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## 2015 MAZDA 5 / Premacy OEM Service and Repair Workshop Manual

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| Step | Inspection                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Action                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
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| 2    | <p><b>INSPECT DRIVER-SIDE REAR PRE-TENSIONER SEAT BELT CIRCUIT FOR SHORT TO GROUND</b></p> <ul style="list-style-type: none"> <li>• Remove the column cover. (See <b>COLUMN COVER REMOVAL/INSTALLATION</b>.)</li> <li>• Disconnect the clock spring connector. (See <b>CLOCK SPRING REMOVAL/INSTALLATION [TWO-STEP DEPLOYMENT CONTROL SYSTEM - US/CANADA/ISRAEL SPEC.]</b>.)</li> <li>• Remove the glove compartment. (See <b>GLOVE COMPARTMENT REMOVAL/INSTALLATION</b>.)</li> <li>• Disconnect the passenger-side air bag module connector. (See <b>PASSENGER-SIDE AIR BAG MODULE REMOVAL/INSTALLATION [TWO-STEP DEPLOYMENT CONTROL SYSTEM - US/CANADA/ISRAEL SPEC.]</b>.)</li> <li>• Disconnect the driver and passenger-side front seat connectors. (See <b>FRONT SEAT REMOVAL/INSTALLATION</b>.)</li> <li>• Remove the driver and passenger-side B-pillar lower trim. (See <b>B-PILLAR UPPER TRIM REMOVAL/INSTALLATION</b>.)</li> <li>• Disconnect the driver and passenger-side front pre-tensioner seat belt connector. (See <b>FRONT SEAT BELT REMOVAL/INSTALLATION</b>.)</li> <li>• Remove the passenger-side trunk side trim. (See <b>TRUNK SIDE TRIM REMOVAL/INSTALLATION</b>.)</li> <li>• Disconnect the passenger-side rear pre-tensioner seat belt connector. (See <b>REAR SEAT BELT REMOVAL/INSTALLATION</b>.)</li> <li>• Remove the headliner. (See <b>HEADLINER REMOVAL/INSTALLATION</b>.)</li> <li>• Disconnect the driver and passenger-side curtain air bag module connectors. (See <b>CURTAIN AIR BAG MODULE REMOVAL/INSTALLATION [TWO-STEP DEPLOYMENT CONTROL SYSTEM - US/CANADA/ISRAEL SPEC.]</b>.)</li> <li>• Disconnect the all SAS control module connectors. (See <b>SAS CONTROL MODULE REMOVAL/INSTALLATION [TWO-STEP DEPLOYMENT CONTROL SYSTEM - US/CANADA/ISRAEL SPEC.]</b>.)</li> <li>• Inspect for continuity between the following terminals (wiring harness-side) and body ground: <ul style="list-style-type: none"> <li>— SAS control module terminal 1AB</li> <li>— SAS control module terminal 1AD</li> </ul> </li> </ul> <p><b>Note</b></p> <ul style="list-style-type: none"> <li>• Inspect for continuity while shaking the wiring harness between the SAS control module and driver-side rear pre-tensioner seat belt.</li> </ul> <ul style="list-style-type: none"> <li>• Is there continuity?</li> </ul> | <p>Yes</p> <p>Refer to the wiring diagram and verify whether or not there is a common connector between SAS control module terminal and driver-side rear pre-tensioner seat belt terminal.</p> <p><b>If there is a common connector:</b></p> <ul style="list-style-type: none"> <li>• Determine the malfunctioning part by inspecting the common connector and the terminal for corrosion, damage, or pin disconnection, and the common wiring harness for a short to ground.</li> <li>• Replace the malfunctioning part.</li> </ul> <p><b>If there is no common connector:</b></p> <ul style="list-style-type: none"> <li>• Replace the wiring harness which has a short to ground.</li> </ul> <p>Go to Step 8.</p> |
|      | <p>No</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <p>Go to the next step.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

