### DIAGNOSTIC TROUBLE CODE CHART

If a trouble code is displayed during the DTC check, check the circuit listed for the code in the table below (proceed to the page listed for that circuit).

<table>
<thead>
<tr>
<th>DTC No.</th>
<th>Detection Item</th>
<th>Trouble Area</th>
<th>See page</th>
</tr>
</thead>
</table>
| B1771   | Passenger Side Buckle Switch Circuit Malfunction | 1. No. 1 seat wire  
2. Front seat inner belt assembly (Buckle switch RH)  
3. Occupant classification ECU | RS-259 |
| B1780   | Front Occupant Classification Sensor LH Circuit Malfunction | 1. No. 1 seat wire  
2. Front seat assembly RH (Front occupant classification sensor LH)  
3. Occupant classification ECU | RS-265 |
| B1781   | Front Occupant Classification Sensor RH Circuit Malfunction | 1. No. 1 seat wire  
2. Front seat assembly RH (Front occupant classification sensor RH)  
3. Occupant classification ECU | RS-272 |
| B1782   | Rear Occupant Classification Sensor LH Circuit Malfunction | 1. No. 1 seat wire  
2. Front seat assembly RH (Rear occupant classification sensor LH)  
3. Occupant classification ECU | RS-279 |
| B1783   | Rear Occupant Classification Sensor RH Circuit Malfunction | 1. No. 1 seat wire  
2. Front seat assembly RH (Front occupant classification sensor RH)  
3. Occupant classification ECU | RS-286 |
| B1785   | Front Occupant Classification Sensor LH Collision Detection | 1. Front seat assembly RH (Front occupant classification sensor LH)  
2. Occupant classification ECU | RS-293 |
| B1786   | Front Occupant Classification Sensor RH Collision Detection | 1. Front seat assembly RH (Front occupant classification sensor RH)  
2. Occupant classification ECU | RS-297 |
| B1787   | Rear Occupant Classification Sensor LH Collision Detection | 1. Front seat assembly RH (Rear occupant classification sensor LH)  
2. Occupant classification ECU | RS-301 |
| B1788   | Rear Occupant Classification Sensor RH Collision Detection | 1. Front seat assembly RH (Rear occupant classification sensor RH)  
2. Occupant classification ECU | RS-305 |
| B1790   | Center Airbag Sensor Assembly Communication Circuit Malfunction | 1. No. 1 seat wire  
2. Floor wire  
3. Occupant classification ECU  
4. Center airbag sensor assembly | RS-309 |
| B1793   | Occupant Classification Sensor Power Supply Circuit Malfunction | 1. No. 1 seat wire  
2. Front seat assembly RH (Occupant classification sensors)  
3. Occupant classification ECU | RS-319 |
| B1794   | Open in Occupant Classification ECU Battery Positive Line | 1. Wire harness  
2. Occupant classification ECU | RS-327 |
| B1795   | Occupant Classification ECU Malfunction | 1. Occupant classification ECU | RS-332 |
| B1796   | Sleep Operation Failure of Occupant Classification ECU | 1. Occupant classification ECU | RS-334 |
**DESCRIPTION**

The passenger side buckle switch circuit consists of the occupant classification ECU and the front seat inner belt assembly RH.

DTC B1771 is recorded when a malfunction is detected in the passenger side buckle switch circuit. Troubleshoot DTC B1771 first when DTCs B1771 and B1795 are output simultaneously.

<table>
<thead>
<tr>
<th>DTC No.</th>
<th>DTC Detecting Condition</th>
<th>Trouble Area</th>
</tr>
</thead>
</table>
| B1771   | • Occupant classification ECU detects line short circuit signal, open circuit signal, short circuit to ground signal or short circuit to B+ signal in the passenger side buckle switch circuit for 2 seconds  
• Passenger side buckle switch malfunction  
• Occupant classification ECU malfunction | • No. 1 seat wire  
• Front seat inner belt assembly RH (Buckle switch RH)  
• Occupant classification ECU |

**WIRING DIAGRAM**

[Diagram showing the wiring connections for DTC B1771.]
INSPECTION PROCEDURE

HINT:
- If troubleshooting (wire harness inspection) is difficult to perform, remove the front passenger seat installation bolts to see the under surface of the seat cushion.
- In the above case, hold the seat so that it does not tip over. Holding the seat for a long period of time may cause a problem, such as seat rail deformation. Hold the seat up only for as long as necessary.

1 CHECK DTC

   (a) Turn the ignition switch to the on position.
   (b) Clear the DTCs stored in the memory (See page RS-254).
      HINT:
      First clear DTCs stored in the occupant classification ECU and then in the center airbag sensor assembly.
   (c) Turn the ignition switch to the lock position.
   (d) Turn the ignition switch to the on position.
   (e) Check the DTCs (See page RS-254).
      OK:
      DTC B1771 is not output.
      HINT:
      Codes other than DTC B1771 may be output at this time, but they are not related to this check.

   OK  USE SIMULATION METHOD TO CHECK

          NG

2 CHECK CONNECTION OF CONNECTORS

   (a) Turn the ignition switch to the lock position.
   (b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
   (c) Check that the connectors are properly connected to the occupant classification ECU and the front seat inner belt assembly RH.
      OK:
      The connectors are properly connected.

   NG  CONNECT CONNECTORS

          OK
3 CHECK NO. 1 SEAT WIRE (TO B+)

(a) Disconnect the connectors from the occupant classification ECU and the front seat inner belt assembly RH.
(b) Connect the negative (-) terminal cable to the battery.
(c) Turn the ignition switch to the on position.
(d) Measure the voltage.

