

DTC	B1787	OCCUPANT CLASSIFICATION SENSOR REAR LH COLLISION DETECTION
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CIRCUIT DESCRIPTION

DTC B1787 is output when the occupant classification ECU receives a collision detection signal sent by the occupant classification sensor rear LH if an accident occurs.

DTC B1787 is also output when the seat adjuster frame assy 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 "Zero point calibration" and "Sensitivity check".

Therefore, if DTC B1787 is output, first perform "Zero point calibration" and "Sensitivity check".

DTC No.	DTC Detecting Condition	Trouble Area
B1787	<ul style="list-style-type: none"> • Seat adjuster frame assy malfunction • Occupant classification ECU malfunction • Occupant classification sensor rear LH sensed large load 	<ul style="list-style-type: none"> • Occupant classification ECU • Seat adjuster frame assy (Occupant classification sensor rear LH)

HINT:

- When DTC B1150/23 is detected as a result of troubleshooting for the supplemental restraint system, perform troubleshooting for DTC B1787 of the classification system.
- Use the hand-held tester to check the DTC of the occupant classification ECU, otherwise the DTC cannot be read.

WIRING DIAGRAM

see page [05-1467](#) .

INSPECTION PROCEDURE

1	PERFORM ZERO POINT CALIBRATION
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- (a) Using the hand-held tester, perform "Zero point calibration" (see page [05-1203](#)).

OK:

The "COMPLETED" is displayed.

NG

Go to step 4

OK

2	PERFORM SENSITIVITY CHECK
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- (a) Using the hand-held tester, perform "Sensitivity check" (see page [05-1203](#)).

Standard value: 27 to 33 kg (59.52 to 72.75 lb)

NG

Go to step 4

OK

3 CHECK DTC

- (a) Turn the ignition switch to the ON position.
- (b) Clear the DTCs stored in airbag sensor assy center memory (see page [05-1215](#)).
- (c) Turn the ignition switch to the LOCK position.
- (d) Turn the ignition switch to the ON position.
- (e) Using the hand-held tester, check the DTCs (see page [05-1215](#)).

OK:**DTC B1787 is not output.**

HINT:

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

NG**Go to step 4****OK****END****4 REPLACE SEAT ADJUSTER FRAME ASSY**

- (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 seat adjuster frame assy (see page [72-1 1](#), [72-19](#)).

HINT:

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

5 PERFORM ZERO POINT CALIBRATION

- (a) Using the hand-held tester, perform "Zero point calibration" (see page [05-1203](#)).

OK:**The "COMPLETED" is displayed.****NG****Go to step 8****OK****6 PERFORM SENSITIVITY CHECK**

- (a) Using the hand-held tester, perform "Sensitivity check" (see page [05-1203](#)).

Standard value: 27 to 33 kg (59.52 to 72.75 lb)**NG****Go to step 8****OK**

7 CHECK DTC

- (a) Connect the connectors to the occupant classification ECU and the occupant classification sensor rear LH.
- (b) Connect the negative (-) terminal cable to the battery.
- (c) Turn the ignition switch to the ON position.
- (d) Clear the DTCs stored in memory (see page [05-1215](#)).

HINT:

- First clear DTCs stored in the occupant classification ECU memory and then in the airbag sensor assy center memory.
 - Use the hand-held tester to clear the DTC of the occupant classification ECU, otherwise the DTC cannot be cleared.
- (e) Turn the ignition switch to the LOCK position.
 - (f) Turn the ignition switch to the ON position.
 - (g) Using the hand-held tester, check the DTCs (see page [05-1215](#)).

OK:**DTC B1787 is not output.**

HINT:

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

NG**Go to step 8****OK****END****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.
- (c) Replace the occupant classification ECU (see page [60-64](#)).

9 PERFORM ZERO POINT CALIBRATION

- (a) Using the hand-held tester, perform "Zero point calibration" (see page [05-1203](#)).

OK:**The "COMPLETED" is displayed.****10 PERFORM SENSITIVITY CHECK**

- (a) Using the hand-held tester, perform "Sensitivity check" (see page [05-1203](#)).
- Standard value: 27 to 33 kg (59.52 to 72.75 lb)**

END