| Step | Inspection                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |     | Action                                                                                                                                                                                                                   |
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| 7    | <b>INSPECT DRIVER-SIDE REAR PRE-TENSIONER SEAT BELT</b> <ul style="list-style-type: none"> <li>• Switch the ignition off.</li> <li>• Disconnect the negative battery terminal and wait for 1 min or more. (See <b>NEGATIVE BATTERY TERMINAL DISCONNECTION/CONNECTION.</b>)</li> <li>• Connect the SAS control module connectors.</li> <li>• Except for the driver-side rear pre-tensioner seat belt connector, reconnect all disconnected connectors.</li> <li>• Connect the SST (49 N088 0A0) or apply 2 ohms resistance to the driver-side rear pre-tensioner seat belt connector (wiring harness-side) terminals A-B.</li> <li>• Set the SST (49 N088 0A0) to 2 ohms.</li> <li>• Connect the negative battery terminal. (See <b>NEGATIVE BATTERY TERMINAL DISCONNECTION/CONNECTION.</b>)</li> <li>• Switch the ignition ON (engine off or on).</li> <li>• Clear the DTC for the SAS control module using the M-MDS. (See <b>CLEARING DTC [SAS CONTROL MODULE (TWO-STEP DEPLOYMENT CONTROL SYSTEM - US/CANADA/ISRAEL SPEC.).]</b>)</li> <li>• Perform the DTC inspection for the SAS control module using the M-MDS. (See <b>DTC INSPECTION [SAS CONTROL MODULE (TWO-STEP DEPLOYMENT CONTROL SYSTEM - US/CANADA/ISRAEL SPEC.).]</b>)</li> <li>• Are the same DTCs present?</li> </ul> | Yes | Go to the next step.                                                                                                                                                                                                     |
|      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | No  | Replace the driver-side rear pre-tensioner seat belt.<br>(See <b>REAR SEAT BELT REMOVAL/INSTALLATION.</b> )<br>Then go to the next step.                                                                                 |
| 8    | <b>PERFORM SAS CONTROL MODULE DTC INSPECTION</b> <ul style="list-style-type: none"> <li>• Switch the ignition off.</li> <li>• Disconnect the negative battery terminal and wait for 1 min or more. (See <b>NEGATIVE BATTERY TERMINAL DISCONNECTION/CONNECTION.</b>)</li> <li>• Disconnect the SST (49 N088 0A0) or the 2 ohms resistance.</li> <li>• Connect the driver-side rear pre-tensioner seat belt connector.</li> <li>• Connect the negative battery terminal. (See <b>NEGATIVE BATTERY TERMINAL DISCONNECTION/CONNECTION.</b>)</li> <li>• Switch the ignition ON (engine off or on).</li> <li>• Clear the DTC for the SAS control module using the M-MDS. (See <b>CLEARING DTC [SAS CONTROL MODULE (TWO-STEP DEPLOYMENT CONTROL SYSTEM - US/CANADA/ISRAEL SPEC.).]</b>)</li> <li>• Perform the DTC inspection for the SAS control module using the M-MDS. (See <b>DTC INSPECTION [SAS CONTROL MODULE (TWO-STEP DEPLOYMENT CONTROL SYSTEM - US/CANADA/ISRAEL SPEC.).]</b>)</li> <li>• Are the same DTCs present?</li> </ul>                                                                                                                                                                                                                                                     | Yes | Repeat the inspection from Step 1.<br>• If the malfunction recurs, replace the SAS control module. (See <b>SAS CONTROL MODULE REMOVAL/INSTALLATION [TWO-STEP DEPLOYMENT CONTROL SYSTEM - US/CANADA/ISRAEL SPEC.).]</b> ) |
|      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | No  | DTC troubleshooting completed.                                                                                                                                                                                           |

