"> <li>• Is there any malfunction?</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Yes | Replace the steering lock unit and perform steering lock unit programming, then go to the next step.<br><br>(See <a href="#">STEERING WHEEL AND COLUMN REMOVAL/ INSTALLATION [WITHOUT ADVANCED KEYLESS ENTRY AND PUSH BUTTON START SYSTEM]</a> .)<br><br>(See <a href="#">STEERING LOCK UNIT ID CODE REGISTRATION [ADVANCED KEYLESS ENTRY AND PUSH BUTTON START SYSTEM]</a> .) |
|   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | No  | Go to the next step.                                                                                                                                                                                                                                                                                                                                                           |
| 5 | <b>VERIFY TROUBLESHOOTING COMPLETED</b> <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.</li> </ul> <p>(See <a href="#">CLEARING DTC [ADVANCED KEYLESS ENTRY AND PUSH BUTTON START SYSTEM]</a> .)</p> <ul style="list-style-type: none"> <li>• Switch the ignition to off, then open the door to lock the steering.</li> <li>• Perform the advanced keyless entry and push button start system DTC inspection using the M-MDS.</li> </ul> <p>(See <a href="#">DTC INSPECTION [ADVANCED KEYLESS ENTRY AND PUSH BUTTON START SYSTEM]</a> .)</p> <ul style="list-style-type: none"> <li>• Is the same DTC present?</li> </ul> | Yes | Repeat the inspection from Step 1.<br><br>If the malfunction recurs, replace the keyless control module, then go to the next step.<br><br>(See <a href="#">KEYLESS CONTROL MODULE REMOVAL/ INSTALLATION [ADVANCED KEYLESS ENTRY AND PUSH BUTTON START SYSTEM]</a> .)                                                                                                           |
|   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | No  | Go to the next step.                                                                                                                                                                                                                                                                                                                                                           |
| 6 | <b>VERIFY THAT NO OTHER DTCs ARE PRESENT</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Yes | Go to the applicable DTC inspection.<br><br>(See <a href="#">DTC TABLE [ADVANCED KEYLESS ENTRY AND PUSH BUTTON</a>                                                                                                                                                                                                                                                             |

|  |                                                                       |                                   |
|--|-----------------------------------------------------------------------|-----------------------------------|
|  | <ul style="list-style-type: none"><li>Are any DTCs present?</li></ul> | <a href="#">START SYSTEM</a> .)   |
|  |                                                                       | No DTC troubleshooting completed. |

2012 - Mazda6 - Body and Accessories

DTC B100C:11 [ADVANCED KEYLESS ENTRY AND PUSH BUTTON START SYSTEM]

|                     |                                                                                                                                                                                                                                                                                                    |
|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| DETECTION CONDITION | Steering lock unit power supply circuit voltage less than threshold is detected for 0.2 s, while the circuit is active                                                                                                                                                                             |
| POSSIBLE CAUSE      | <ul style="list-style-type: none"><li>• Connector or terminal malfunction</li><li>• Short to ground in wiring harness between steering lock unit terminal F and keyless control module terminal 1C</li><li>• Steering lock unit malfunction</li><li>• Keyless control module malfunction</li></ul> |



Diagnostic Procedure

| Step | Inspection                                     | Action                                                              |
|------|------------------------------------------------|---------------------------------------------------------------------|
| 1    | INSPECT STEERING LOCK UNIT CONNECTOR CONDITION | YesRepair or replace the connector or terminals, then go to Step 5. |

|   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |     |                                                                                                                                                                                                                                                                                                                                                                                |
|---|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|   | <ul style="list-style-type: none"> <li>• Switch the ignition to off.</li> <li>• Disconnect the negative battery cable.</li> <li>• Disconnect the steering lock unit connector.</li> <li>• Inspect the connector and terminals (corrosion, damage, pin disconnection).</li> <li>• Is there any malfunction?</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 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 STEERING LOCK UNIT POWER SUPPLY CIRCUIT FOR SHORT TO GROUND</b> <ul style="list-style-type: none"> <li>• Inspect for continuity between steering lock unit terminal F (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 STEERING LOCK UNIT</b> <ul style="list-style-type: none"> <li>• Inspect the steering lock unit.</li> </ul> <p>(See <a href="#">STEERING LOCK UNIT INSPECTION [WITH ADVANCED KEYLESS ENTRY AND PUSH BUTTON START SYSTEM]</a> .)</p> <ul style="list-style-type: none"> <li>• Is there any malfunction?</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Yes | Replace the steering lock unit and perform steering lock unit programming, then go to the next step.<br><br>(See <a href="#">STEERING WHEEL AND COLUMN REMOVAL/ INSTALLATION [WITHOUT ADVANCED KEYLESS ENTRY AND PUSH BUTTON START SYSTEM]</a> .)<br><br>(See <a href="#">STEERING LOCK UNIT ID CODE REGISTRATION [ADVANCED KEYLESS ENTRY AND PUSH BUTTON START SYSTEM]</a> .) |
|   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | No  | Go to the next step.                                                                                                                                                                                                                                                                                                                                                           |
| 5 | <b>VERIFY TROUBLESHOOTING COMPLETED</b> <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.</li> </ul> <p>(See <a href="#">CLEARING DTC [ADVANCED KEYLESS ENTRY AND PUSH BUTTON START SYSTEM]</a> .)</p> <ul style="list-style-type: none"> <li>• Switch the ignition to off, then open the door to lock the steering.</li> <li>• Perform the advanced keyless entry and push button start system DTC inspection using the M-MDS.</li> </ul> <p>(See <a href="#">DTC INSPECTION [ADVANCED KEYLESS ENTRY AND PUSH BUTTON START SYSTEM]</a> .)</p> <ul style="list-style-type: none"> <li>• Is the same DTC present?</li> </ul> | Yes | Repeat the inspection from Step 1.<br><br>If the malfunction recurs, replace the keyless control module, then go to the next step.<br><br>(See <a href="#">KEYLESS CONTROL MODULE REMOVAL/ INSTALLATION [ADVANCED KEYLESS ENTRY AND PUSH BUTTON START SYSTEM]</a> .)                                                                                                           |
|   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | No  | Go to the next step.                                                                                                                                                                                                                                                                                                                                                           |
| 6 | <b>VERIFY THAT NO OTHER DTCs ARE PRESENT</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Yes | Go to the applicable DTC inspection.<br><br>(See <a href="#">DTC TABLE [ADVANCED KEYLESS ENTRY AND PUSH BUTTON</a>                                                                                                                                                                                                                                                             |

|  |                         |  |                                   |
|--|-------------------------|--|-----------------------------------|
|  | • Are any DTCs present? |  | <a href="#">START SYSTEM</a> ] .) |
|  |                         |  | No DTC troubleshooting completed. |