

DTC	B1643/81	Driver Side Satellite Sensor Bus Initialization Incomplete
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DESCRIPTION

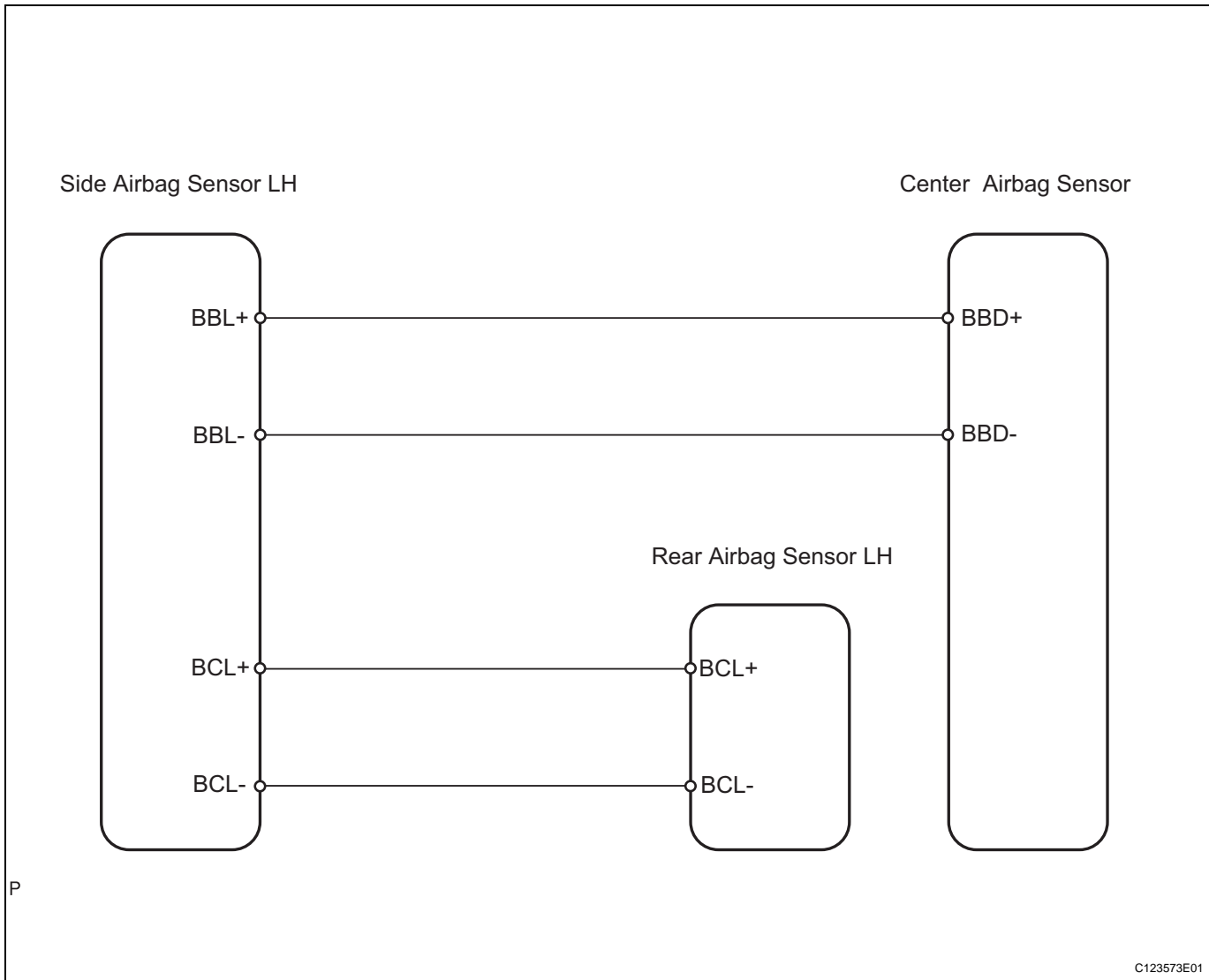
The side airbag sensor LH consists of part including the diagnostic circuit and the lateral deceleration sensor.

When the center airbag sensor receives signals from the lateral deceleration sensor, it determines whether or not the SRS should be activated.

DTC B1643/81 is set when a malfunction is detected in the side airbag sensor LH circuit.

