

DTC

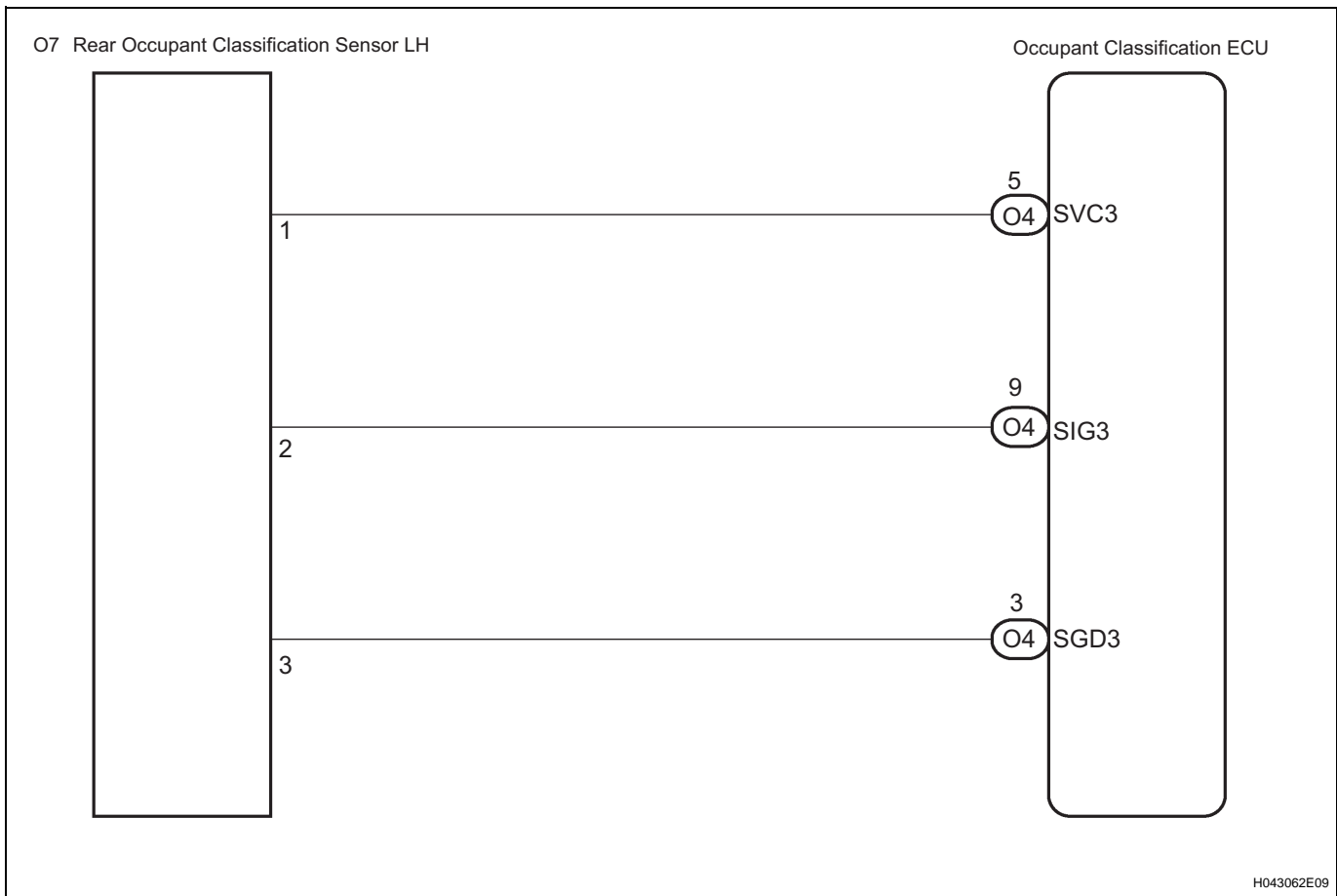
B1782

Rear Occupant Classification Sensor LH Circuit Malfunction**DESCRIPTION**

The rear occupant classification sensor LH circuit consists of the occupant classification ECU and the rear occupant classification sensor LH.

