DTC	B1786	Front Occupant Classification Sensor RH Collision Detection

DESCRIPTION

DTC B1786 is output when the occupant classification ECU receives a collision detection signal sent by the front occupant classification sensor RH when an accident occurs.

DTC B1786 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 B1786 can be cleared by performing the zero point calibration and sensitivity check.

Therefore, when DTC B1786 is output, first perform the zero point calibration and sensitivity check.

DTC No.	DTC Detection Condition	Trouble Area
B1786	When one of following conditions is met: • Front seat RH malfunction • Occupant classification ECU malfunction • Front occupant classification sensor RH detects large load	• Occupant classification ECU • Front seat RH (Front occupant classification sensor RH)

WIRING DIAGRAM

Front Occupant Classification Sensor RH

Occupant Classification ECU

SVC2 ———————— SVC2

SIG2 ———————— SIG2

SGD2 ———————— SGD2

C128670E10
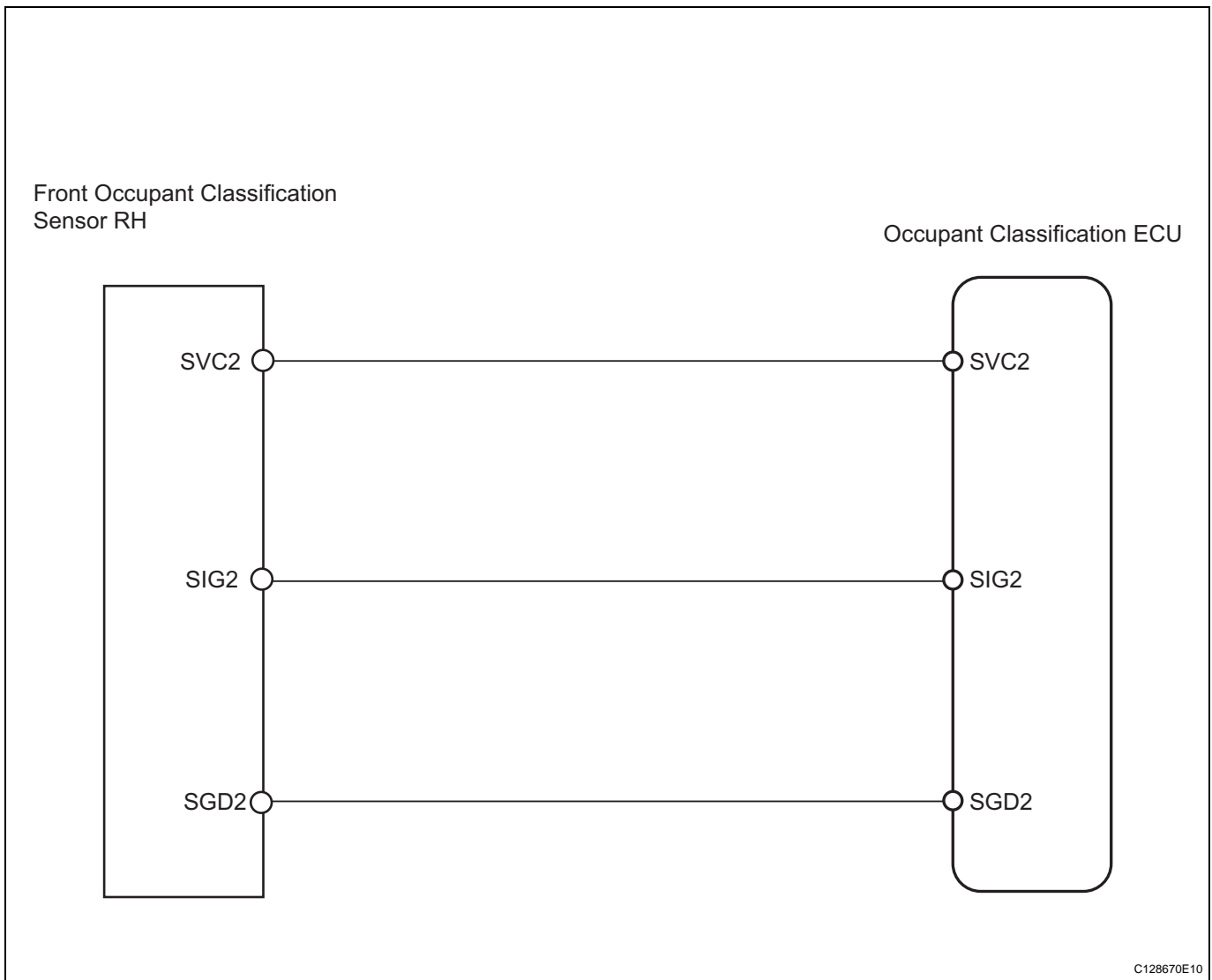
RS

INSPECTION PROCEDURE

1	PERFORM ZERO POINT CALIBRATION

(a) Connect the intelligent tester to the DLC3.
(b) Turn the ignition switch ON.
(c) Using the intelligent tester, perform the zero point calibration (see page RS-241).
OK:
   COMPLETED is displayed.

NG	Go to step 4

OK

2	PERFORM SENSITIVITY CHECK

(a) Using the intelligent tester, perform the sensitivity check (see page RS-241).
Standard value:
   27 to 33 kg (59.52 to 72.75 lb)

NG	Go to step 4

OK

3	CHECK FOR DTC

(a) Turn the ignition switch ON.
(b) Clear the DTCs (see page RS-249).
   HINT:
   First clear DTCs stored in the occupant classification ECU and then in the center airbag sensor.
(c) Turn the ignition switch OFF.
(d) Turn the ignition switch ON.
(e) Check the DTCs (see page RS-249).
   OK:
      DTC B1786 is not output.
   HINT:
   DTCs other than DTC B1786 may be output at this time, but they are not related to this check.

