

DTC	B1630/23	Driver Side Rear Airbag Sensor Circuit Malfunction
DTC	B1635/24	Front Passenger Side Rear Airbag Sensor Circuit Malfunction

DESCRIPTION

The airbag sensor LH consists of parts such as the safing sensor, the diagnostic circuit and the lateral deceleration sensor. The configuration of the rear airbag sensor RH is the same as that of the LH. When the center airbag sensor assembly receives signals from the lateral deceleration sensor, it determines whether or not the SRS should be activated.

DTC B1630/23 is set when a malfunction is detected in the curtain shield airbag sensor (driver seat side) circuit.

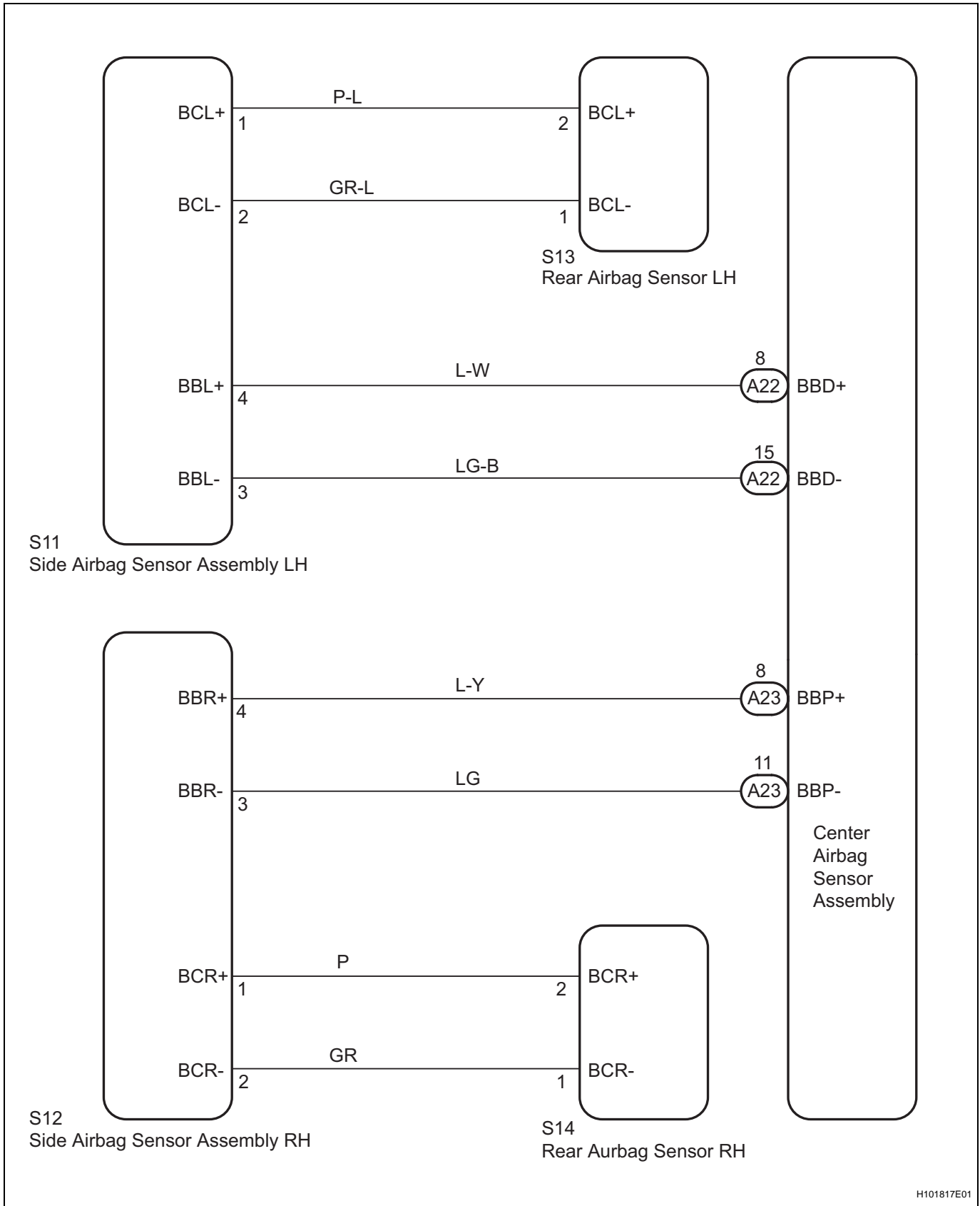
DTC B1635/24 is set when a malfunction is detected in the curtain shield airbag sensor (front passenger seat side) circuit.

DTC No.	DTC Detections Conditions	Trouble Areas
B1630/23	<ul style="list-style-type: none"> The center airbag sensor assembly receives an open circuit signal in the curtain shield airbag sensor (Driver seat side) circuit for 2 seconds Rear airbag sensor LH malfunction Side airbag sensor assembly LH malfunction Center airbag sensor assembly center malfunction 	<ul style="list-style-type: none"> Rear airbag sensor LH Side airbag sensor assembly LH Center center airbag sensor assembly No. 2 floor wire
B1635/24	<ul style="list-style-type: none"> The center airbag sensor assembly receives an open circuit signal in the curtain shield airbag sensor (Front passenger seat side) circuit for 2 seconds Rear airbag sensor RH malfunction Side airbag sensor assembly RH malfunction Center airbag sensor assembly center malfunction 	<ul style="list-style-type: none"> Rear airbag sensor RH Side airbag sensor assembly RH Center center airbag sensor assembly Floor wire

HINT:

Troubleshoot DTC B1620/21 first when the DTC B1620/21 and B1630/23 are output simultaneously.

WIRING DIAGRAM



RS

CAUTION:

In order to prevent unexpected airbag deployment, disconnect the following connectors before inspecting parts such as wire harnesses, if the application of tester probes to the center airbag sensor assembly connector is necessary.

- (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) Disconnect the connectors from the center airbag sensor assembly.
- (d) Disconnect the connectors from the steering pad.
- (e) Disconnect the connector from the front passenger airbag assembly.
- (f) Disconnect the connector from the front seat airbag assembly LH.
- (g) Disconnect the connector from the front seat airbag assembly RH.

HINT:

Skip the following steps if side and curtain shield airbags are not fitted.

- (h) Disconnect the connector from the curtain shield airbag assembly LH.
- (i) Disconnect the connector from the curtain shield airbag assembly RH.
- (j) Disconnect the connector from the front seat outer belt assembly LH.
- (k) Disconnect the connector from the front seat outer belt assembly RH.

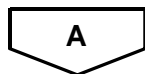
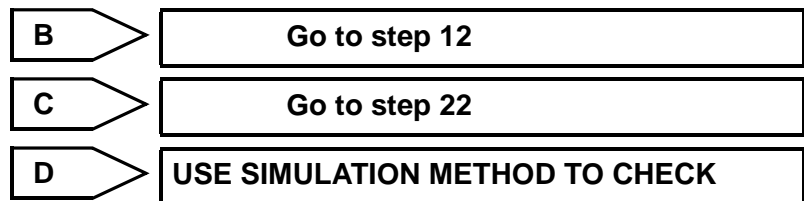
1	CHECK DTC
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- (a) Proceed to the appropriate step according to DTC readings.