DTC B1782 is recorded when a malfunction is detected in the rear occupant classification sensor LH circuit.

DTC No.	DTC Detecting Condition	Trouble Area
B1782	<ul style="list-style-type: none"> The occupant classification ECU receives a line short circuit signal, an open circuit signal, a short circuit to ground signal or a short circuit to B+ signal in the rear occupant classification sensor LH circuit for 2 seconds. Rear occupant classification sensor LH malfunction Occupant classification ECU malfunction 	<ul style="list-style-type: none"> Front seat assembly RH (Rear occupant classification sensor LH) Occupant classification ECU Front seat wire RH

WIRING DIAGRAM**HINT:**

- If troubleshooting (wire harness inspection) is difficult to perform, remove the front passenger seat installation bolts to see the under surface of the seat cushion.
- In the above case, hold the seat so that it does not fall down. Holding the seat for a long period of time may cause a problem, such as seat rail deformation. Hold the seat only as necessary.

1 CHECK DTC

- (a) Turn the ignition switch to the ON position.
 - (b) Clear the DTCs stored in memory (See page [RS-310](#)).
- HINT:
First clear DTCs stored in the occupant classification ECU and then in the center airbag sensor assembly.
- (c) Turn the ignition switch to the LOCK position.
 - (d) Turn the ignition switch to the ON position.
 - (e) Check the DTCs (See page [RS-310](#)).

OK:**DTC B1782 is not output.**

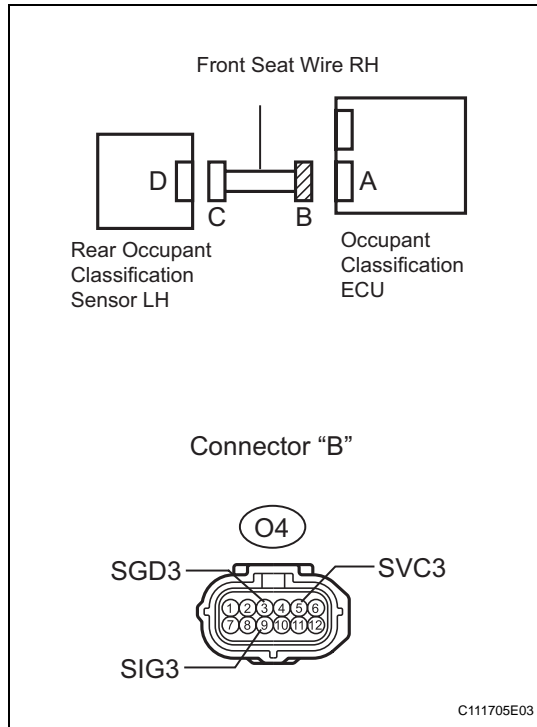
HINT:

Codes other than DTC B1782 may be output at this time, but they are not related to this check.

OK**USE SIMULATION METHOD TO CHECK****NG****2 CHECK CONNECTION OF CONNECTORS**

- (a) Turn the ignition switch to the LOCK position.
- (b) Disconnect the negative (-) terminal cable from the battery.
- (c) Check that the connectors are properly connected to the occupant classification ECU and the rear occupant classification sensor LH.

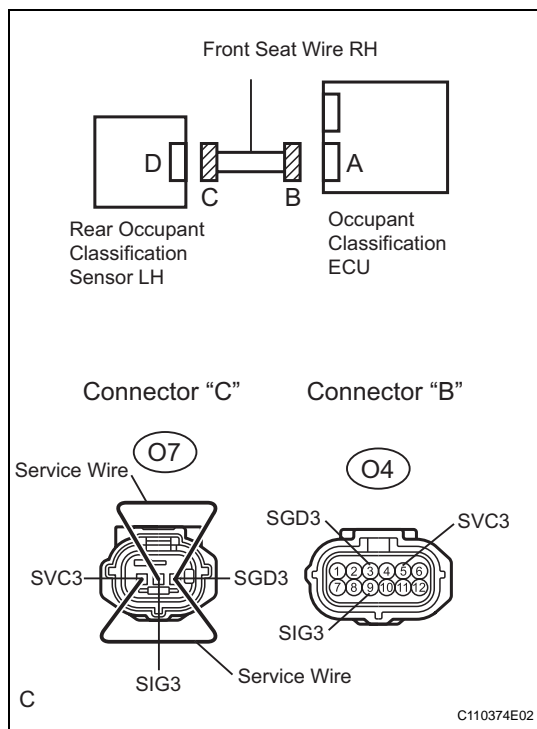
OK:**The connectors are connected.****NG****CONNECT CONNECTORS, THEN GO TO STEP 1****OK****RS**

