

## 2012 - Mazda6 - Restraints

### NO.1 AIR BAG SYSTEM WARNING LIGHT DOES NOT ILLUMINATE

|                |                                                                                                                                                                                                                                                                                                                                                                                          |
|----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1              | Air bag system warning light does not illuminate.                                                                                                                                                                                                                                                                                                                                        |
| DESCRIPTION    | Air bag system warning light does not illuminate while the air bag system is performing initialization.                                                                                                                                                                                                                                                                                  |
| POSSIBLE CAUSE | <ul style="list-style-type: none"><li>• Instrument cluster (circuit board) malfunction</li><li>• Short to ground circuit in wiring harness between instrument cluster and SAS control module</li><li>• Air bag system warning light (LED) malfunction</li><li>• Communication error between SAS control module and instrument cluster</li><li>• SAS control module malfunction</li></ul> |

### Diagnostic Procedure

| STEP | INSPECTION                                                                                                                                                                                                               | ACTION                                                                                          |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|
| 1    | <b>INSPECT OTHER WARNING AND INDICATOR LIGHTS CIRCUIT IN INSTRUMENT CLUSTER</b> <ul style="list-style-type: none"><li>• Switch the ignition to ON.</li><li>• Do other warning and indicator lights illuminate?</li></ul> | Yes Switch the ignition to off, then go to the next step.                                       |
|      |                                                                                                                                                                                                                          | No Inspect the instrument cluster power supply system and ground system, then go to Step 3.     |
| 2    | <b>INSPECT DTCS IN SAS CONTROL MODULE</b> <ul style="list-style-type: none"><li>• Inspect the DTC for the SAS control module on-board diagnostic system.</li><li>• Have DTCs been recorded in memory?</li></ul>          | Yes Perform the applicable DTC inspection, then go to Step 5. (See <a href="#">DTC TABLE</a> .) |
|      |                                                                                                                                                                                                                          | No Go to the next step.                                                                         |
| 3    | <b>VERIFY WHERE MALFUNCTION IS IN WARNING LIGHTS INDICATION CIRCUIT OR ELSEWHERE</b>                                                                                                                                     | Yes Go to the next step.                                                                        |
|      |                                                                                                                                                                                                                          |                                                                                                 |

|   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |     |                                                                                                                                |
|---|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|--------------------------------------------------------------------------------------------------------------------------------|
|   | <ul style="list-style-type: none"> <li>Turn on all warning lights and indicator lights using the instrument cluster PID WL+IL of simulation function using the M-MDS.</li> </ul> <p>(See <b>ACTIVE COMMAND MODES INSPECTION [INSTRUMENT CLUSTER]</b>.)</p> <ul style="list-style-type: none"> <li>Do other warning and indicator lights illuminate?</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | No  | <p>Replace the instrument cluster.</p> <p>(See <b>INSTRUMENT CLUSTER REMOVAL/ INSTALLATION</b>.)</p> <p>Then go to Step 5.</p> |
| 4 | <p><b>INSPECT DTCS IN INSTRUMENT CLUSTER</b></p> <ul style="list-style-type: none"> <li>Inspect the DTC for the instrument cluster on-board diagnostic system.</li> <li>Have DTCs been recorded in memory?</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Yes | <p>Perform the applicable DTC inspection, then go to the next step.</p> <p>(See <b>DTC TABLE [INSTRUMENT CLUSTER]</b>.)</p>    |
|   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | No  | <p>Go to the next step.</p>                                                                                                    |
| 5 | <p><b>CONFIRM THAT MALFUNCTION SYMPTOMS DO NOT RECUR AFTER REPAIR</b></p> <p><b>WARNING:</b></p> <ul style="list-style-type: none"> <li>Handling the air bag system components improperly can accidentally deploy the air bag modules and pre-tensioner seat belts, which may seriously injure you.</li> </ul> <p>Read the air bag system service warnings and cautions before handling the air bag system components.</p> <p>(See <b>AIR BAG SYSTEM SERVICE WARNINGS</b>.)</p> <p>(See <b>AIR BAG SYSTEM SERVICE CAUTIONS</b>.)</p> <ul style="list-style-type: none"> <li>Switch the ignition to off.</li> <li>Disconnect the negative battery cable and wait for <b>1 min or more</b>.</li> <li>Connect all disconnected SAS system connectors.</li> <li>Connect the negative battery cable.</li> <li>Switch the ignition to ON.</li> <li>Does the air bag system warning light operate properly?</li> </ul> | Yes | <p>Verify that there are no DTCs in the memory. If there are no DTCs, the troubleshooting is completed.</p>                    |
|   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | No  | <p>Recheck malfunction symptoms, then repeat from Step 1 if malfunction recurs.</p>                                            |