| Step | Inspection                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Action                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
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| 2    | <p><b>INSPECT PASSENGER-SIDE PRE-TENSIONER SEAT BELT CIRCUIT FOR SHORT TO GROUND</b></p> <ul style="list-style-type: none"> <li>• Remove the column cover. (See <b>COLUMN COVER REMOVAL/INSTALLATION</b>.)</li> <li>• Disconnect the clock spring connector. (See <b>CLOCK SPRING REMOVAL/INSTALLATION [TWO-STEP DEPLOYMENT CONTROL SYSTEM - US/CANADA/ISRAEL SPEC.]</b>.)</li> <li>• Remove the glove compartment. (See <b>GLOVE COMPARTMENT REMOVAL/INSTALLATION</b>.)</li> <li>• Disconnect the passenger-side air bag module connector. (See <b>PASSENGER-SIDE AIR BAG MODULE REMOVAL/INSTALLATION [TWO-STEP DEPLOYMENT CONTROL SYSTEM - US/CANADA/ISRAEL SPEC.]</b>.)</li> <li>• Disconnect the driver and passenger-side front seat connectors. (See <b>FRONT SEAT REMOVAL/INSTALLATION</b>.)</li> <li>• Remove the driver and passenger-side B-pillar lower trim. (See <b>B-PILLAR UPPER TRIM REMOVAL/INSTALLATION</b>.)</li> <li>• Disconnect the driver and passenger-side front pre-tensioner seat belt connector. (See <b>FRONT SEAT BELT REMOVAL/INSTALLATION</b>.)</li> <li>• Remove the driver-side trunk side trim. (with rear pre-tensioner seat belt) (See <b>TRUNK SIDE TRIM REMOVAL/INSTALLATION</b>.)</li> <li>• Disconnect the driver-side rear pre-tensioner seat belt connectors. (See <b>REAR SEAT BELT REMOVAL/INSTALLATION</b>.)</li> <li>• Remove the headliner. (See <b>HEADLINER REMOVAL/INSTALLATION</b>.)</li> <li>• Disconnect the driver and passenger-side curtain air bag module connectors. (See <b>CURTAIN AIR BAG MODULE REMOVAL/INSTALLATION [TWO-STEP DEPLOYMENT CONTROL SYSTEM - US/CANADA/ISRAEL SPEC.]</b>.)</li> <li>• Disconnect the all SAS control module connectors. (See <b>SAS CONTROL MODULE REMOVAL/INSTALLATION [TWO-STEP DEPLOYMENT CONTROL SYSTEM - US/CANADA/ISRAEL SPEC.]</b>.)</li> <li>• Inspect for continuity between the following terminals (wiring harness-side) and body ground: <ul style="list-style-type: none"> <li>— SAS control module terminal 1X</li> <li>— SAS control module terminal 1S</li> </ul> </li> </ul> <p><b>Note</b></p> <ul style="list-style-type: none"> <li>• Inspect for continuity while shaking the wiring harness between the SAS control module and passenger-side rear pre-tensioner seat belt.</li> </ul> <p>• Is there continuity?</p> | <p>Yes</p> <p>Refer to the wiring diagram and verify whether or not there is a common connector between SAS control module terminal and passenger-side rear pre-tensioner seat belt terminal.</p> <p><b>If there is a common connector:</b></p> <ul style="list-style-type: none"> <li>• Determine the malfunctioning part by inspecting the common connector and the terminal for corrosion, damage, or pin disconnection, and the common wiring harness for a short to ground.</li> <li>• Replace the malfunctioning part.</li> </ul> <p><b>If there is no common connector:</b></p> <ul style="list-style-type: none"> <li>• Replace the wiring harness which has a short to ground.</li> </ul> <p>Go to Step 8.</p> |
|      | <p>No</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <p>Go to the next step.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |



| Step | Inspection                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |     | Action                                                                                                                                                                                                                   |
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| 7    | <b>INSPECT PASSENGER-SIDE PRE-TENSIONER SEAT BELT</b> <ul style="list-style-type: none"> <li>• Switch the ignition off.</li> <li>• Disconnect the negative battery terminal and wait for 1 min or more. (See <b>NEGATIVE BATTERY TERMINAL DISCONNECTION/CONNECTION.</b>)</li> <li>• Connect the SAS control module connectors.</li> <li>• Except for the passenger-side rear pre-tensioner seat belt connector, reconnect all disconnected connectors.</li> <li>• Connect the SST (49 N088 0A0) or apply 2 ohms resistance to the passenger-side rear pre-tensioner seat belt connector (wiring harness-side) terminals A-B.</li> <li>• Set the SST (49 N088 0A0) to 2 ohms.</li> <li>• Connect the negative battery terminal. (See <b>NEGATIVE BATTERY TERMINAL DISCONNECTION/CONNECTION.</b>)</li> <li>• Switch the ignition ON (engine off or on).</li> <li>• Clear the DTC for the SAS control module using the M-MDS. (See <b>CLEARING DTC [SAS CONTROL MODULE (TWO-STEP DEPLOYMENT CONTROL SYSTEM - US/CANADA/ISRAEL SPEC.).]</b>)</li> <li>• Perform the DTC inspection for the SAS control module using the M-MDS. (See <b>DTC INSPECTION [SAS CONTROL MODULE (TWO-STEP DEPLOYMENT CONTROL SYSTEM - US/CANADA/ISRAEL SPEC.).]</b>)</li> <li>• Are the same DTCs present?</li> </ul> | Yes | Go to the next step.                                                                                                                                                                                                     |
|      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | No  | Replace the passenger-side rear pre-tensioner seat belt.<br>(See <b>REAR SEAT BELT REMOVAL/INSTALLATION.</b> )<br>Then go to the next step.                                                                              |
| 8    | <b>PERFORM SAS CONTROL MODULE DTC INSPECTION</b> <ul style="list-style-type: none"> <li>• Switch the ignition off.</li> <li>• Disconnect the negative battery terminal and wait for 1 min or more. (See <b>NEGATIVE BATTERY TERMINAL DISCONNECTION/CONNECTION.</b>)</li> <li>• Disconnect the SST (49 N088 0A0) or the 2 ohms resistance.</li> <li>• Connect the passenger-side rear pre-tensioner seat belt connector.</li> <li>• Connect the negative battery terminal. (See <b>NEGATIVE BATTERY TERMINAL DISCONNECTION/CONNECTION.</b>)</li> <li>• Switch the ignition ON (engine off or on).</li> <li>• Clear the DTC for the SAS control module using the M-MDS. (See <b>CLEARING DTC [SAS CONTROL MODULE (TWO-STEP DEPLOYMENT CONTROL SYSTEM - US/CANADA/ISRAEL SPEC.).]</b>)</li> <li>• Perform the DTC inspection for the SAS control module using the M-MDS. (See <b>DTC INSPECTION [SAS CONTROL MODULE (TWO-STEP DEPLOYMENT CONTROL SYSTEM - US/CANADA/ISRAEL SPEC.).]</b>)</li> <li>• Are the same DTCs present?</li> </ul>                                                                                                                                                                                                                                                      | Yes | Repeat the inspection from Step 1.<br>• If the malfunction recurs, replace the SAS control module. (See <b>SAS CONTROL MODULE REMOVAL/INSTALLATION [TWO-STEP DEPLOYMENT CONTROL SYSTEM - US/CANADA/ISRAEL SPEC.).]</b> ) |
|      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | No  | DTC troubleshooting completed.                                                                                                                                                                                           |