- (1) Check the DTC (See page [RS-34](#)).

Result

Result	Proceed to
DTC B1630/23 is output.	A
DTC B1635/24 is output.	B
DTC B1630/23 and B1635/24 are output.	C
Neither DTC B1630/23 nor B1635/24 is output.	D

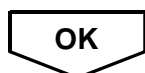


2	CHECK CONNECTOR OF CONNECTORS
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- (a) Turn the ignition switch to the LOCK position.
- (b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
- (c) Check that the connectors are properly connected to the side airbag sensor assembly LH and the rear airbag sensor LH.

OK:

The connectors are properly connected.



3 CHECK CONNECTORS

- (a) Check that the connectors (on the side airbag sensor assembly LH side and rear airbag sensor LH side) are not damaged (See page IN-34).

OK:

The connectors are not deformed or damaged.

NG REPAIR OR REPLACE WIRE HARNESS

OK

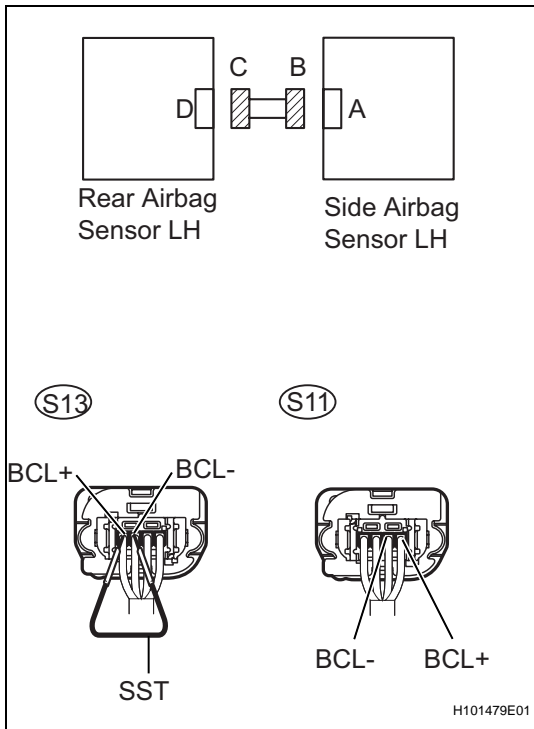
4 CHECK NO. 2 FLOOR WIRE (FOR OPEN)

SST 09843-18040

- (a) Disconnect the connectors from the side airbag sensor assembly LH and the rear airbag sensor LH.
- (b) Using SST, connect S13-2 (BCL+) and S13-1 (BCL-) of connector C.
- (c) Measure the resistance.

Standard resistance

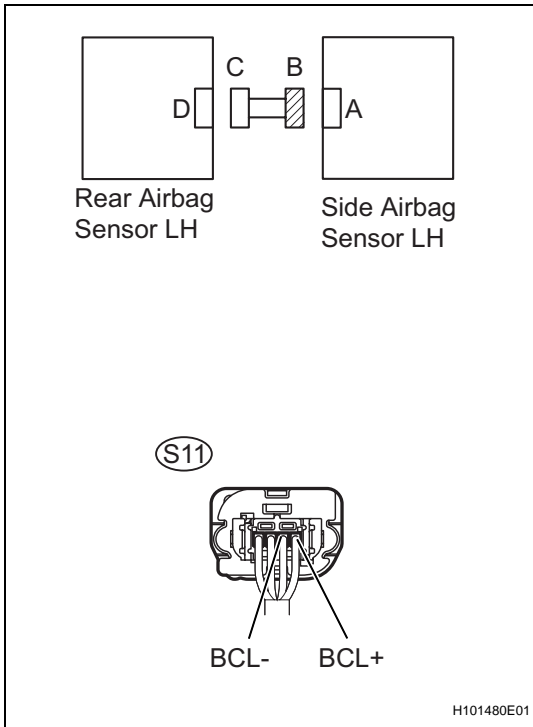
Tester Connection	Condition	Specified Condition
S11-1 (BCL+) - S11-2 (BCL-)	Always	Below 1 Ω



NG REPAIR OR REPLACE NO. 2 FLOOR WIRE

OK

5 CHECK NO. 2 FLOOR WIRE (FOR SHORT)



- (a) Disconnect the SST from connector C.
- (b) Disconnect the connectors from the side airbag sensor assembly LH and rear airbag sensor LH.
- (c) Measure the resistance.

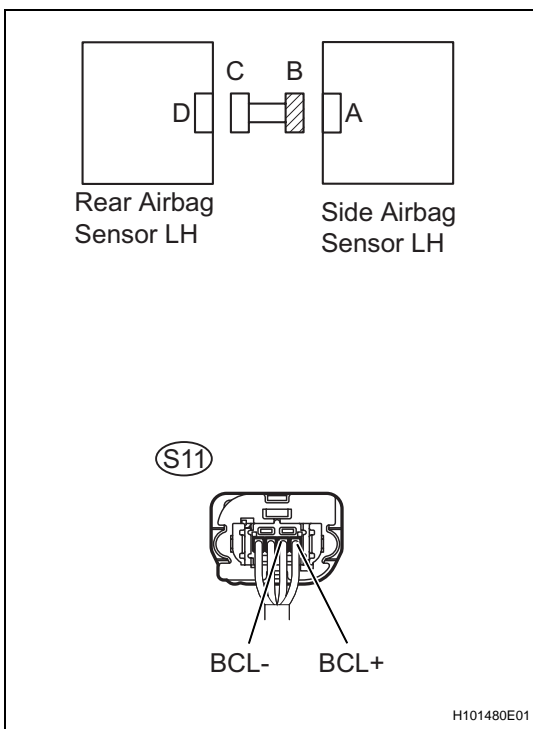
Standard resistance

Tester Connection	Condition	Specified Condition
S11-1 (BCL+) - S11-2 (BCL-)	Always	1 MΩ or Higher

NG REPAIR OR REPLACE NO. 2 FLOOR WIRE

OK

6 CHECK NO. 2 FLOOR WIRE (TO B+)



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

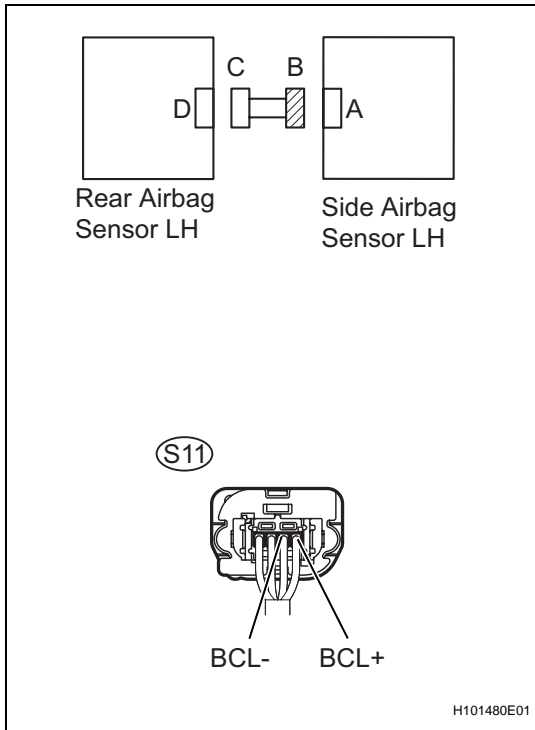
Standard voltage

Tester Connection	Condition	Specified Condition
S11-1 (BCL+) - Body ground	Ignition switch ON	Below 1 V
S11-2 (BCL-) - Body ground	Ignition switch ON	Below 1 V

NG REPAIR OR REPLACE NO. 2 FLOOR WIRE

OK

7 CHECK NO. 2 FLOOR WIRE (TO GROUND)



- (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) Measure the resistance.