OK	USE SIMULATION METHOD TO CHECK

NG

RS

4	REPLACE FRONT SEAT ASSEMBLY RH

(a) Turn the ignition switch OFF.
(b) Disconnect the cable from the negative (-) battery terminal, and wait for at least 90 seconds.
(c) Replace the front seat RH (see page SE-8).

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

NEXT

5	PERFORM ZERO POINT CALIBRATION

(a) Connect the cable to the negative (-) battery terminal, and wait for at least 2 seconds.
(b) Connect the intelligent tester to the DLC3.
(c) Turn the ignition switch ON.
(d) Using the intelligent tester, perform the zero point calibration (see page RS-241).
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-241).
Standard value:
   27 to 33 kg (59.52 to 72.75 lb)

NG > **Go to step 8**

OK

RS

7	CHECK FOR DTC

(a) Turn the ignition switch ON.
(b) Clear the DTCs (see page RS-249).
HINT:
First clear DTCs stored in the occupant classification ECU and then in the center airbag sensor.
(c) Turn the ignition switch OFF.
(d) Turn the ignition switch ON.
(e) Check the DTCs (see page RS-249).
OK:
   DTC B1786 is not output.
HINT:
DTCs other than DTC B1786 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 OFF.
(b) Disconnect the cable from the negative (-) battery terminal, and wait for at least 90 seconds.
(c) Replace the occupant classification ECU (see page RS-392).

NEXT

9	PERFORM ZERO POINT CALIBRATION

(a) Connect the cable to the negative (-) battery terminal, and wait for at least 2 seconds.
(b) Connect the intelligent tester to the DLC3.
(c) Turn the ignition switch ON.
(d) Using the intelligent tester, perform the zero point calibration (see page RS-241).
OK:
   COMPLETED is displayed.

NEXT

10	PERFORM SENSITIVITY CHECK

(a) Using the intelligent tester, perform the sensitivity check (see page RS-241).
Standard value:
   27 to 33 kg (59.52 to 72.75 lb)

RS

NEXT

END