SUPPLEMENTAL RESTRAINT SYSTEM – AIRBAG SYSTEM

**DESCRIPTION**
The side airbag sensor LH and the rear airbag sensor LH consist of parts including the diagnostic circuit and the lateral deceleration sensor.
When center airbag sensor assembly receives signals from the lateral deceleration sensor, it determines whether or not the SRS should be activated.
DTC B1632/81 and B1633/81 are set when a malfunction is detected in the side airbag sensor LH or rear airbag sensor LH circuit.

<table>
<thead>
<tr>
<th>DTC</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>B1632/81</td>
<td>Lost Communication with Driver Side Rear Airbag Sensor</td>
</tr>
<tr>
<td>B1633/81</td>
<td>Driver Side Rear Airbag Sensor Initialization Incomplete</td>
</tr>
</tbody>
</table>

**WIRING DIAGRAM**
RS-72

**INSPECTION PROCEDURE**
**NOTICE:**
In order to prevent unexpected airbag deployment, disconnect the following connectors before inspecting parts such as wire harnesses, if the application of tester probes to the center airbag sensor assembly connector is necessary.
1. Turn the ignition switch off.
2. Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
3. Disconnect the connector from the center airbag sensor assembly.
4. Disconnect the connectors from the steering pad.
5. Disconnect the connectors from the front passenger airbag assembly.
6. Disconnect the connector from the front seat outer belt assembly LH.
7. Disconnect the connector from the front seat outer belt assembly RH.
   **HINT:**
   Skip the following steps if side airbags and curtain shield airbags are not fitted.
8. Disconnect the connector from the front seat side airbag assembly LH.
9. Disconnect the connector from the front seat side airbag assembly RH.
10. Disconnect the connector from the curtain shield airbag assembly LH.
11. Disconnect the connector from the curtain shield airbag assembly RH.

1. **CHECK CONNECTORS (SIDE AIRBAG SENSOR LH - REAR AIRBAG SENSOR LH)**
   (a) Turn the ignition switch off.
   (b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
   (c) Disconnect the floor wire No.2 connectors from the side airbag sensor LH and the rear airbag sensor LH.
(d) Check the floor wire No.2 connectors and terminals (on the side airbag sensor LH and the rear airbag sensor LH sides) and check that the connectors are properly connected.

Result

<table>
<thead>
<tr>
<th>Result</th>
<th>Proceed to</th>
</tr>
</thead>
<tbody>
<tr>
<td>No problem.</td>
<td>A</td>
</tr>
<tr>
<td>Connectors or terminals incorrect.</td>
<td>B</td>
</tr>
<tr>
<td>Connectors connected improperly.</td>
<td>C</td>
</tr>
</tbody>
</table>

![Diagram]

**HINT:**

DTCs other than DTC B1632/81, B1633/81, B1637/82 and B1638/82 may be output at this time, but they are not related to this check.

**B** REPLACE SIDE AIRBAG SENSOR LH
(a) Turn the ignition switch off.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Check for open in the circuit.
   (1) Using a service wire, connect L5-1 (BCL-) and L5-2 (BCL+) of connector C.
   NOTICE:
   Do not forcibly insert the service wire into the terminals of the connector when connecting.
   (2) Measure the resistance.
   Standard resistance

<table>
<thead>
<tr>
<th>Tester Connection</th>
<th>Condition</th>
<th>Specified Condition</th>
</tr>
</thead>
<tbody>
<tr>
<td>L4-1 (BCL+) - L4-2 (BCL-)</td>
<td>Always</td>
<td>Below 1 Ω</td>
</tr>
</tbody>
</table>

(d) Check for short in the circuit.
   (1) Disconnect the service wire from connector C.
   (2) Measure the resistance.
   Standard resistance

<table>
<thead>
<tr>
<th>Tester Connection</th>
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<th>Specified Condition</th>
</tr>
</thead>
<tbody>
<tr>
<td>L4-1 (BCL+) - L4-2 (BCL-)</td>
<td>Always</td>
<td>1 MΩ or higher</td>
</tr>
</tbody>
</table>

(e) Check for short to ground in the circuit.
   (1) Measure the resistance.
   Standard resistance

<table>
<thead>
<tr>
<th>Tester Connection</th>
<th>Condition</th>
<th>Specified Condition</th>
</tr>
</thead>
<tbody>
<tr>
<td>L4-1 (BCL+) - Body ground</td>
<td>Always</td>
<td>1 MΩ or higher</td>
</tr>
<tr>
<td>L4-2 (BCL-) - Body ground</td>
<td>Always</td>
<td>1 MΩ or higher</td>
</tr>
</tbody>
</table>

(f) Check for short to B+ in the circuit.
   (1) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
   (2) Turn the ignition switch to the on position.
   (3) Measure the voltage.
   Standard voltage

<table>
<thead>
<tr>
<th>Tester Connection</th>
<th>Condition</th>
<th>Specified Condition</th>
</tr>
</thead>
<tbody>
<tr>
<td>L4-1 (BCL+) - Body ground</td>
<td>Ignition switch on</td>
<td>Below 1 V</td>
</tr>
</tbody>
</table>
(4) Turn the ignition switch off.
(5) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.

NG  REPAIR OR REPLACE FLOOR WIRE NO.2

4 CHECK REAR AIRBAG SENSOR LH

(a) Connect the connector to the side airbag sensor LH.
(b) Interchange the rear airbag sensor LH with the rear airbag sensor RH and connect the connectors to them.
(c) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(d) Turn the ignition switch to the on position, and wait for at least 60 seconds.
(e) Clear the DTCs stored in the memory (See page RS-36).
(f) Turn the ignition switch to the lock position.
(g) Turn the ignition switch to the on position, and wait for at least 60 seconds.
(h) Check for DTCs (See page RS-36).

Result

<table>
<thead>
<tr>
<th>Result</th>
<th>Proceed to</th>
</tr>
</thead>
<tbody>
<tr>
<td>DTC B1632/81, B1633/81, B1637/82 and B1638/82 are not output.</td>
<td>A</td>
</tr>
<tr>
<td>DTC B1632/81 or B1633/81 is output.</td>
<td>B</td>
</tr>
<tr>
<td>DTC B1637/82 or B1638/82 is output.</td>
<td>C</td>
</tr>
</tbody>
</table>

HINT:
DTCs other than DTC B1632/81, B1633/81, B1637/82 and B1638/82 may be output at this time, but they are not related to this check.

B  REPLACE CENTER AIRBAG SENSOR ASSEMBLY

C  REPLACE REAR AIRBAG SENSOR LH
A

USE SIMULATION METHOD TO CHECK