DTC	B1786	Front Occupant Classification Sensor RH Collision Detection

DESCRIPTION

DTC B1786 is set when the occupant classification ECU receives a collision detection signal, which is sent by the front occupant classification sensor RH when an accident occurs.
DTC B1786 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 B1786 can be cleared by conducting the zero point calibration and sensitivity check.
Therefore, if DTC B1786 is set, first perform the zero point calibration and sensitivity check.

DTC No.	DTC Detecting Conditions	Trouble Areas
B1786	• Front seat with adjuster frame assembly RH malfunction • Occupant classification ECU malfunction • Front occupant classification sensor RH senses a large load	• Front seat with adjuster frame assembly RH (Front occupant classification sensor RH) • Occupant classification ECU

HINT:
- When DTC B1650/32 is set as a result of troubleshooting the supplemental restraint system, perform troubleshooting for DTC B1786 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-385)

1	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 B1786 is not output.

HINT:
DTCs other than B1786 may be output at this time, but they are not related to this check.

OK → **USE SIMULATION METHOD TO CHECK**

NG

2	PERFORM ZERO POINT CALIBRATION

(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-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 B1786 is not output.

HINT:
DTCs other than B1786 may be output at this time, but they are not related to this check.

NG → **USE SIMULATION METHOD TO CHECK**

NG

5	REPLACE FRONT SEAT WITH ADJUSTER FRAME 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 with adjuster frame assembly RH (See page SE-38).

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

NEXT

RS

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 front occupant classification sensor RH.
(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 B1786 is not output.

HINT:
DTCs other than B1786 may be output at this time, but they are not related to this check.

OK → **USE SIMULATION METHOD TO CHECK**

NG

RS

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-357).
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

RS