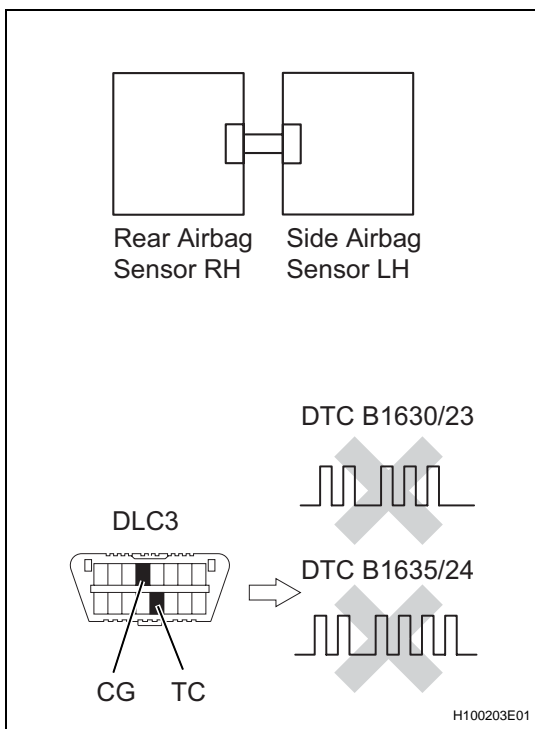
Standard resistance

Tester Connection	Condition	Specified Condition
S11-1 (BCL+) - Body ground	Always	1 MΩ or Higher
S11-2 (BCL-) - Body ground	Always	1 MΩ or Higher

NG REPAIR OR REPLACE NO. 2 FLOOR WIRE

OK

8 CHECK REAR AIRBAG SENSOR LH



- (a) Connect the connector to the side airbag sensor assembly LH.
- (b) Interchange the rear airbag sensor LH with the rear airbag sensor RH and connect the connectors to them.
- (c) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
- (d) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
- (e) Clear any DTCs stored in the memory (See page RS-34).
- (f) Turn the ignition switch to the LOCK position.
- (g) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
- (h) Check for DTCs (See page RS-34).

Result

Result	Proceed to
DTC B1630/23 is output.	A
DTC B1635/24 is output.	B
Neither DTC B1630/23 nor B1635/24 is output.	C

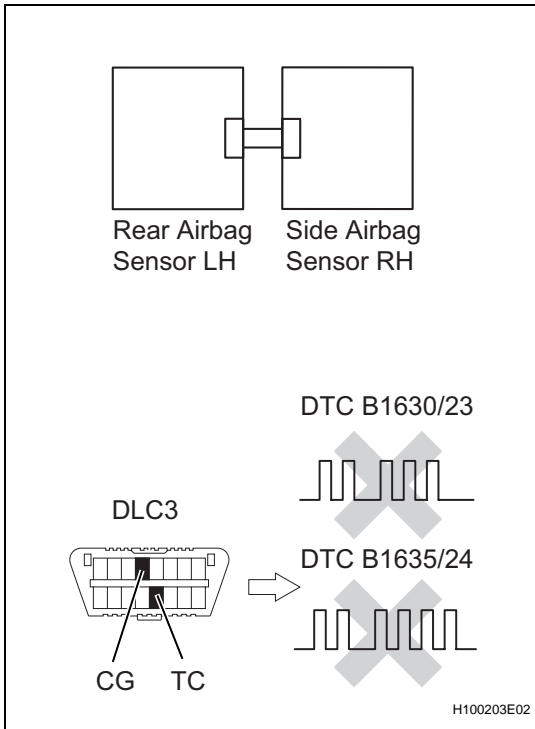
B REPLACE REAR AIRBAG SENSOR LH

C USE SIMULATION METHOD TO CHECK

RS

A

9 CHECK SIDE AIRBAG SENSOR ASSEMBLY LH



- (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) Return the rear airbag sensor LH and RH to their original positions and connect the connectors to them.
- (d) Interchange the side airbag sensor assembly LH with the side airbag sensor assembly RH and connect the connectors to them.
- (e) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
- (f) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
- (g) Clear any DTCs stored in the memory (See page RS-34).
- (h) Turn the ignition switch to the LOCK position.
- (i) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
- (j) Check for DTCs (See page RS-34).

Result

Result	Proceed to
DTC B1630/23 is output.	A
DTC B1635/24 is output.	B
Neither DTC B1630/23 nor B1635/24 is output.	C

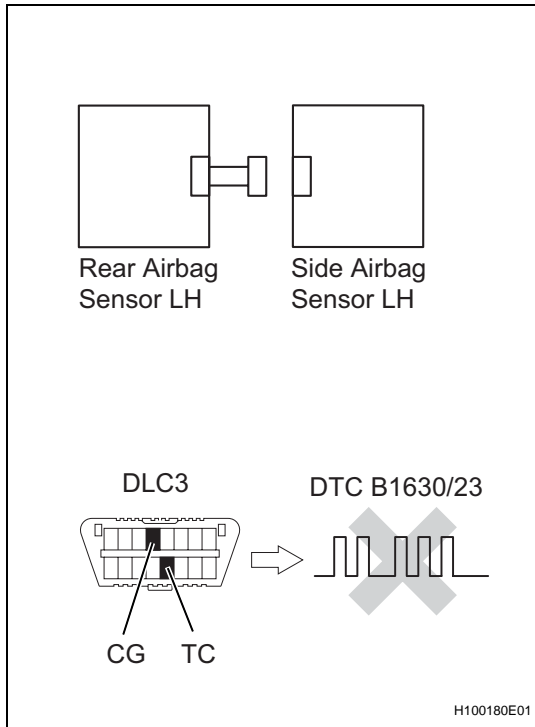
HINT:

DTCs other than B1630/23 and B1635/24 may be output at this time, but they are not related to this check.

B REPLACE SIDE AIRBAG SENSOR ASSEMBLY LH

C USE SIMULATION METHOD TO CHECK

A

10 REPLACE CENTER AIRBAG SENSOR ASSEMBLY

- (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 center airbag sensor assembly (See page [RS-602](#)).