3 CHECK FRONT SEAT WIRE RH (SHORT TO B+)

- Disconnect the connectors from the occupant classification ECU and the rear occupant classification sensor LH.
- Connect the negative (-) terminal cable to the battery.
- Turn the ignition switch to the ON position.
- Measure the voltage according to the value(s) in the table below.

Voltage

Tester connection	Condition	Specified condition
O4-3 (SGD3) - Body ground	Ignition switch ON	Below 1 V
O4-5 (SVC3) - Body ground	Ignition switch ON	Below 1 V
O4-9 (SIG3) - Body ground	Ignition switch ON	Below 1 V

NG**REPAIR OR REPLACE FRONT SEAT WIRE RH****OK****4 CHECK FRONT SEAT WIRE RH (OPEN)**

- Turn the ignition switch to the LOCK position.
- Disconnect the negative (-) terminal cable from the battery.
- Using a service wire, connect O7-1 (SVC3) and O7-3 (SGD3), and connect O7-2 (SIG3) and O7-3 (SGD3) of connector "C".

NOTICE:**Do not forcibly insert a service wire into the terminals of the connector when connecting.**

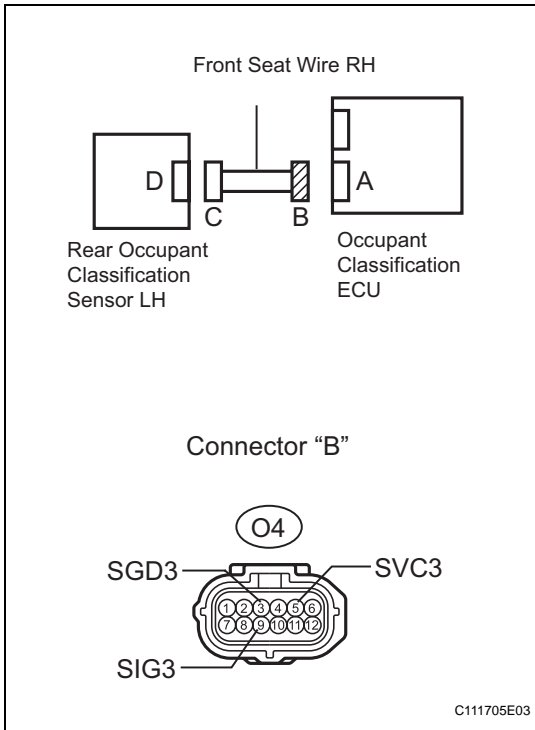
- Measure the resistance according to the value(s) in the table below.

Resistance

Tester connection	Condition	Specified condition
O4-5 (SVC3) - O4-3 (SGD3)	Always	Below 1 Ω
O4-9 (SIG3) - O4-3 (SGD3)	Always	Below 1 Ω

NG**REPAIR OR REPLACE FRONT SEAT WIRE RH****OK**

5 CHECK FRONT SEAT WIRE RH (SHORT)



- (a) Disconnect the service wire from connector "C".
- (b) Measure the resistance according to the value(s) in the table below.