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| DESCRIPTION    | Air bag system warning light does not illuminate while the air bag system is performing initialization.                                                                                                                                                                                                                                                                                  |
| POSSIBLE CAUSE | <ul style="list-style-type: none"><li>• Instrument cluster (circuit board) malfunction</li><li>• Short to ground circuit in wiring harness between instrument cluster and SAS control module</li><li>• Air bag system warning light (LED) malfunction</li><li>• Communication error between SAS control module and instrument cluster</li><li>• SAS control module malfunction</li></ul> |

### Diagnostic Procedure

| STEP | INSPECTION                                                                                                                                                                                                               | ACTION                                                                                          |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|
| 1    | <b>INSPECT OTHER WARNING AND INDICATOR LIGHTS CIRCUIT IN INSTRUMENT CLUSTER</b> <ul style="list-style-type: none"><li>• Switch the ignition to ON.</li><li>• Do other warning and indicator lights illuminate?</li></ul> | Yes Switch the ignition to off, then go to the next step.                                       |
|      |                                                                                                                                                                                                                          | No Inspect the instrument cluster power supply system and ground system, then go to Step 3.     |
| 2    | <b>INSPECT DTCS IN SAS CONTROL MODULE</b> <ul style="list-style-type: none"><li>• Inspect the DTC for the SAS control module on-board diagnostic system.</li><li>• Have DTCs been recorded in memory?</li></ul>          | Yes Perform the applicable DTC inspection, then go to Step 5. (See <a href="#">DTC TABLE</a> .) |
|      |                                                                                                                                                                                                                          | No Go to the next step.                                                                         |
| 3    | <b>VERIFY WHERE MALFUNCTION IS IN WARNING LIGHTS INDICATION CIRCUIT OR ELSEWHERE</b>                                                                                                                                     | Yes Go to the next step.                                                                        |
|      |                                                                                                                                                                                                                          |                                                                                                 |

|   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |     |                                                                                                                                |
|---|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|--------------------------------------------------------------------------------------------------------------------------------|
|   | <ul style="list-style-type: none"> <li>• Turn on all warning lights and indicator lights using the instrument cluster PID WL+IL of simulation function using the M-MDS.</li> </ul> <p>(See <b>ACTIVE COMMAND MODES INSPECTION [INSTRUMENT CLUSTER]</b>.)</p> <ul style="list-style-type: none"> <li>• Do other warning and indicator lights illuminate?</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | No  | <p>Replace the instrument cluster.</p> <p>(See <b>INSTRUMENT CLUSTER REMOVAL/ INSTALLATION</b>.)</p> <p>Then go to Step 5.</p> |
| 4 | <p><b>INSPECT DTCS IN INSTRUMENT CLUSTER</b></p> <ul style="list-style-type: none"> <li>• Inspect the DTC for the instrument cluster on-board diagnostic system.</li> <li>• Have DTCs been recorded in memory?</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Yes | <p>Perform the applicable DTC inspection, then go to the next step.</p> <p>(See <b>DTC TABLE [INSTRUMENT CLUSTER]</b>.)</p>    |
|   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | No  | Go to the next step.                                                                                                           |
| 5 | <p><b>CONFIRM THAT MALFUNCTION SYMPTOMS DO NOT RECUR AFTER REPAIR</b></p> <p><b>WARNING:</b></p> <ul style="list-style-type: none"> <li>• Handling the air bag system components improperly can accidentally deploy the air bag modules and pre-tensioner seat belts, which may seriously injure you.</li> </ul> <p>Read the air bag system service warnings and cautions before handling the air bag system components.</p> <p>(See <b>AIR BAG SYSTEM SERVICE WARNINGS</b>.)</p> <p>(See <b>AIR BAG SYSTEM SERVICE CAUTIONS</b>.)</p> <ul style="list-style-type: none"> <li>• Switch the ignition to off.</li> <li>• Disconnect the negative battery cable and wait for <b>1 min or more</b>.</li> <li>• Connect all disconnected SAS system connectors.</li> <li>• Connect the negative battery cable.</li> <li>• Switch the ignition to ON.</li> <li>• Does the air bag system warning light operate properly?</li> </ul> | Yes | <p>Verify that there are no DTCs in the memory. If there are no DTCs, the troubleshooting is completed.</p>                    |
|   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | No  | Recheck malfunction symptoms, then repeat from Step 1 if malfunction recurs.                                                   |