| Step | Inspection                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |     | Action                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
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| 3    | <p><b>INSPECT PASSENGER-SIDE PRESSURE SENSOR CIRCUIT FOR OPEN CIRCUIT</b></p> <ul style="list-style-type: none"> <li>• Remove the column cover. (See <b>COLUMN COVER REMOVAL/INSTALLATION</b>.)</li> <li>• Disconnect the clock spring connector. (See <b>CLOCK SPRING REMOVAL/INSTALLATION [TWO-STEP DEPLOYMENT CONTROL SYSTEM - US/CANADA/ISRAEL SPEC.]</b>.)</li> <li>• Remove the glove compartment. (See <b>GLOVE COMPARTMENT REMOVAL/INSTALLATION</b>.)</li> <li>• Disconnect the passenger-side air bag module connectors. (See <b>PASSENGER-SIDE AIR BAG MODULE REMOVAL/INSTALLATION [TWO-STEP DEPLOYMENT CONTROL SYSTEM - US/CANADA/ISRAEL SPEC.]</b>.)</li> <li>• Disconnect the driver and passenger-side front seat connectors. (See <b>FRONT SEAT REMOVAL/INSTALLATION</b>.)</li> <li>• Remove the B-pillar lower trim. (See <b>B-PILLAR LOWER TRIM REMOVAL/INSTALLATION</b>.)</li> <li>• Disconnect the driver and passenger-side front pre-tensioner seat belt connectors. (See <b>FRONT SEAT BELT REMOVAL/INSTALLATION</b>.)</li> <li>• Disconnect the driver and passenger-side lap pre-tensioner seat belt connectors. (See <b>FRONT SEAT BELT REMOVAL/INSTALLATION</b>.)</li> <li>• Disconnect the driver and passenger-side rear pre-tensioner seat belt connectors. (See <b>REAR SEAT BELT REMOVAL/INSTALLATION</b>.)</li> <li>• Remove the headliner. (See <b>HEADLINER REMOVAL/INSTALLATION</b>.)</li> <li>• Disconnect the driver and passenger-side curtain air bag module connectors. (See <b>CURTAIN AIR BAG MODULE REMOVAL/INSTALLATION [TWO-STEP DEPLOYMENT CONTROL SYSTEM - US/CANADA/ISRAEL SPEC.]</b>.)</li> <li>• Disconnect the all SAS control module connectors. (See <b>SAS CONTROL MODULE REMOVAL/INSTALLATION [TWO-STEP DEPLOYMENT CONTROL SYSTEM - US/CANADA/ISRAEL SPEC.]</b>.)</li> <li>• Inspect for continuity between the following terminals (wiring harness-side): <ul style="list-style-type: none"> <li>— Passenger-side pressure sensor terminal A–SAS control module terminal 1B</li> <li>— Passenger-side pressure sensor terminal B–SAS control module terminal 1F</li> </ul> </li> </ul> <p><b>Note</b></p> <ul style="list-style-type: none"> <li>• Inspect for continuity while shaking the wiring harness between the SAS control module and passenger-side pressure sensor.</li> <li>• Is there continuity?</li> </ul> | Yes | Replace the passenger-side pressure sensor, then go to the next step.<br>(See <b>PRESSURE SENSOR REMOVAL/INSTALLATION [TWO-STEP DEPLOYMENT CONTROL SYSTEM - US/CANADA/ISRAEL SPEC.]</b> .)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | No  | Refer to the wiring diagram and verify whether or not there is a common connector between SAS control module terminal and passenger-side pressure sensor terminal.<br><b>If there is a common connector:</b> <ul style="list-style-type: none"> <li>• Determine the malfunctioning part by inspecting the common connector and the terminal for corrosion, damage, or pin disconnection, and the common wiring harness for an open circuit.</li> <li>• Replace the malfunctioning part.</li> </ul> <b>If there is no common connector:</b> <ul style="list-style-type: none"> <li>• Replace the wiring harness which has an open circuit.</li> </ul> Go to the next step. |

DTC U0001:88/U0100:00/U0101:00/U0155:00 [SAS CONTROL MODULE (TWO-STEP DEPLOYMENT CONTROL SYSTEM - US/CANADA/ISRAEL SPEC.)]

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|                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
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| System malfunction location | <ul style="list-style-type: none"><li>• U0001:88: Unit communication error (HS-CAN)</li><li>• U0100:00: Communication error with PCM</li><li>• U0101:00: Communication error with TCM</li><li>• U0155:00: Communication error with instrument cluster</li></ul>                                                                                                                                                                                                                                                                                                                                                                                  |
| Detection condition         | <p><b>U0001:88</b></p> <ul style="list-style-type: none"><li>• The SAS control module detects a CAN communication line (HS-CAN) error.</li></ul> <p><b>U0100:00</b></p> <ul style="list-style-type: none"><li>• The SAS control module could not receive CAN signal from the PCM for 5 s or more.</li></ul> <p><b>U0101:00</b></p> <ul style="list-style-type: none"><li>• The SAS control module could not receive CAN signal from the TCM for 5 s or more.</li></ul> <p><b>U0155:00</b></p> <ul style="list-style-type: none"><li>• The SAS control module could not receive CAN signal from the instrument cluster for 5 s or more.</li></ul> |
| Fail-safe function          | Not applicable                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Possible cause              | <ul style="list-style-type: none"><li>• Malfunction in CAN bus communication line</li><li>• Malfunction in CAN line between the SAS control module and PCM</li><li>• Malfunction in CAN line between the SAS control module and TCM</li><li>• Malfunction in CAN line between the SAS control module and instrument cluster</li></ul>                                                                                                                                                                                                                                                                                                            |
| System wiring diagram       | Not applicable                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

Diagnostic procedure

- Perform the malfunction diagnosis according to the troubleshooting procedure for the multiplex communication system. (See [FOREWORD \[TYPE-A \(SKYACTIV-G 2.5\)\]](#).) (See [FOREWORD \[TYPE-A \(SKYACTIV-G 2.5T, SKYACTIV-D 2.2\)\]](#).)