Standard voltage

<table>
<thead>
<tr>
<th>Tester connection</th>
<th>Condition</th>
<th>Specified condition</th>
</tr>
</thead>
<tbody>
<tr>
<td>Q4-9 (BSW) - Body ground</td>
<td>Ignition switch on</td>
<td>Below 1 V</td>
</tr>
<tr>
<td>Q4-5 (BGND) - Body ground</td>
<td>Ignition switch on</td>
<td>Below 1 V</td>
</tr>
</tbody>
</table>

NG → REPAIR OR REPLACE NO. 1 SEAT WIRE

OK

4 CHECK NO. 1 SEAT WIRE (FOR OPEN)

(a) Turn the ignition switch to the lock position.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Using a service wire, connect Q3-2 and Q3-1 of connector C.

NOTICE:
Do not forcibly insert a service wire into the terminals of the connector when connecting.
(d) Measure the resistance.

Standard resistance

<table>
<thead>
<tr>
<th>Tester connection</th>
<th>Condition</th>
<th>Specified condition</th>
</tr>
</thead>
<tbody>
<tr>
<td>Q4-9 (BSW) - Q4-5 (BGND)</td>
<td>Always</td>
<td>Below 1 Ω</td>
</tr>
</tbody>
</table>

NG → REPAIR OR REPLACE NO. 1 SEAT WIRE

OK
5 CHECK NO. 1 SEAT WIRE (FOR SHORT)

(a) Disconnect the service wire from connector C.
(b) Measure the resistance.

**Standard resistance**

<table>
<thead>
<tr>
<th>Tester connection</th>
<th>Condition</th>
<th>Specified condition</th>
</tr>
</thead>
<tbody>
<tr>
<td>Q4-9 (BSW) - Q4-5 (BGND)</td>
<td>Always</td>
<td>1 MΩ or higher</td>
</tr>
</tbody>
</table>

**OK**

**NG** REPAIR OR REPLACE NO. 1 SEAT WIRE

6 CHECK NO. 1 SEAT WIRE (TO GROUND)

(a) Measure the resistance.

**Standard resistance**

<table>
<thead>
<tr>
<th>Tester connection</th>
<th>Condition</th>
<th>Specified condition</th>
</tr>
</thead>
<tbody>
<tr>
<td>Q4-9 (BSW) - Body ground</td>
<td>Always</td>
<td>1 MΩ or higher</td>
</tr>
<tr>
<td>Q4-5 (BGND) - Body ground</td>
<td>Always</td>
<td>1 MΩ or higher</td>
</tr>
</tbody>
</table>

**NG** REPAIR OR REPLACE NO. 1 SEAT WIRE

**OK**
7 CHECK DTC

(a) Connect the connectors to the occupant classification ECU and the front seat inner belt assembly RH.
(b) Connect the negative (-) terminal cable to the battery.
(c) Turn the ignition switch to the on position.
(d) Clear the DTCs stored in the memory (See page RS-254).
   HINT:
   First clear DTCs stored in the occupant classification ECU and then in the center airbag sensor assembly.
(e) Turn the ignition switch to the lock position.
(f) Turn the ignition switch to the on position.
(g) Check the DTCs (See page RS-254).
   OK: DTC B1771 is not output.
   HINT:
   Codes other than DTC B1771 may be output at this time, but they are not related to this check.

8 REPLACE FRONT SEAT INNER BELT ASSEMBLY RH

(a) Turn the ignition switch to the lock position.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Replace the front seat inner belt assembly RH (See page SB-31).
   HINT:
   Perform the inspection using parts from a normal vehicle if possible.
(d) Connect the negative (-) terminal cable to the battery.
(e) Turn the ignition switch to the on position.
(f) Clear the DTCs stored in the memory (See page RS-254).
   HINT:
   First clear DTCs stored in the occupant classification ECU and then in the center airbag sensor assembly.
(g) Turn the ignition switch to the lock position.
(h) Turn the ignition switch to the on position.
(i) Check the DTCs (See page RS-254).
   OK: DTC B1771 is not output.
   HINT:
   Codes other than DTC B1771 may be output at this time, but they are not related to this check.

OK ➤ USE SIMULATION METHOD TO CHECK

OK ➤ END
9 REPLACE OCCUPANT CLASSIFICATION ECU

(a) Turn the ignition switch to the lock position.
(b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
(c) Replace the occupant classification ECU (See page RS-412).

10 PERFORM ZERO POINT CALIBRATION

(a) Connect the negative (-) terminal cable to the battery.
(b) Connect the intelligent tester to the DLC3.
(c) Turn the ignition switch to the on position.
(d) Using the intelligent tester, perform the zero point calibration (See page RS-246).
   OK:
   COMPLETED is displayed on the tester.

11 PERFORM SENSITIVITY CHECK

(a) Using the intelligent tester, perform the sensitivity check (See page RS-246).
   (1) Confirm that nothing is placed on the passenger seat.
   (2) Confirm that the beginning sensor reading is within the standard range.
      Standard range:
      -3.2 to 3.2 kg (-7 to 7 lb)
   (3) Place a 30 kg (66.14 lb) weight (e.g. a lead mass) onto the front passenger seat.
   (4) Confirm that the sensitivity is within the standard range.
      Standard range:
      27 to 33 kg (59.52 to 72.75 lb)
   HINT:
   When performing the sensitivity check, use a solid metal weight (the check result may not be accurate if a liquid weight is used).