

2012 - Mazda6 - Body and Accessories

SECURITY LIGHT: 13, DTC: B10D7:94/ P1260:00 [IMMOBILIZER SYSTEM (KEYLESS ENTRY SYSTEM)]

|                |                                 |                    |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|----------------|---------------------------------|--------------------|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| DTC            | Security light flashing pattern |                    | 13       | Key ID number data cannot be read                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                | M-MDS display                   | Instrument cluster | B10D7:94 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|                |                                 | PCM                | P1260:00 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| POSSIBLE CAUSE |                                 |                    |          | <ul style="list-style-type: none"><li>• There is no transponder in the key</li><li>• Transponder malfunction (key code is not output)</li><li>• If any of the following items are touching or near key head, signal communication between key and vehicle is negatively affected, resulting in the engine not starting:<ul style="list-style-type: none"><li>▪ Spare keys</li><li>▪ Keys for other vehicles equipped with immobilizer system</li><li>▪ Any metallic object</li><li>▪ Any electronic device, or any credit or other card with magnetic strips</li></ul></li></ul> |
|                |                                 |                    |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

#### EXAMPLES:



METAL RING LYING ON KEY HEAD



METAL PART OF ANOTHER  
KEY TOUCHING KEY HEAD



KEY IS NEAR OR TOUCHING  
ANOTHER IMMOBILIZER SYSTEM KEY

- Coil antenna malfunction
- PCM malfunction
- Instrument cluster malfunction

#### Diagnostic Procedure

| Step | Inspection                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Action                                                                                                                                                                               |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1    | <b>PERFORM DTC INSPECTION</b> <ul style="list-style-type: none"><li>• Clear the DTC from the instrument cluster and PCM memory using the M-MDS.<br/>(See <b>CLEARING DTC [IMMOBILIZER SYSTEM (KEYLESS ENTRY SYSTEM)]</b>.)</li><li>• Perform the immobilizer system (keyless entry system) DTC inspection using the M-MDS.<br/>(See <b>DTC INSPECTION [IMMOBILIZER SYSTEM (KEYLESS ENTRY SYSTEM)]</b>.)</li><li>• Is the following DTC present?<ul style="list-style-type: none"><li>▪ Instrument cluster:</li></ul></li></ul> | Yes Perform the security light: 13, DTC: B10D7:05/P1260:00 inspection.<br><br>(See <b>SECURITY LIGHT: 13, DTC: B10D7:05/ P1260:00 [IMMOBILIZER SYSTEM (KEYLESS ENTRY SYSTEM)]</b> .) |
|      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | No Go to the next step.                                                                                                                                                              |