DTC No.	DTC Detection Condition	Trouble Area
B1643/81	When one of following conditions is met: <ul style="list-style-type: none"> • Center airbag sensor detects open circuit signal in side airbag sensor LH circuit for 2 seconds. • Side airbag sensor LH malfunction • Center airbag sensor malfunction 	<ul style="list-style-type: none"> • Floor wire • Side airbag sensor LH • Center airbag sensor

WIRING DIAGRAM

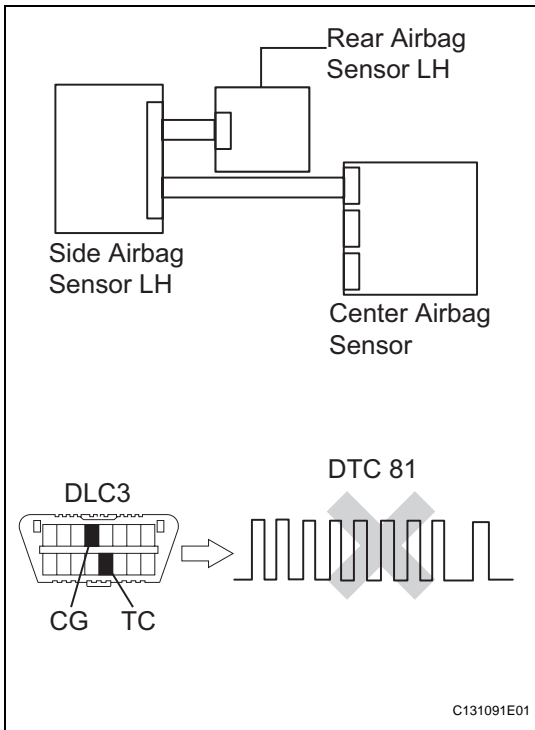


RS

P

INSPECTION PROCEDURE

1 CHECK FOR DTC



- (a) Turn the ignition switch ON, and wait for at least 60 seconds.
- (b) Clear the DTCs (see page RS-49).
- (c) Turn the ignition switch OFF.
- (d) Turn the ignition switch ON, and wait for at least 60 seconds.
- (e) Check the DTCs (see page RS-49).

OK:

DTC B1622/81 is not output.

DTC B1632/81 is not output.

HINT:

DTCs other than DTC B1622/81 and B1632/81 may be output at this time, but they are not related to this check.

NG **GO TO DTC OUTPUT**

OK

2 CHECK CONNECTION OF CONNECTOR

- (a) Turn the ignition switch OFF.
- (b) Disconnect the cable from the negative (-) terminal battery, and wait for at least 90 seconds.
- (c) Check that the connectors are properly connected to the center airbag sensor, rear airbag sensor LH and the side airbag sensor LH.

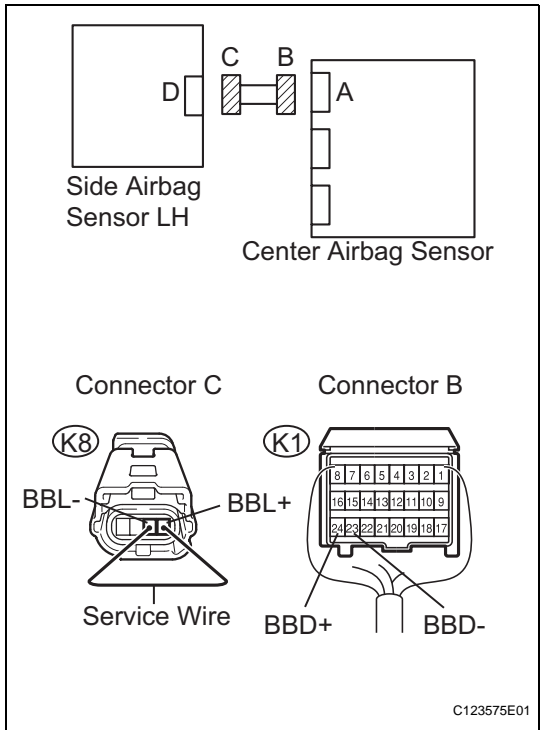
OK:

The connectors are properly connected.

