

DTC	B1787	Rear Occupant Classification Sensor LH Collision Detection
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DESCRIPTION

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

DTC B1787 is also set when the front seat with adjuster frame assembly RH is subjected to a strong impact, even if an actual accident has not occurred.

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 conducting the zero point calibration and sensitivity check.

Therefore, if DTC B1787 is output, first perform the zero point calibration and sensitivity check.

DTC No.	DTC Detecting Conditions	Trouble Areas
B1787	<ul style="list-style-type: none"> • Front seat with adjuster frame assembly RH malfunction • Occupant classification ECU malfunction • Rear occupant classification sensor LH senses a large load 	<ul style="list-style-type: none"> • Front seat with adjuster frame assembly RH (Rear occupant classification sensor LH) • Occupant classification ECU

HINT:

- When DTC B1650/32 is set as a result of troubleshooting the supplemental restraint system, perform troubleshooting for DTC B1787 of the occupant classification system.
- Use the intelligent tester to check for DTCs of the occupant classification ECU, otherwise the DTCs cannot be read.

WIRING DIAGRAM

(See page [RS-393](#))

1	CHECK DTC
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- (a) Turn the ignition switch to the ON position.
- (b) Clear any DTCs stored in the center airbag sensor assembly (See page [RS-365](#)).
- (c) Turn the ignition switch to the LOCK position.
- (d) Turn the ignition switch to the ON position.
- (e) Using the intelligent tester, check for DTCs of the occupant classification ECU (See page [RS-365](#)).

OK:

DTC B1787 is not output.

HINT:

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

OK	USE SIMULATION METHOD TO CHECK
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2	PERFORM ZERO POINT CALIBRATION
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- (a) Connect the intelligent tester to the DLC3.
- (b) Turn the ignition switch to the ON position.

RS

- (c) Using the intelligent tester, perform the zero point calibration (See page [RS-357](#)).

OK:

COMPLETED is displayed on the tester.

NG 

Go to step 5

OK 

3 PERFORM SENSITIVITY CHECK

- (a) Using the intelligent tester, perform the sensitivity check (See page [RS-357](#)).

Standard :

27 to 33 kg (59.52 to 72.75 lb)

NG 

Go to step 5

OK 

4 CHECK DTC

- (a) Turn the ignition switch to the ON position.
- (b) Clear any DTCs stored in the center airbag sensor assembly (See page [RS-365](#)).
- (c) Turn the ignition switch to the LOCK position.
- (d) Turn the ignition switch to the ON position.
- (e) Using the intelligent tester, check for DTCs of the occupant classification ECU (See page [RS-365](#)).

OK:

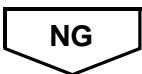
DTC B1787 is not output.

HINT:

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

OK 

USE SIMULATION METHOD TO CHECK

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5 REPLACE FRONT SEAT WITH ADJUSTER FRAME ASSEMBLY RH

RS

- (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 with adjuster frame assembly RH (See page [SE-38](#)).

HINT:

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

NEXT 

6 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-357](#)).

OK:

COMPLETED is displayed on the tester.

NG

Go to step 9

OK

7 PERFORM SENSITIVITY CHECK

- (a) Using the intelligent tester, perform the sensitivity check (See page [RS-357](#)).

Standard:

27 to 33 kg (59.52 to 72.75 lb)

NG

Go to step 9

OK

8 CHECK DTC

- (a) Connect the connectors to the occupant classification ECU and the rear occupant classification sensor LH.
- (b) Connect the negative (-) terminal cable to the battery.
- (c) Turn the ignition switch to the ON position.
- (d) Clear any DTCs stored in the memory (See page [RS-365](#)).

HINT:

- First clear DTCs stored in the occupant classification ECU and then in the center airbag sensor assembly.
 - Use the intelligent tester to clear the DTCs of the occupant classification ECU, otherwise the DTCs cannot be cleared.
- (e) Turn the ignition switch to the LOCK position.
 - (f) Turn the ignition switch to the ON position.
 - (g) Using the intelligent tester, check for DTCs of the occupant classification ECU (See page [RS-365](#)).

OK:

DTC B1787 is not output.

HINT:

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

OK

USE SIMULATION METHOD TO CHECK

NG

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-631](#)).

NEXT

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-3571](#)).

OK:

COMPLETED is displayed on the tester.

NEXT

11 PERFORM SENSITIVITY CHECK

- (a) Using the intelligent tester, perform the sensitivity check (See page [RS-357](#)).

Standard:

27 to 33 kg (59.52 to 72.75 lb)

NEXT

USE SIMULATION METHOD TO CHECK