|   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |     |                                                                                                                                                                                                                                                                                                                  |
|---|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|   | <p>B10D7:05</p> <ul style="list-style-type: none"> <li>PCM: P1260:00</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |     |                                                                                                                                                                                                                                                                                                                  |
| 2 | <p><b>VERIFY THAT THERE IS A VALID KEY</b></p> <ul style="list-style-type: none"> <li>Are there any valid keys which can start the engine other than the cause of the displayed DTC?</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Yes | Go to the next step.                                                                                                                                                                                                                                                                                             |
|   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | No  | <p>Program an additional key referring to the immobilizer system-related parts programming, then go to the next step.</p> <p>(See <b>IMMOBILIZER SYSTEM-RELATED PARTS PROGRAMMING [KEYLESS ENTRY SYSTEM]</b>.)</p>                                                                                               |
| 3 | <p><b>PERFORM DTC INSPECTION</b></p> <ul style="list-style-type: none"> <li>Switch the ignition to ON using the valid key other than the cause of the displayed DTC (engine off).</li> <li>Clear the DTC from the instrument cluster and PCM memory using the M-MDS.</li> </ul> <p>(See <b>CLEARING DTC [IMMOBILIZER SYSTEM (KEYLESS ENTRY SYSTEM)]</b>.)</p> <ul style="list-style-type: none"> <li>Perform the immobilizer system (keyless entry system) DTC inspection using the M-MDS.</li> </ul> <p>(See <b>DTC INSPECTION [IMMOBILIZER SYSTEM (KEYLESS ENTRY SYSTEM)]</b>.)</p> <ul style="list-style-type: none"> <li>Is the same DTC present?</li> </ul> | Yes | <p>Replace the coil antenna, then go to the next step.</p> <p>(See <b>COIL ANTENNA REMOVAL/ INSTALLATION [KEYLESS ENTRY SYSTEM]</b>.)</p>                                                                                                                                                                        |
|   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | No  | <p>Dispose of the malfunctioning key and program a new key if necessary, then go to Step 6.</p> <p>(See <b>IMMOBILIZER SYSTEM-RELATED PARTS PROGRAMMING [KEYLESS ENTRY SYSTEM]</b>.)</p>                                                                                                                         |
| 4 | <p><b>PERFORM DTC INSPECTION</b></p> <ul style="list-style-type: none"> <li>Clear the DTC from the instrument cluster and PCM memory using the M-MDS.</li> </ul> <p>(See <b>CLEARING DTC [IMMOBILIZER SYSTEM (KEYLESS ENTRY SYSTEM)]</b>.)</p> <ul style="list-style-type: none"> <li>Perform the immobilizer system (keyless entry system) DTC inspection using the M-MDS.</li> </ul> <p>(See <b>DTC INSPECTION [IMMOBILIZER SYSTEM (KEYLESS ENTRY SYSTEM)]</b>.)</p> <ul style="list-style-type: none"> <li>Is the same DTC present?</li> </ul>                                                                                                                | Yes | <p>Replace the PCM and program the immobilizer system-related parts, then go to the next step.</p> <p>(See <b>PCM REMOVAL/ INSTALLATION [MZR 2.5]</b>.)</p> <p>(See <b>PCM REMOVAL/ INSTALLATION [MZI 3.7 V6]</b>.)</p> <p>(See <b>IMMOBILIZER SYSTEM-RELATED PARTS PROGRAMMING [KEYLESS ENTRY SYSTEM]</b>.)</p> |
|   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | No  | Go to Step 6.                                                                                                                                                                                                                                                                                                    |

|   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |     |                                                                                                                                                                                                                                                                     |
|---|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 5 | <b>VERIFY TROUBLESHOOTING COMPLETED</b> <ul style="list-style-type: none"> <li>Clear the DTC from the instrument cluster and PCM memory using the M-MDS.</li> </ul> <p>(See <b>CLEARING DTC [IMMOBILIZER SYSTEM (KEYLESS ENTRY SYSTEM)]</b>.)</p> <ul style="list-style-type: none"> <li>Perform the immobilizer system (keyless entry system) DTC inspection using the M-MDS.</li> </ul> <p>(See <b>DTC INSPECTION [IMMOBILIZER SYSTEM (KEYLESS ENTRY SYSTEM)]</b>.)</p> <ul style="list-style-type: none"> <li>Is the same DTC present?</li> </ul> | Yes | Replace the instrument cluster and program the immobilizer system-related parts, then go to the next step.<br><br>(See <b>INSTRUMENT CLUSTER REMOVAL/ INSTALLATION</b> .)<br><br>(See <b>IMMOBILIZER SYSTEM-RELATED PARTS PROGRAMMING [KEYLESS ENTRY SYSTEM]</b> .) |
|   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | No  | Go to the next step.                                                                                                                                                                                                                                                |
| 6 | <b>VERIFY THAT NO OTHER DTCs ARE PRESENT</b> <ul style="list-style-type: none"> <li>Are any DTCs present?</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                 | Yes | Go to the applicable DTC inspection.<br><br>(See <b>DTC TABLE [IMMOBILIZER SYSTEM (KEYLESS ENTRY SYSTEM)]</b> .)                                                                                                                                                    |
|   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | No  | DTC troubleshooting completed.                                                                                                                                                                                                                                      |