HINT:

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

- (d) Connect the connectors to the center airbag sensor assembly.
- (e) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
- (f) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
- (g) Clear any DTCs stored in the memory (See page [RS-34](#)).
- (h) Turn the ignition switch to the LOCK position.
- (i) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
- (j) Check for DTCs (See page [RS-34](#)).

OK:

DTC B1630/23 is not output.

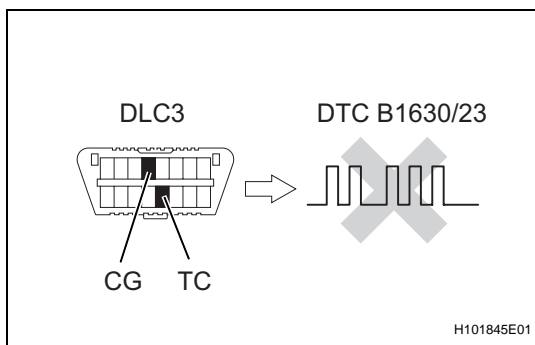
HINT:

DTCs other than B1630/23 may be output at this time, but they are not related to this check.

OK

END

NG

11 CHECK REAR AIRBAG SENSOR LH

- (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 rear airbag sensor LH (See page [RS-613](#)).
- (d) Connect the connectors to the center airbag sensor assembly.
- (e) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
- (f) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
- (g) Clear any DTCs stored in the memory (See page [RS-34](#)).
- (h) Turn the ignition switch to the LOCK position.
- (i) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
- (j) Check for DTCs (See page [RS-34](#)).

OK:

DTC B1630/23 is not output.

RS

HINT:

DTCs other than B1630/23 may be output at this time, but they are not related to this check.

NG

REPLACE SIDE AIRBAG SENSOR ASSEMBLY LH

OK

END

12 CHECK CONNECTION OF CONNECTORS

- (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) Check that the connectors are properly connected to the side airbag sensor assembly RH and the rear airbag sensor RH.

OK:

The connectors are properly connected.

NG

CONNECT CONNECTORS

OK

13 CHECK CONNECTORS

- (a) Check that the connectors (on the side airbag sensor assembly RH side and airbag sensor rear RH side) are not damaged (See page [IN-34](#)).

OK:

The connectors are not deformed or damaged.

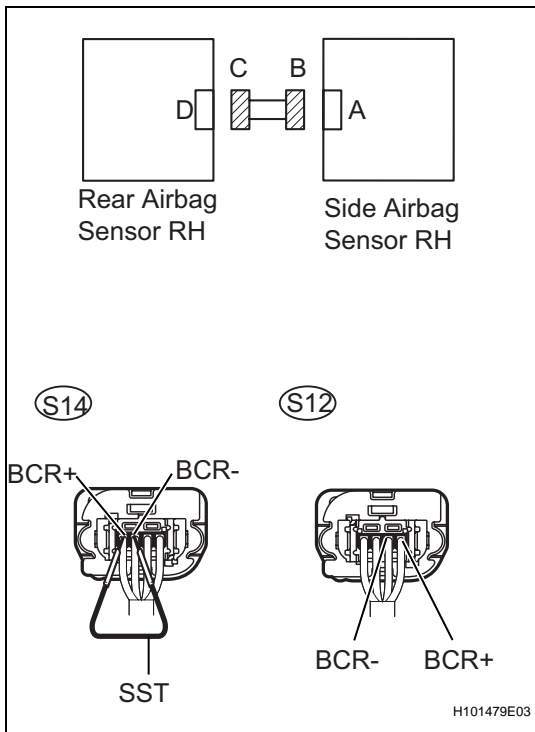
NG

REPAIR OR REPLACE WIRE HARNESS

OK

14 CHECK FLOOR WIRE (FOR OPEN)

SST 09843-18040



- (a) Disconnect the connectors from the side airbag sensor assembly RH and the rear airbag sensor RH.
- (b) Using SST, connect S14-2 (BCR+) and S14-1 (BCR-) of connector C.
- (c) Measure the resistance.

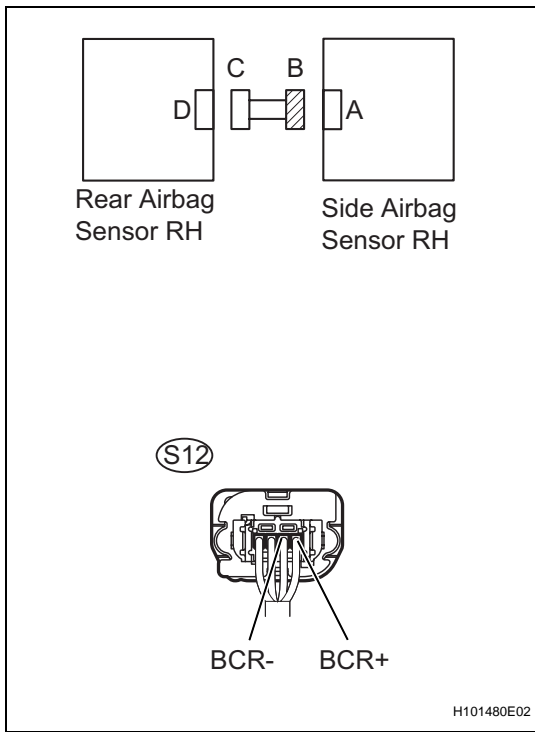
Standard resistance

Tester Connection	Condition	Specified Condition
S12-1 (BCR+) - S12-2 (BCR-)	Always	Below 1 Ω

NG REPAIR OR REPLACE FLOOR WIRE

OK

15 CHECK FLOOR WIRE (FOR SHORT)



- (a) Disconnect the SST from connector C.
- (b) Measure the resistance.

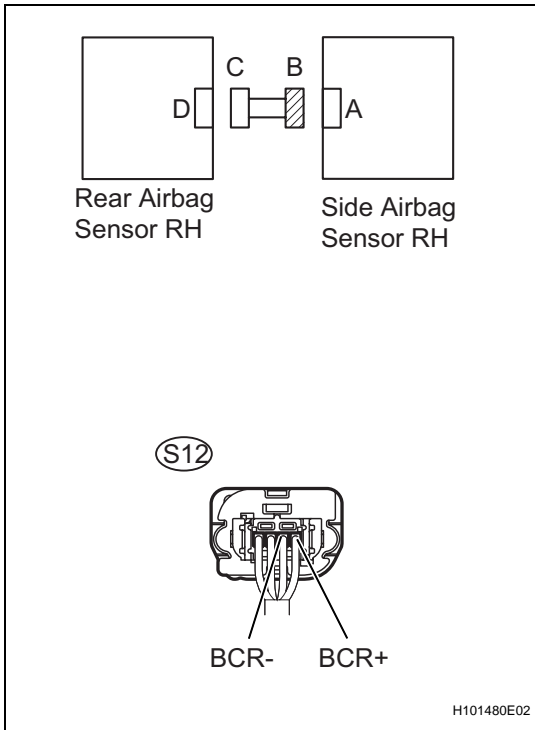
Standard resistance

Tester Connection	Condition	Specified Condition
S12-1 (BCR+) - S12-2 (BCR-)	Always	1 MΩ or Higher