NG **CONNECT CONNECTOR**

OK

3 CHECK FLOOR WIRE (OPEN)



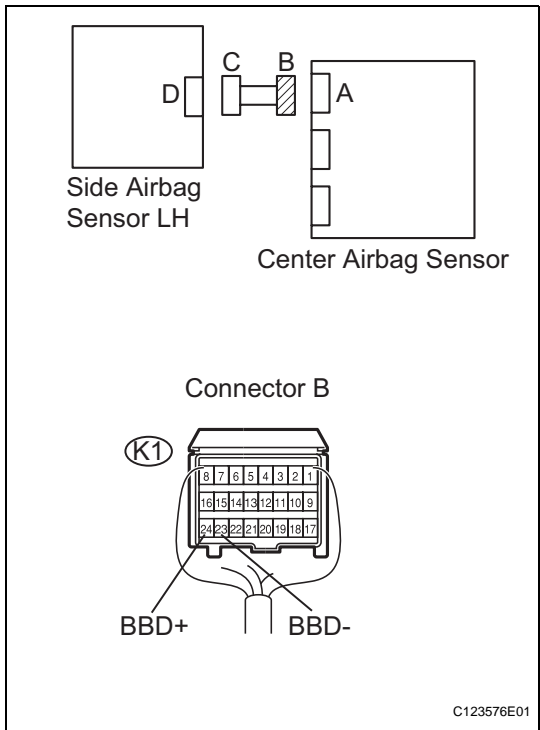
- (a) Disconnect the connectors from the center airbag sensor and the side airbag sensor LH.
 - (b) Using a service wire, connect K8-4 (BBL+) and K8-3 (BBL-) of connector C.
- NOTICE:**
Do not forcibly insert the service wire into the terminals of the connector when connecting.
- (c) Measure the resistance of the wire harness side connector.
- Standard resistance**

Tester Connection	Specified Condition
K1-24 (BBD+) - K1-23 (BBD-)	Below 1 Ω

NG REPAIR OR REPLACE FLOOR WIRE

OK

4 CHECK FLOOR WIRE (SHORT)



- (a) Disconnect the service wire from connector C.
 - (b) Measure the resistance of the wire harness side connector.
- Standard resistance**

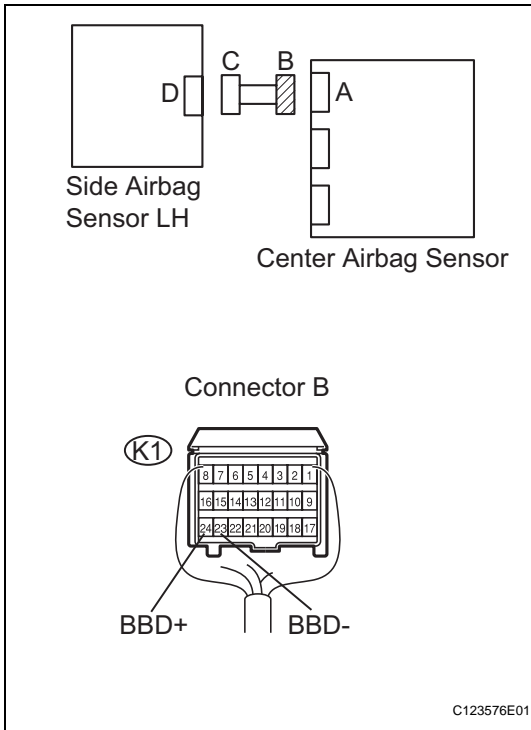
Tester Connection	Specified Condition
K1-24 (BBD+) - K1-23 (BBD-)	1 MΩ or higher

NG REPAIR OR REPLACE FLOOR WIRE

OK

RS

5 CHECK FLOOR WIRE (TO B+)



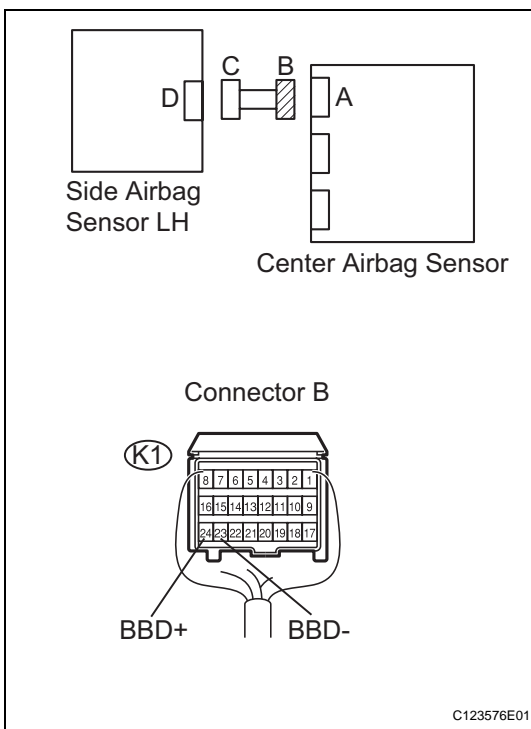
- (a) Connect the cable to the negative (-) battery terminal, and wait for at least 2 seconds.
 - (b) Turn the ignition switch ON.
 - (c) Measure the voltage of the wire harness side connector.
- Standard voltage**