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| DTC            | Security light flashing pattern |                    | 13       | Key ID number data cannot be read                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                | M-MDS display                   | Instrument cluster | B10D7:94 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|                |                                 | PCM                | P1260:00 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| POSSIBLE CAUSE |                                 |                    |          | <ul style="list-style-type: none"><li>• There is no transponder in the key</li><li>• Transponder malfunction (key code is not output)</li><li>• If any of the following items are touching or near key head, signal communication between key and vehicle is negatively affected, resulting in the engine not starting:<ul style="list-style-type: none"><li>▪ Spare keys</li><li>▪ Keys for other vehicles equipped with immobilizer system</li><li>▪ Any metallic object</li><li>▪ Any electronic device, or any credit or other card with magnetic strips</li></ul></li></ul> |
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#### Diagnostic Procedure

| Step | Inspection                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Action                                                                                                                                                                               |
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| 1    | <b>PERFORM DTC INSPECTION</b> <ul style="list-style-type: none"><li>• Clear the DTC from the instrument cluster and PCM memory using the M-MDS.<br/>(See <b>CLEARING DTC [IMMOBILIZER SYSTEM (KEYLESS ENTRY SYSTEM)]</b>.)</li><li>• Perform the immobilizer system (keyless entry system) DTC inspection using the M-MDS.<br/>(See <b>DTC INSPECTION [IMMOBILIZER SYSTEM (KEYLESS ENTRY SYSTEM)]</b>.)</li><li>• Is the following DTC present?<ul style="list-style-type: none"><li>▪ Instrument cluster:</li></ul></li></ul> | Yes Perform the security light: 13, DTC: B10D7:05/P1260:00 inspection.<br><br>(See <b>SECURITY LIGHT: 13, DTC: B10D7:05/ P1260:00 [IMMOBILIZER SYSTEM (KEYLESS ENTRY SYSTEM)]</b> .) |
|      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | No Go to the next step.                                                                                                                                                              |

|   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |     |                                                                                                                                                                                                                                                                                                                  |
|---|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|   | <p>B10D7:05</p> <ul style="list-style-type: none"> <li>PCM: P1260:00</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |     |                                                                                                                                                                                                                                                                                                                  |
| 2 | <p><b>VERIFY THAT THERE IS A VALID KEY</b></p> <ul style="list-style-type: none"> <li>Are there any valid keys which can start the engine other than the cause of the displayed DTC?</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Yes | Go to the next step.                                                                                                                                                                                                                                                                                             |
|   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | No  | <p>Program an additional key referring to the immobilizer system-related parts programming, then go to the next step.</p> <p>(See <b>IMMOBILIZER SYSTEM-RELATED PARTS PROGRAMMING [KEYLESS ENTRY SYSTEM]</b>.)</p>                                                                                               |
| 3 | <p><b>PERFORM DTC INSPECTION</b></p> <ul style="list-style-type: none"> <li>Switch the ignition to ON using the valid key other than the cause of the displayed DTC (engine off).</li> <li>Clear the DTC from the instrument cluster and PCM memory using the M-MDS.</li> </ul> <p>(See <b>CLEARING DTC [IMMOBILIZER SYSTEM (KEYLESS ENTRY SYSTEM)]</b>.)</p> <ul style="list-style-type: none"> <li>Perform the immobilizer system (keyless entry system) DTC inspection using the M-MDS.</li> </ul> <p>(See <b>DTC INSPECTION [IMMOBILIZER SYSTEM (KEYLESS ENTRY SYSTEM)]</b>.)</p> <ul style="list-style-type: none"> <li>Is the same DTC present?</li> </ul> | Yes | <p>Replace the coil antenna, then go to the next step.</p> <p>(See <b>COIL ANTENNA REMOVAL/ INSTALLATION [KEYLESS ENTRY SYSTEM]</b>.)</p>                                                                                                                                                                        |
|   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | No  | <p>Dispose of the malfunctioning key and program a new key if necessary, then go to Step 6.</p> <p>(See <b>IMMOBILIZER SYSTEM-RELATED PARTS PROGRAMMING [KEYLESS ENTRY SYSTEM]</b>.)</p>                                                                                                                         |
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|   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | No  | Go to Step 6.                                                                                                                                                                                                                                                                                                    |

|   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |     |                                                                                                                                                                                                                                                                     |
|---|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
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|   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | No  | Go to the next step.                                                                                                                                                                                                                                                |
| 6 | <b>VERIFY THAT NO OTHER DTCs ARE PRESENT</b> <ul style="list-style-type: none"> <li>Are any DTCs present?</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                 | Yes | Go to the applicable DTC inspection.<br><br>(See <b>DTC TABLE [IMMOBILIZER SYSTEM (KEYLESS ENTRY SYSTEM)]</b> .)                                                                                                                                                    |
|   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | No  | DTC troubleshooting completed.                                                                                                                                                                                                                                      |