DTC	B1786	OCCUPANT CLASSIFICATION SENSOR FRONT RH COLLISION DETECTION

CIRCUIT DESCRIPTION

DTC B1786 is output when the occupant classification ECU receives a collision detection signal sent by the occupant classification sensor front RH if an accident occurs.
DTC B1786 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 B1786 can be cleared by ”Zero point calibration” and ”Sensitivity check”.
Therefore, if DTC B1786 is output, first perform ”Zero point calibration” and ”Sensitivity check”.

DTC No.	DTC Detecting Condition	Trouble Area
B1786	• Seat adjuster frame assy malfunction • Occupant classification ECU malfunction • Occupant classification sensor front RH senses a large load	• Occupant classification ECU • Seat adjuster frame assy (Occupant classification sensor front RH)

HINT:

- When DTC B1650/32 is detected as a result of troubleshooting for the supplemental restraint system, perform troubleshooting for DTC B1786 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 05−1564.

INSPECTION PROCEDURE

1	PERFORM ZERO POINT CALIBRATION

(a) Connect the negative (−) terminal cable to the battery.
(b) Connect the hand−held tester to the DLC3.
(c) Turn the ignition switch to the ON position.
(d) Using the hand−held tester, perform ”Zero point calibration” (see page 05−1452).
OK:
The ”COMPLETED” is displayed.

NG → **Go to step 4**

OK

2	PERFORM SENSITIVITY CHECK

(a) Using the hand−held tester, perform ”Sensitivity check” (see page 05−1452).
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 memory (see page 05−1464).

HINT:

- First clear DTCs stored in the occupant classification ECU and then in the airbag sensor assy center.
- Use the hand−held tester to clear the DTC of the occupant classification ECU, otherwise the DTC cannot be cleared.

(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 of the occupant classification ECU (see page 05−1464).

OK:

DTC B1786 is not output.

HINT:

Codes other than code B1786 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 72−23, 72−15).

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 hand−held tester to the DLC3.
(c) Turn the ignition switch to the ON position.
(d) Using the hand−held tester, perform ”Zero point calibration” (see page 05−1452).

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 05−1452).
Standard value: 27 to 33 kg (59.52 to 72.75 lb)

NG → **Go to step 8**

OK

7	CHECK DTC

(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) Connect the connectors to the occupant classification ECU and the occupant classification sensor front RH.
(d) Connect the negative (−) terminal cable to the battery.
(e) Turn the ignition switch to the ON position.
(f) Clear the DTCs stored in memory (see page 05−1464).

HINT:

- First clear DTCs stored in the occupant classification ECU and then in the airbag sensor assy center.
- Use the hand−held tester to clear the DTC of the occupant classification ECU, otherwise the DTC cannot be cleared.

(g) Turn the ignition switch to the LOCK position.
(h) Turn the ignition switch to the ON position.
(i) Using the hand−held tester, check the DTCs of the occupant classification ECU (see page 05−1464).
OK:
DTC B1786 is not output.

HINT:
Codes other than code B1786 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 60−72).

NEXT

9	PERFORM ZERO POINT CALIBRATION

(a) Connect the negative (−) terminal cable to the battery.
(b) Connect the hand−held tester to the DLC3.
(c) Turn the ignition switch to the ON position.
(d) Using the hand−held tester, perform ”Zero point calibration” (see page 05−1452).
OK:
The ”COMPLETED” is displayed.

NEXT

10	PERFORM SENSITIVITY CHECK

(a) Using the hand−held tester, perform ”Sensitivity check” (see page 05−1452).
Standard value: 27 to 33 kg (59.52 to 72.75 lb)

NEXT

END