Diagnostic Procedure

Warning

• Handling the component parts improperly can accidentally operate (deploy) the air bag modules and pre-tensioner seat belts, which may seriously injure you. Read the service warnings/cautions and the workshop manual before handling the air bag system components. (See **AIR BAG SYSTEM SERVICE WARNINGS [TWO-STEP DEPLOYMENT CONTROL SYSTEM - US/CANADA/ISRAEL SPEC.]**.) (See **AIR BAG SYSTEM SERVICE CAUTIONS [TWO-STEP DEPLOYMENT CONTROL SYSTEM - US/CANADA/ISRAEL SPEC.]**.)

| Step | Inspection                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |     | Action                                                                                                                                                                                                                        |
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| 1    | <b>VERIFY IF DRIVER-SIDE SIDE AIR BAG SENSOR IS INSTALLED CORRECTLY</b> <ul style="list-style-type: none"><li>• Switch the ignition off.</li><li>• Disconnect the negative battery terminal and wait for 1 min or more. (See <b>NEGATIVE BATTERY TERMINAL DISCONNECTION/CONNECTION</b>.)</li><li>• Verify the driver-side side air bag sensor installation condition. (See <b>SIDE AIR BAG SENSOR REMOVAL/INSTALLATION [TWO-STEP DEPLOYMENT CONTROL SYSTEM - US/CANADA/ISRAEL SPEC.]</b>.)</li><li>• Is the installation condition normal?</li></ul> | Yes | Go to the next step.                                                                                                                                                                                                          |
|      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | No  | Correctly install the driver-side side air bag sensor and perform the repair completion verification 1. (See <b>SIDE AIR BAG SENSOR REMOVAL/INSTALLATION [TWO-STEP DEPLOYMENT CONTROL SYSTEM - US/CANADA/ISRAEL SPEC.]</b> .) |
| 2    | <b>INSPECT DRIVER-SIDE SIDE AIR BAG SENSOR CONNECTOR</b> <ul style="list-style-type: none"><li>• Disconnect the driver-side side air bag sensor connector. (See <b>SIDE AIR BAG SENSOR REMOVAL/INSTALLATION [TWO-STEP DEPLOYMENT CONTROL SYSTEM - US/CANADA/ISRAEL SPEC.]</b>.)</li><li>• Inspect the driver-side side air bag sensor connector (wiring harness-side). (Corrosion, damage, and disconnected pins)</li><li>• Is there any malfunction of the driver-side side air bag sensor connector (wiring harness-side)?</li></ul>               | Yes | Replace the malfunctioning part, then perform the repair completion verification 1.                                                                                                                                           |
|      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | No  | Go to the next step.                                                                                                                                                                                                          |