NG REPAIR OR REPLACE FLOOR WIRE

OK

16 CHECK FLOOR WIRE (TO B+)



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

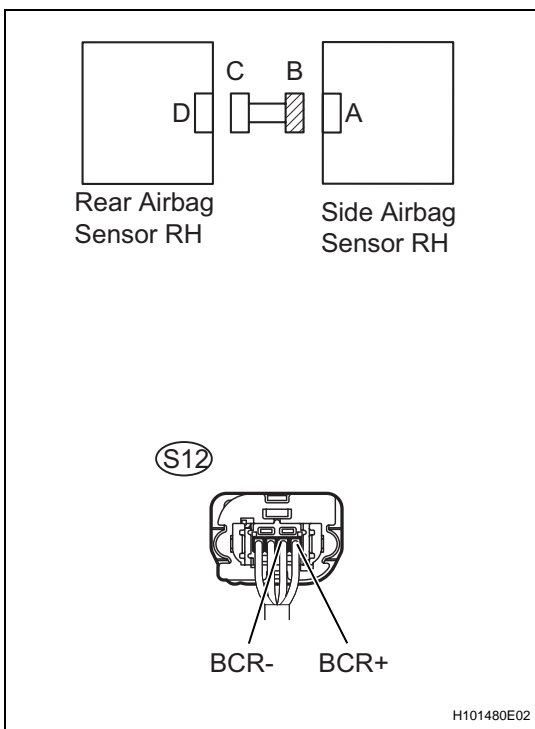
Standard voltage

Tester Connection	Condition	Specified Condition
S12-1 (BCR+) - Body ground	Ignition switch ON	Below 1 V
S12-2 (BCR-) - Body ground	Ignition switch ON	Below 1 V

NG REPAIR OR REPLACE FLOOR WIRE

OK

17 CHECK FLOOR WIRE (TO GROUND)



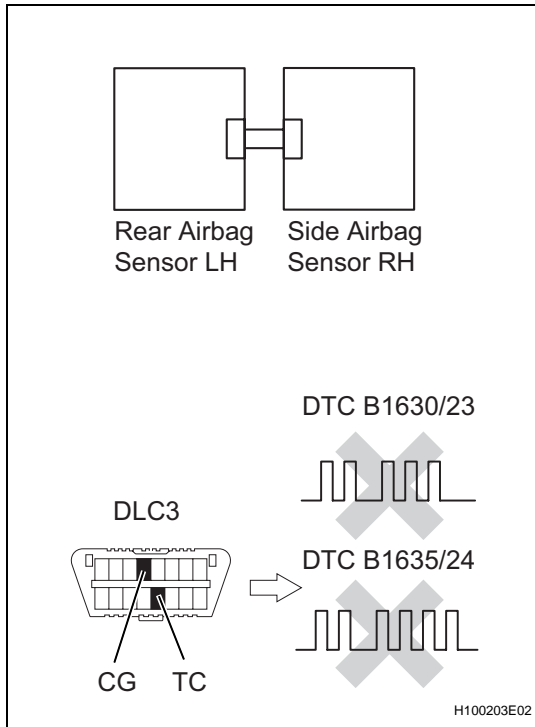
- (a) Turn the ignition switch to the LOCK position.
- (b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
- (c) Measure the resistance.

Standard resistance

Tester Connection	Condition	Specified Condition
S12-1 (BCR+) - Body ground	Always	1 MΩ or Higher
S12-2 (BCR-) - Body ground	Always	1 MΩ or Higher

NG REPAIR OR REPLACE FLOOR WIRE

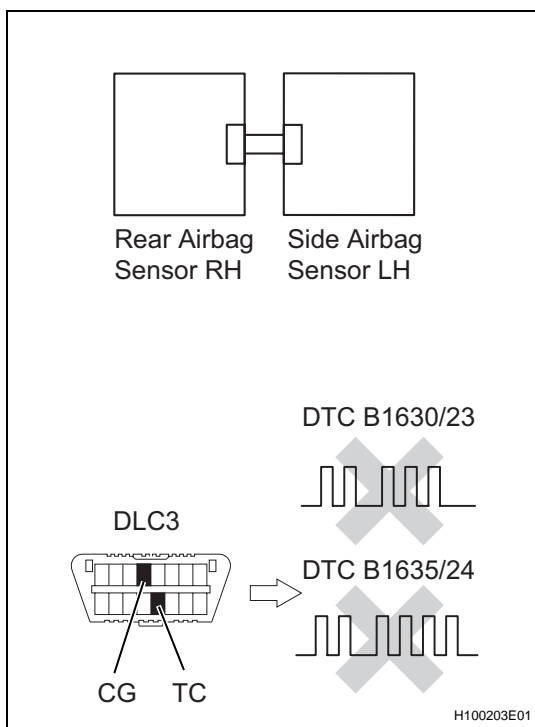
OK

18 CHECK REAR AIRBAG SENSOR RH

- Connect the connector to the side airbag sensor assembly RH.
- Interchange the rear airbag sensor RH with the rear airbag sensor LH and connect the connectors to them.
- Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
- Turn the ignition switch to the ON position, and wait for at least 60 seconds.
- Clear any DTCs stored in the memory (See page [RS-34](#)).
- Turn the ignition switch to the LOCK position.
- Turn the ignition switch to the ON position, and wait for at least 60 seconds.
- Check for DTCs (See page [RS-34](#)).

Result

Result	Proceed to
DTC B1635/24 is output.	A
DTC B1630/23 is output.	B
Neither DTC B1630/23 nor B1635/24 is output.	C

B**REPLACE REAR AIRBAG SENSOR RH****C****USE SIMULATION METHOD TO CHECK****A****19 CHECK SIDE AIRBAG SENSOR ASSEMBLY RH**

- Turn the ignition switch to the LOCK position.
- Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
- Return the rear airbag sensor LH and RH to their original positions and connect the connectors to them.
- Interchange the side airbag sensor assembly RH with the side airbag sensor assembly LH and connect the connectors to them.
- Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
- Turn the ignition switch to the ON position, and wait for at least 60 seconds.
- Clear any DTCs stored in the memory (See page [RS-34](#)).
- Turn the ignition switch to the LOCK position.
- Turn the ignition switch to the ON position, and wait for at least 60 seconds.
- Check for DTCs (See page [RS-34](#)).