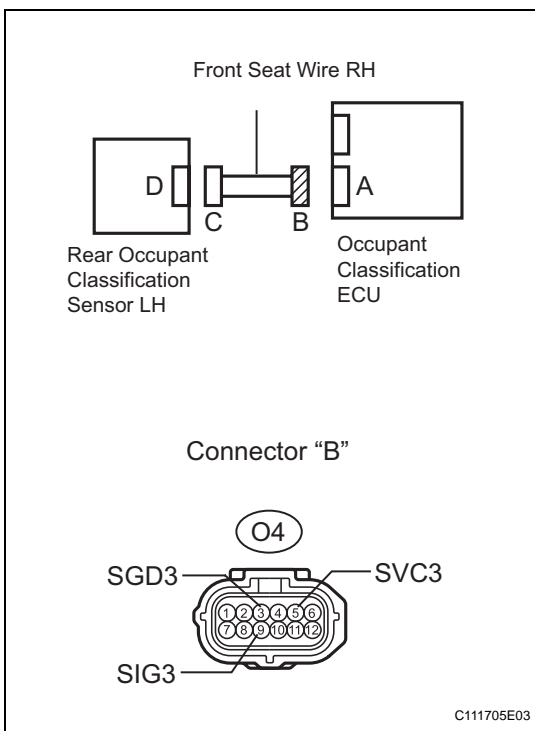
Resistance

Tester connection	Condition	Specified condition
O4-5 (SVC3) - O4-3 (SGD3)	Always	1 MΩ or higher
O4-9 (SIG3) - O4-3 (SGD3)	Always	1 MΩ or higher
O4-5 (SVC3) - O4-9 (SIG3)	Always	1 MΩ or higher

NG REPAIR OR REPLACE FRONT SEAT WIRE RH

OK

6 CHECK FRONT SEAT WIRE RH (SHORT TO GROUND)



- (a) Measure the resistance according to value(s) in the table below.

Resistance

Tester connection	Condition	Specified condition
O4-3 (SGD3) - Body ground	Always	1 MΩ or higher
O4-5 (SVC3) - Body ground	Always	1 MΩ or higher
O4-9 (SIG3) - Body ground	Always	1 MΩ or higher

NG REPAIR OR REPLACE FRONT SEAT WIRE RH

OK

RS

7 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 the DTCs stored in memory (See page [RS-310](#)).

HINT:

First clear DTCs stored in the occupant classification ECU and then in the center airbag sensor assembly.

- (e) Turn the ignition switch to the LOCK position.
- (f) Turn the ignition switch to the ON position.
- (g) Check the DTCs (See page [RS-310](#)).

OK:

DTC B1782 is not output.

HINT:

Codes other than DTC B1782 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 to the LOCK position.
- (b) Disconnect the negative (-) terminal cable from the battery.
- (c) Replace the occupant classification ECU (See page [RS-457](#)).

HINT:

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

NEXT**9 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 "Zero point calibration" (See page [RS-303](#)).

OK:

The "COMPLETED" is displayed.

NG**Go to step 12****OK**

10 PERFORM SENSITIVITY CHECK

- (a) Using the intelligent tester, perform "Sensitivity check" (See page [RS-303](#)).

Standard values:

27 to 33 kg (59.52 to 72.75 lb)

NG

Go to step 12

OK

11 CHECK DTC

- (a) Connect the negative (-) terminal cable to the battery.
(b) Turn the ignition switch to the ON position.
(c) Clear the DTCs stored in memory (See page [RS-310](#)).

HINT:

First clear DTCs stored in the occupant classification ECU and then in the center airbag sensor assembly.

- (d) Turn the ignition switch to the LOCK position.
(e) Turn the ignition switch to the ON position.
(f) Check the DTCs (See page [RS-310](#)).

OK:

DTC B1782 is not output.

HINT:

Codes other than DTC B1782 may be output at this time, but they are not related to this check.

OK

END

NG

12 REPLACE FRONT SEAT ASSEMBLY RH

- (a) Turn the ignition switch to the LOCK position.
(b) Disconnect the negative (-) terminal cable from the battery.
(c) Replace the front seat assembly RH (See page [SE-38](#)).

NEXT

13 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 "Zero point calibration" (See page [RS-303](#)).

OK:

The "COMPLETED" is displayed.

RS

NEXT

14 | **PERFORM SENSITIVITY CHECK**

- (a) Using the intelligent tester, perform "Sensitivity check"
(See page [RS-303](#)).

Standard values:

27 to 33 kg (59.52 to 72.75 lb)

NEXT

RS

END