| Step | Inspection                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Action                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 5    | <b>INSPECT DRIVER-SIDE SIDE AIR BAG SENSOR CIRCUIT FOR SHORT TO EACH OTHER</b> <ul style="list-style-type: none"> <li>• Driver-side side air bag sensor and SAS control module connectors are disconnected.</li> <li>• Inspect for continuity between the following terminals (wiring harness-side): <ul style="list-style-type: none"> <li>— SAS control module terminal 1J–SAS control module terminal 1M</li> </ul> </li> </ul> <p><b>Note</b></p> <ul style="list-style-type: none"> <li>• <b>Inspect for continuity while shaking the wiring harness between the SAS control module and driver-side side air bag sensor.</b></li> </ul> | <p>Refer to the wiring diagram and verify whether or not there is a common connector between SAS control module terminal and driver-side side air bag sensor terminal.</p> <p><b>If there is a common connector:</b></p> <ul style="list-style-type: none"> <li>• Determine the malfunctioning part by inspecting the common connector and the terminal for corrosion, damage, or pin disconnection, and the common wiring harness for an open circuit.</li> <li>• Replace the malfunctioning part.</li> </ul> <p><b>If there is no common connector:</b></p> <ul style="list-style-type: none"> <li>• Replace the wiring harness which has an open circuit.</li> </ul> <p>Perform the repair completion verification 1.</p>                                                   |
|      | <ul style="list-style-type: none"> <li>• Is there continuity?</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <p>No</p> <p>Go to the next step.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 6    | <b>INSPECT DRIVER-SIDE SIDE AIR BAG SENSOR CIRCUIT FOR SHORT TO OTHER AIR BAG SENSOR CIRCUITS</b> <ul style="list-style-type: none"> <li>• Driver-side side air bag sensor and SAS control module connectors are disconnected.</li> <li>• Refer to the wiring diagram and inspect for continuity between the driver-side side air bag sensor terminal and other air bag sensor terminals (wiring harness-side).</li> </ul> <p><b>Note</b></p> <ul style="list-style-type: none"> <li>• <b>Inspect for continuity while shaking the wiring harness between the SAS control module and driver-side side air bag sensor.</b></li> </ul>         | <p>Refer to the wiring diagram and verify whether or not there is a common connector between SAS control module terminal and driver-side side air bag sensor terminal.</p> <p><b>If there is a common connector:</b></p> <ul style="list-style-type: none"> <li>• Determine the malfunctioning part by inspecting the common connector and the terminal for corrosion, damage, or pin disconnection, and the common wiring harness for a short to other air bag sensor circuits.</li> <li>• Replace the malfunctioning part.</li> </ul> <p><b>If there is no common connector:</b></p> <ul style="list-style-type: none"> <li>• Replace the wiring harness which has a short to other air bag sensor circuits.</li> </ul> <p>Perform the repair completion verification 1.</p> |
|      | <ul style="list-style-type: none"> <li>• Is there continuity?</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <p>No</p> <p>Go to the next step.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

Diagnostic Procedure

Warning

• Handling the component parts improperly can accidentally operate (deploy) the air bag modules and pre-tensioner seat belts, which may seriously injure you. Read the service warnings/cautions and the workshop manual before handling the air bag system components. (See **AIR BAG SYSTEM SERVICE WARNINGS [TWO-STEP DEPLOYMENT CONTROL SYSTEM - US/CANADA/ISRAEL SPEC.]**.) (See **AIR BAG SYSTEM SERVICE CAUTIONS [TWO-STEP DEPLOYMENT CONTROL SYSTEM - US/CANADA/ISRAEL SPEC.]**.)

| Step | Inspection                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |     | Action                                                                                                                                                                                                                           |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1    | <b>VERIFY IF PASSENGER-SIDE SIDE AIR BAG SENSOR IS INSTALLED CORRECTLY</b> <ul style="list-style-type: none"><li>• Switch the ignition off.</li><li>• Disconnect the negative battery terminal and wait for 1 min or more. (See <b>NEGATIVE BATTERY TERMINAL DISCONNECTION/CONNECTION</b>.)</li><li>• Verify the passenger-side side air bag sensor installation condition. (See <b>SIDE AIR BAG SENSOR REMOVAL/INSTALLATION [TWO-STEP DEPLOYMENT CONTROL SYSTEM - US/CANADA/ISRAEL SPEC.]</b>.)</li><li>• Is the installation condition normal?</li></ul> | Yes | Go to the next step.                                                                                                                                                                                                             |
|      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | No  | Correctly install the passenger-side side air bag sensor and perform the repair completion verification 1. (See <b>SIDE AIR BAG SENSOR REMOVAL/INSTALLATION [TWO-STEP DEPLOYMENT CONTROL SYSTEM - US/CANADA/ISRAEL SPEC.]</b> .) |
| 2    | <b>INSPECT PASSENGER-SIDE SIDE AIR BAG SENSOR CONNECTOR</b> <ul style="list-style-type: none"><li>• Disconnect the passenger-side side air bag sensor connector. (See <b>SIDE AIR BAG SENSOR REMOVAL/INSTALLATION [TWO-STEP DEPLOYMENT CONTROL SYSTEM - US/CANADA/ISRAEL SPEC.]</b>.)</li><li>• Inspect the passenger-side side air bag sensor connector (wiring harness-side). (Corrosion, damage, and disconnected pins)</li><li>• Is there any malfunction of the driver-side side air bag sensor connector (wiring harness-side)?</li></ul>            | Yes | Replace the malfunctioning part, then perform the repair completion verification 1.                                                                                                                                              |
|      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | No  | Go to the next step.                                                                                                                                                                                                             |