Result

Result	Proceed to
DTC B1635/24 is output.	A

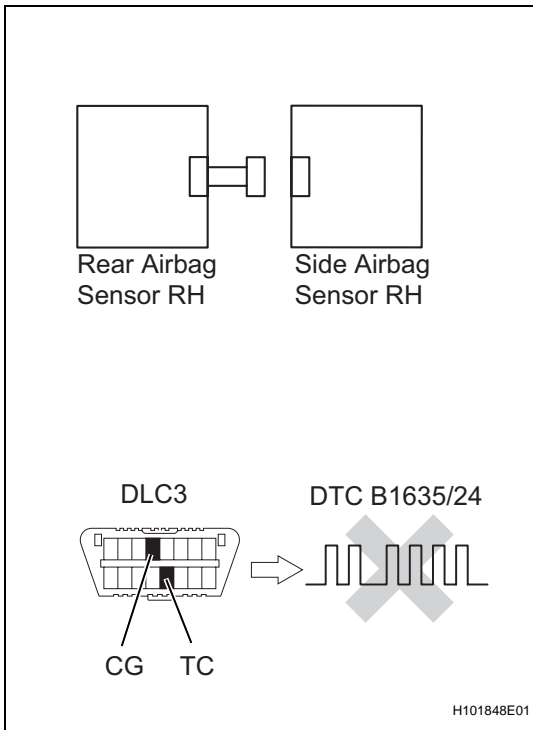
Result	Proceed to
DTC B1630/23 is output.	B
Neither DTC B1630/23 nor B1635/24 is output.	C

B → **REPLACE SIDE AIRBAG SENSOR ASSEMBLY RH**

C → **USE SIMULATION METHOD TO CHECK**

A

20 REPLACE CENTER AIRBAG SENSOR ASSEMBLY



- (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 center airbag sensor assembly (See page [RS-602](#)).

HINT:

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

- (d) Connect the connectors to the center airbag sensor assembly.
- (e) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
- (f) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
- (g) Clear any DTCs stored in the memory (See page [RS-34](#)).
- (h) Turn the ignition switch to the LOCK position.
- (i) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
- (j) Check for DTCs (See page [RS-34](#)).

OK:

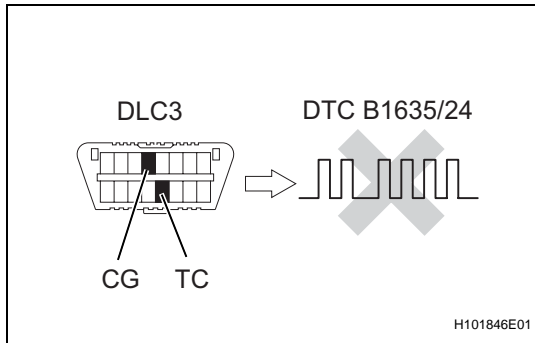
DTC B1635/24 is not output.

HINT:

DTCs other than B1635/24 may be output at this time, but they are not related to this check.

OK → **END**

NG

21 REPLACE REAR AIRBAG SENSOR 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 rear airbag sensor RH (See page [RS-613](#)).
- (d) Connect the connectors to the center airbag sensor assembly.
- (e) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
- (f) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
- (g) Clear any DTCs stored in the memory (See page [RS-34](#)).
- (h) Turn the ignition switch to the LOCK position.
- (i) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
- (j) Check for DTCs (See page [RS-34](#)).

OK:**DTC B1635/24 is not output.****HINT:**

DTCs other than B1635/24 may be output at this time, but they are not related to this check.

NG**REPLACE SIDE AIRBAG SENSOR ASSEMBLY RH****OK****END****22 CHECK CONNECTION OF CONNECTORS**

- (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) Check that the connectors are properly connected to the side airbag sensor assembly LH and the rear airbag sensor LH.
- (d) Check that the connectors are properly connected to the side airbag sensor assembly RH and the rear airbag sensor RH.

OK:**The connectors are properly connected.****NG****CONNECT CONNECTORS****OK**

23 CHECK CONNECTORS

- (a) Check that the connectors (on the side airbag sensor assembly LH side and airbag sensor rear LH side) are not damaged (See page IN-34).
- (b) Check that the connectors (on the side airbag sensor assembly RH side and airbag sensor rear RH side) are not damaged (See page IN-34).

OK:

The connectors are not deformed or damaged.

NG

REPAIR OR REPLACE WIRE HARNESS

OK

24 CHECK NO. 2 FLOOR WIRE (FOR OPEN)

SST 09843-18040

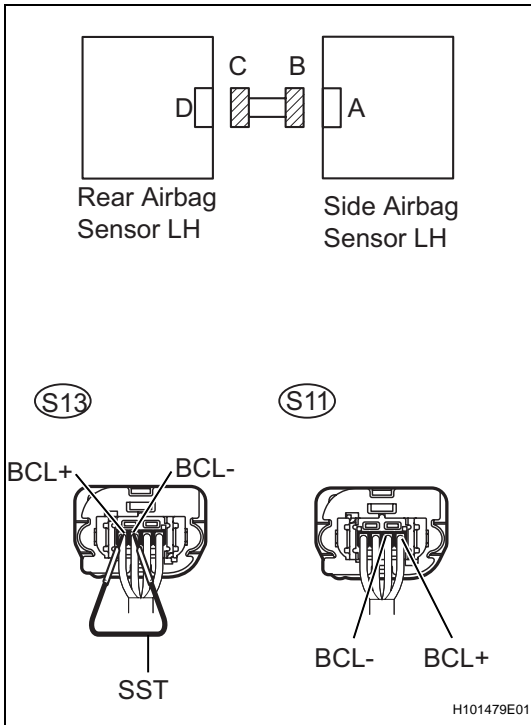
- (a) Disconnect the connectors from the side airbag sensor assembly LH and the rear airbag sensor LH.
- (b) Using SST, connect S13-2 (BCL+) and S13-1 (BCL-) of connector C.
- (c) Measure the resistance.

Standard resistance

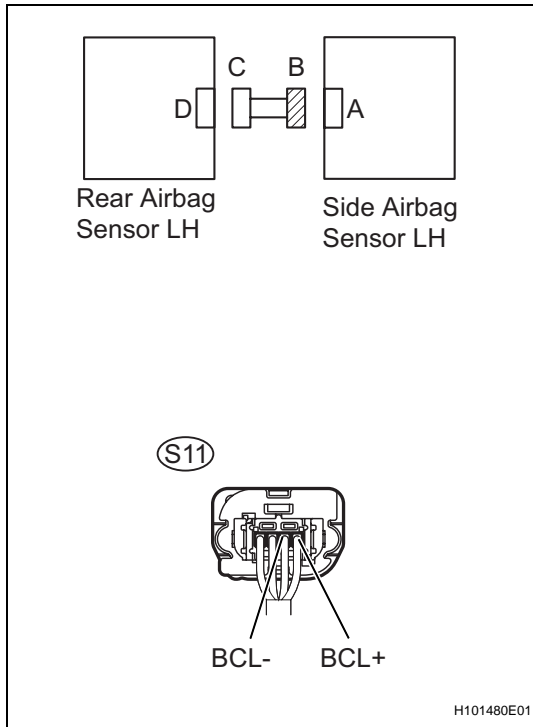
Tester Connection	Condition	Specified Condition
S11-1 (BCL+) - S11-2 (BCL-)	Always	Below 1 Ω