Tester Connection	Specified Condition
K1-24 (BBD+) - Body ground	Below 1 V
K1-23 (BBD-) - Body ground	Below 1 V

NG REPAIR OR REPLACE FLOOR WIRE

OK

6 CHECK FLOOR WIRE (TO GROUND)



- (a) Turn the ignition switch OFF.
 - (b) Disconnect the cable from the negative (-) battery terminal, and wait for at least 90 seconds.
 - (c) Measure the resistance of the wire harness side connector.
- Standard resistance**

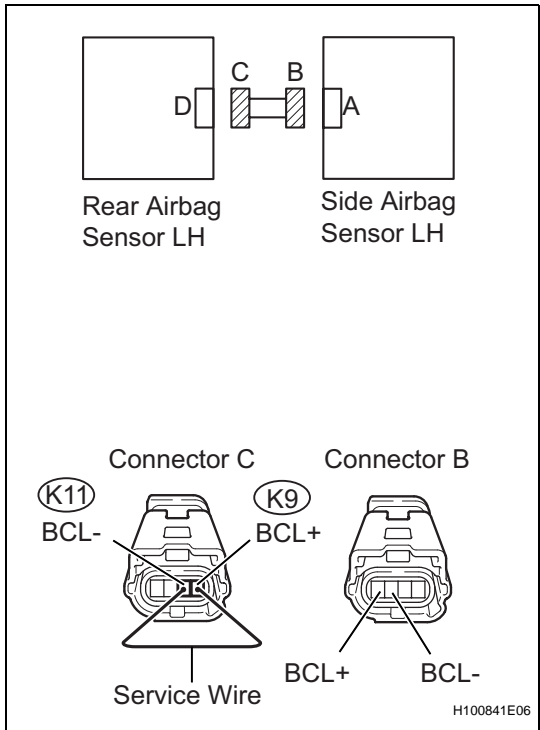
Tester Connection	Specified Condition
K1-24 (BBD+) - Body ground	1 MΩ or higher
K1-23 (BBD-) - Body ground	1 MΩ or higher

NG REPAIR OR REPLACE FLOOR WIRE

OK

RS

7 CHECK FLOOR WIRE (OPEN)



- (a) Disconnect the connectors from the side airbag sensor LH and the rear airbag sensor LH.
- (b) Using a service wire, connect K11-1 (BCL-) and K11-2 (BCL+) of connector C.

NOTICE:

Do not forcibly insert the service wire into the terminals of the connector when connecting.

- (c) Measure the resistance of the wire harness side connector.

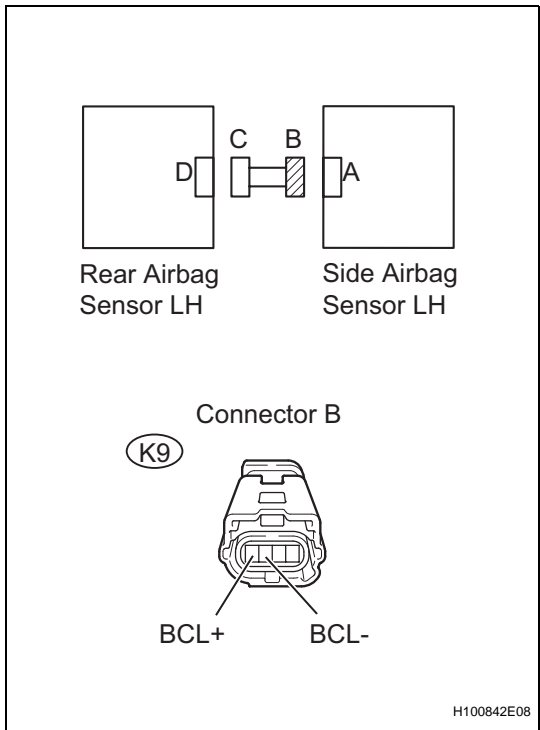
Standard resistance

Tester Connection	Specified Condition
K9-1 (BCL+) - K9-2 (BCL-)	Below 1 Ω

NG REPAIR OR REPLACE FLOOR WIRE

OK

8 CHECK FLOOR WIRE (SHORT)



- (a) Disconnect the service wire from connector C.
- (b) Measure the resistance of the wire harness side connector.

