

|            |              |   |
|------------|--------------|---|
| <b>DTC</b> | <b>B1787</b> | <b>Rear Occupant Classification Sensor LH Collision Detection</b> |
|------------|--------------|---|

**DESCRIPTION**

DTC B1787 is output when the occupant classification ECU receives a collision detection signal sent by the rear occupant classification sensor LH when an accident occurs.  
 DTC B1787 is also output when the front seat assembly RH is subjected to a strong impact, even if an actual accident does not occur.  
 However, when the occupant classification ECU outputs a collision detection signal, even if the vehicle is not in a collision, DTC B1787 can be cleared by performing the zero point calibration and sensitivity check.  
 Therefore, when DTC B1787 is output, first perform the zero point calibration and sensitivity check.

| DTC No. | DTC Detecting Condition  | Trouble Area   |
|---------|--|--|
| B1787   | <ul style="list-style-type: none"> <li>• Front seat assembly RH malfunction</li> <li>• Occupant classification ECU malfunction</li> <li>• Rear occupant classification sensor LH detects large load</li> </ul> | <ul style="list-style-type: none"> <li>• Occupant classification ECU</li> <li>• Front seat assembly RH (Rear occupant classification sensor LH)</li> </ul> |

**RS**

**WIRING DIAGRAM**

Refer to DTC B1782 (See page [RS-279](#)).

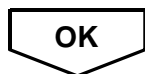
**INSPECTION PROCEDURE**

|          |                                       |
|----------|---------------------------------------|
| <b>1</b> | <b>PERFORM ZERO POINT CALIBRATION</b> |
|----------|---------------------------------------|

- (a) Connect the intelligent tester to the DLC3.
- (b) Turn the ignition switch to the on position.
- (c) Using the intelligent tester, perform the zero point calibration (See page [RS-246](#)).

**OK:**

**COMPLETED is displayed.**



|          |                                  |
|----------|----------------------------------|
| <b>2</b> | <b>PERFORM SENSITIVITY CHECK</b> |
|----------|----------------------------------|

- (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).

NG

Go to step 4

OK

3

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 B1787 is not output.**

HINT:

Codes other than DTC B1787 may be output at this time, but they are not related to this check.

OK

USE SIMULATION METHOD TO CHECK

NG

4

REPLACE FRONT SEAT 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 assembly RH (See page [SE-5](#)).

HINT:

Perform the inspection using parts from a normal vehicle if possible.

NEXT

5

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.**

NG

Go to step 8

OK

**6** 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).

NG

Go to step 8

OK

**7** 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 B1787 is not output.**  
HINT:  
Codes other than DTC B1787 may be output at this time, but they are not related to this check.

OK

USE SIMULATION METHOD TO CHECK

NG

**8** 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.

RS

- (c) Replace the occupant classification ECU (See page [RS-412](#)).

NEXT

**9 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.**

NEXT

RS

**10 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).

NEXT

END