NG

REPAIR OR REPLACE NO. 2 FLOOR WIRE



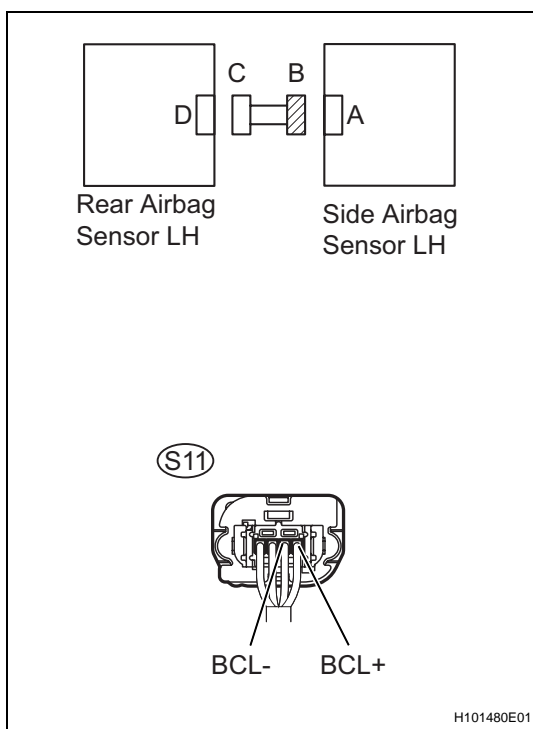
OK

25 CHECK NO. 2 FLOOR WIRE (FOR SHORT)

- Disconnect the SST from connector C.
- Disconnect the connectors from the side airbag sensor assembly LH and rear airbag sensor LH.
- Measure the resistance.

Standard resistance

Tester Connection	Condition	Specified Condition
S11-1 (BCL+) - S11-2 (BCL-)	Always	1 MΩ or Higher

NG**REPAIR OR REPLACE NO. 2 FLOOR WIRE****OK****26 CHECK NO. 2 FLOOR WIRE (TO B+)**

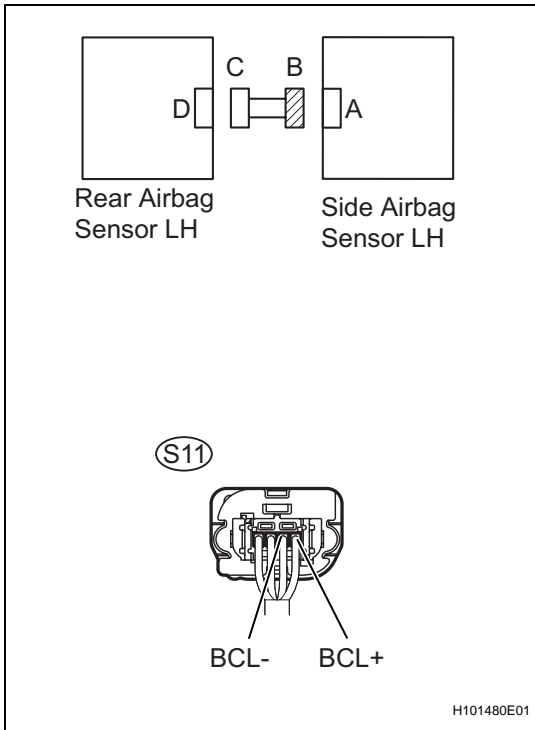
- Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
- Turn the ignition switch to the ON position.
- Measure the voltage.

Standard voltage

Tester Connection	Condition	Specified Condition
S11-1 (BCL+) - Body ground	Ignition switch ON	Below 1 V
S11-2 (BCL-) - Body ground	Ignition switch ON	Below 1 V

NG**REPAIR OR REPLACE NO. 2 FLOOR WIRE****OK**

27 CHECK NO. 2 FLOOR WIRE (TO GROUND)



- (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) Measure the resistance.

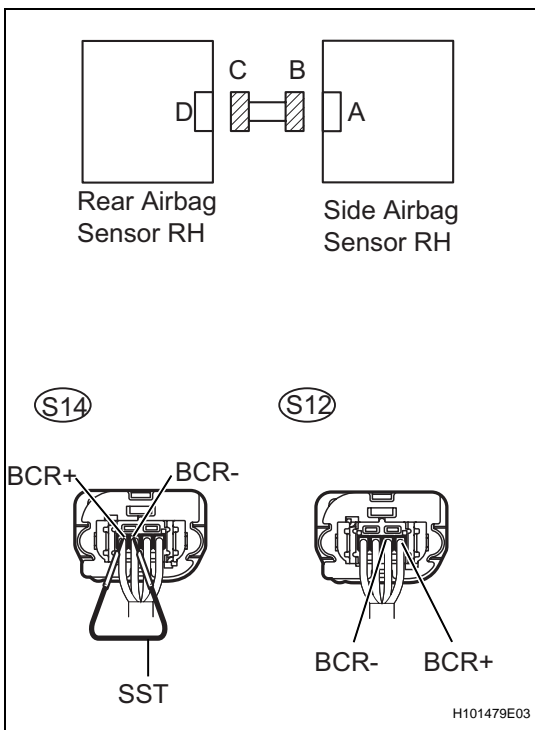
Standard resistance

Tester Connection	Condition	Specified Condition
S11-1 (BCL+) - Body ground	Always	1 MΩ or Higher
S11-2 (BCL-) - Body ground	Always	1 MΩ or Higher

NG REPAIR OR REPLACE NO. 2 FLOOR WIRE

OK

28 CHECK FLOOR WIRE (FOR OPEN)



SST 09843-18040

- (a) Disconnect the connectors from the side airbag sensor assembly RH and the rear airbag sensor RH.
- (b) Using SST, connect S14-2 (BCR+) and S14-1 (BCR-) of connector C.
- (c) Measure the resistance.

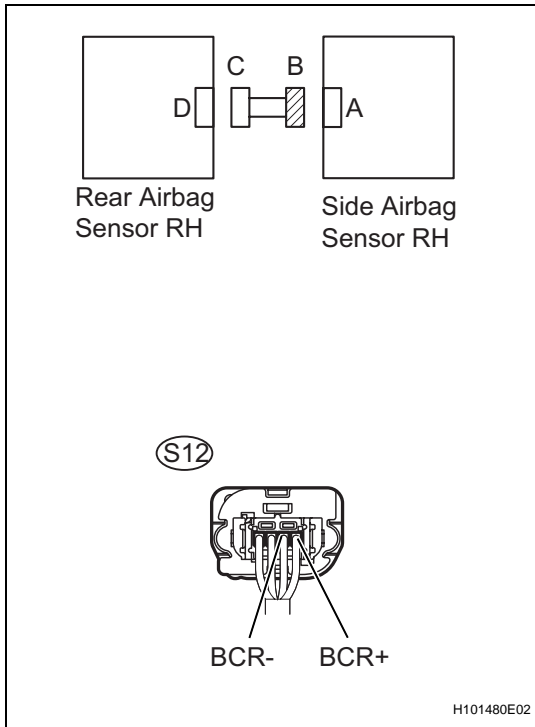
Standard resistance

Tester Connection	Condition	Specified Condition
S12-1 (BCR+) - S12-2 (BCR-)	Always	Below 1 Ω

NG REPAIR OR REPLACE FLOOR WIRE

OK

29 CHECK FLOOR WIRE (FOR SHORT)



- (a) Disconnect the SST from connector C.
- (b) Measure the resistance.