Standard resistance

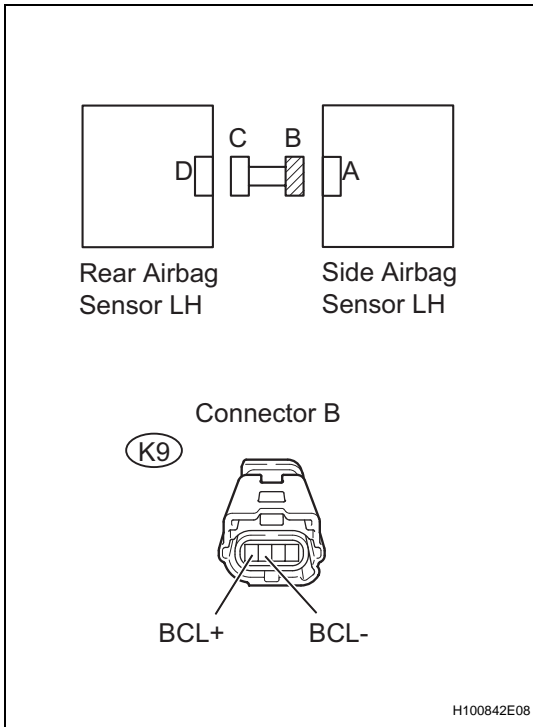
Tester Connection	Specified Condition
K9-1 (BCL+) - K9-2 (BCL-)	1 MΩ or higher

NG REPAIR OR REPLACE FLOOR WIRE

OK

RS

9 CHECK FLOOR WIRE (TO B+)



- (a) Connect the cable to the negative (-) battery terminal, and wait for at least 2 seconds.
- (b) Turn the ignition switch ON.
- (c) Measure the voltage of the wire harness side connector.

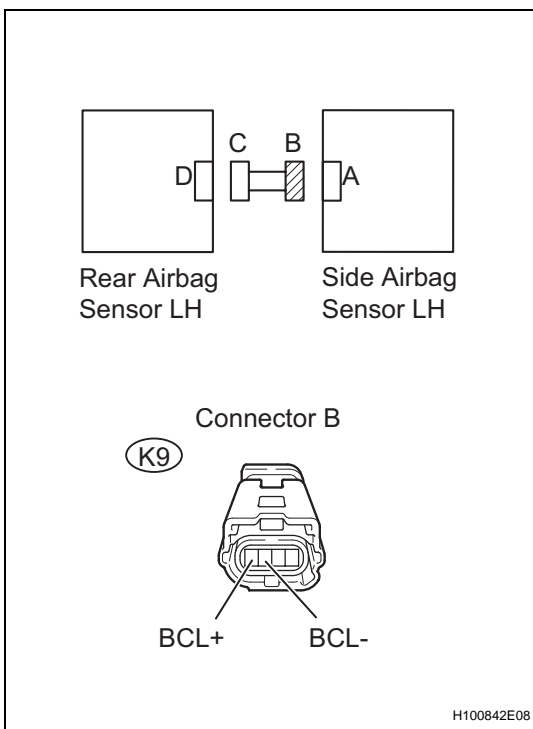
Standard voltage

Tester Connection	Specified Condition
K9-1 (BCL+) - Body ground	Below 1 V
K9-2 (BCL-) - Body ground	Below 1 V

NG REPAIR OR REPLACE FLOOR WIRE

OK

10 CHECK FLOOR WIRE (TO GROUND)



- (a) Turn the ignition switch OFF.
- (b) Disconnect the cable from the negative (-) battery terminal, and wait for at least 90 seconds.
- (c) Measure the resistance of the wire harness side connector.

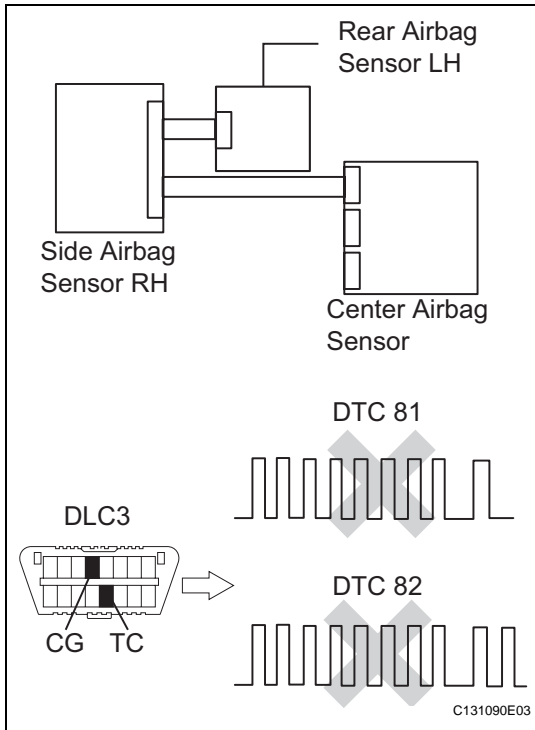
Standard resistance

Tester Connection	Specified Condition
K9-1 (BCL+) - Body ground	1 MΩ or higher
K9-2 (BCL-) - Body ground	1 MΩ or higher

NG REPAIR OR REPLACE FLOOR WIRE

OK

11 CHECK SIDE AIRBAG SENSOR LH



- (a) Connect the connectors to the center airbag sensor .
- (b) Interchange the side airbag sensor LH with the side airbag sensor RH and connect the connectors to them.
- (c) Connect the cable to the negative (-) battery terminal, and wait for at least 2 seconds.
- (d) Turn the ignition switch ON, and wait for at least 60 seconds.
- (e) Clear the DTCs (see page RS-49).
- (f) Turn the ignition switch OFF.
- (g) Turn the ignition switch ON, and wait for at least 60 seconds.
- (h) Check the DTCs (see page RS-49).

Result

Result	Proceed to
DTC B1643/81 and B1648/82 are not output	A
DTC B1643/81 is output	B
DTC B1648/82 is output	C

HINT:

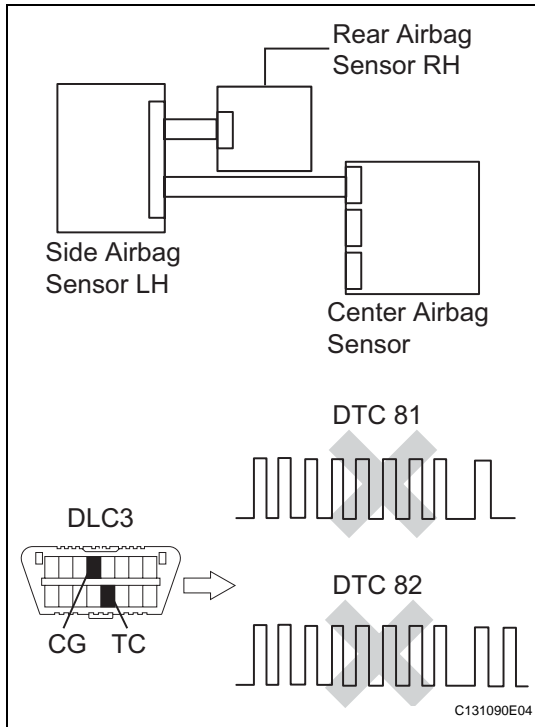
DTCs other than DTC B1643/81 and B1648/82 may be output at this time, but they are not related to this check.

B → **REPLACE CENTER AIRBAG SENSOR ASSEMBLY**

C → **REPLACE SIDE AIRBAG SENSOR LH**

A

12 CHECK REAR AIRBAG SENSOR LH



- (a) Turn the ignition switch OFF.
- (b) Disconnect the cable from the negative (-) terminal battery, and wait for at least 90 seconds.
- (c) Interchange the rear airbag sensor LH with the rear airbag sensor RH and connect the connectors to them.
- (d) Connect the cable to the negative (-) battery terminal, and wait for at least 2 seconds.
- (e) Turn the ignition switch ON, and wait for at least 60 seconds.
- (f) Clear the DTCs (see page RS-49).
- (g) Turn the ignition switch OFF.
- (h) Turn the ignition switch ON, and wait for at least 60 seconds.
- (i) Check the DTCs (see page RS-49).

Result

Result	Proceed to
DTC B1643/81 and B1648/82 are not output	A
DTC B1643/81 is output	B
DTC B1648/82 is output	C

HINT:

DTCs other than DTC B1643/81 and B1648/82 may be output at this time, but they are not related to this check.

- B** → **REPLACE CENTER AIRBAG SENSOR ASSEMBLY**
- C** → **REPLACE REAR AIRBAG SENSOR LH**

A

USE SIMULATION METHOD TO CHECK