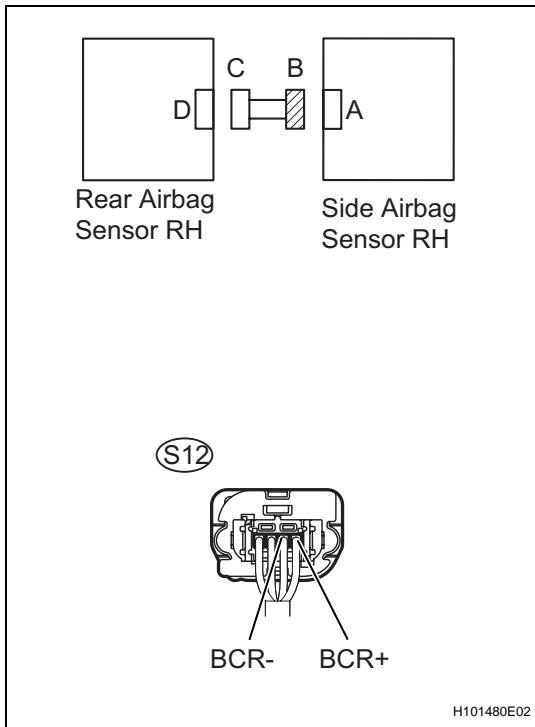
Standard resistance

Tester Connection	Condition	Specified Condition
S12-1 (BCR+) - S12-2 (BCR-)	Always	1 MΩ or Higher

NG REPAIR OR REPLACE FLOOR WIRE

OK

30 CHECK FLOOR WIRE (TO B+)



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

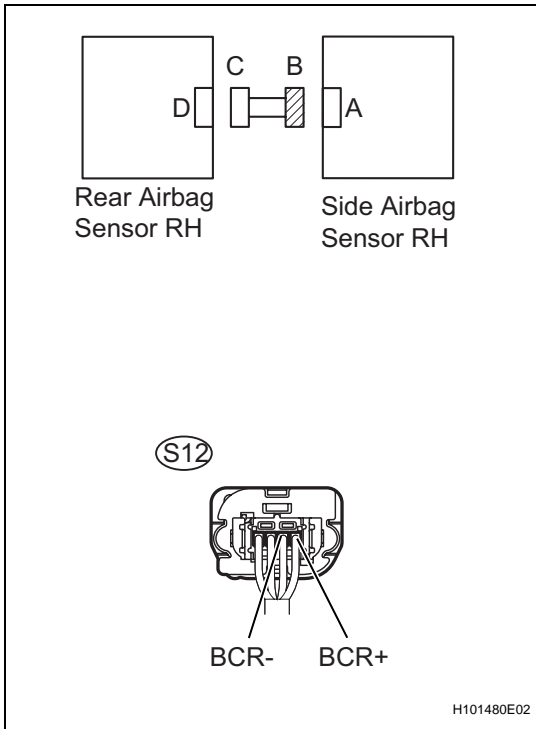
Standard voltage

Tester Connection	Condition	Specified Condition
S12-1 (BCR+) - Body ground	Ignition switch ON	Below 1 V
S12-2 (BCR-) - Body ground	Ignition switch ON	Below 1 V

NG REPAIR OR REPLACE FLOOR WIRE

OK

31 CHECK FLOOR WIRE (TO GROUND)



- (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) Measure the resistance.

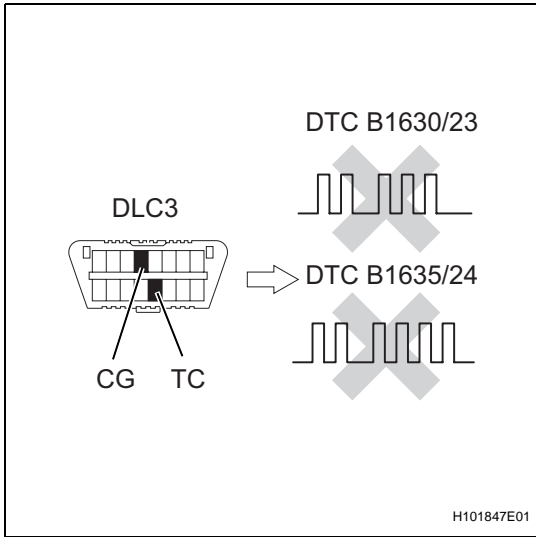
Standard resistance

Tester Connection	Condition	Specified Condition
S12-1 (BCR+) - Body ground	Always	1 MΩ or Higher
S12-2 (BCR-) - Body ground	Always	1 MΩ or Higher

NG REPAIR OR REPLACE FLOOR WIRE

OK

32 REPLACE CENTER AIRBAG SENSOR ASSEMBLY



- (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 center airbag sensor assembly (See page RS-602).

HINT:

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

- (d) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
- (e) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
- (f) Clear any DTCs stored in the memory (See page RS-34).
- (g) Turn the ignition switch to the LOCK position.
- (h) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
- (i) Check for DTCs (See page RS-34).

OK:

DTC B1630/23 and B1635/24 are not output.

RS

HINT:

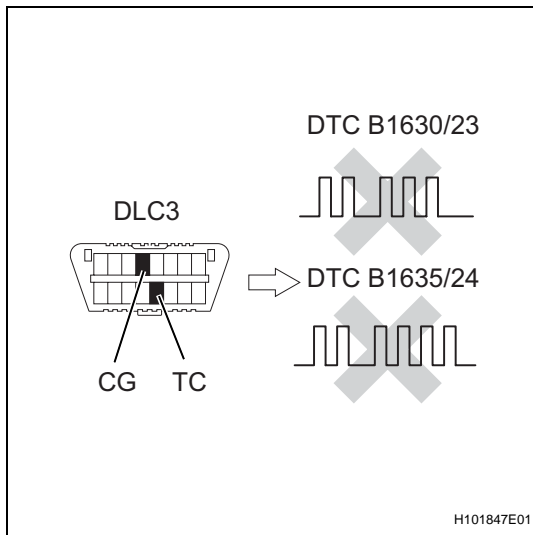
DTCs other than B1630/23 and B1635/24 may be output at this time, but they are not related to this check.

OK

END

NG

33 REPLACE REAR AIRBAG SENSOR RH



(a) Connect the connectors to the side airbag sensor assembly RH, the side airbag sensor assembly LH and center airbag sensor assembly.

(b) Replace the rear airbag sensor RH and the rear airbag sensor LH (See page [RS-613](#)).

HINT:

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

(c) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.

(d) Turn the ignition switch to the ON position, and wait for at least 60 seconds.

(e) Clear any DTCs stored in the memory (See page [RS-34](#)).

(f) Turn the ignition switch to the LOCK position.

(g) Turn the ignition switch to the ON position, and wait for at least 60 seconds.

(h) Check for DTCs (See page [RS-34](#)).

OK:

DTC B1630/23 and B1635/24 are not output.

NG

REPLACE SIDE AIRBAG SENSOR ASSEMBLY LH AND SIDE AIRBAG SENSOR ASSEMBLY RH

OK

END