

DTC	B1625/22	Front Passenger Side - Side Airbag Sensor Circuit Malfunction
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DESCRIPTION

The front passenger side - side airbag sensor circuit consists of the safing sensor, the diagnostic circuit, the lateral deceleration sensor, etc.

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

DTC B1625/22 is recorded when a malfunction is detected in the front passenger side - side airbag sensor circuit.

DTC No.	DTC Detection Condition	Trouble Area
B1625/22	- The center airbag sensor assembly 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 front passenger side - side airbag sensor circuit for 2 seconds. - Front passenger side rear airbag sensor malfunction - Front passenger side - side airbag sensor malfunction - Center airbag sensor assembly malfunction	- Floor wire - Front passenger side rear airbag sensor - Front passenger side - side airbag sensor - Center airbag sensor assembly

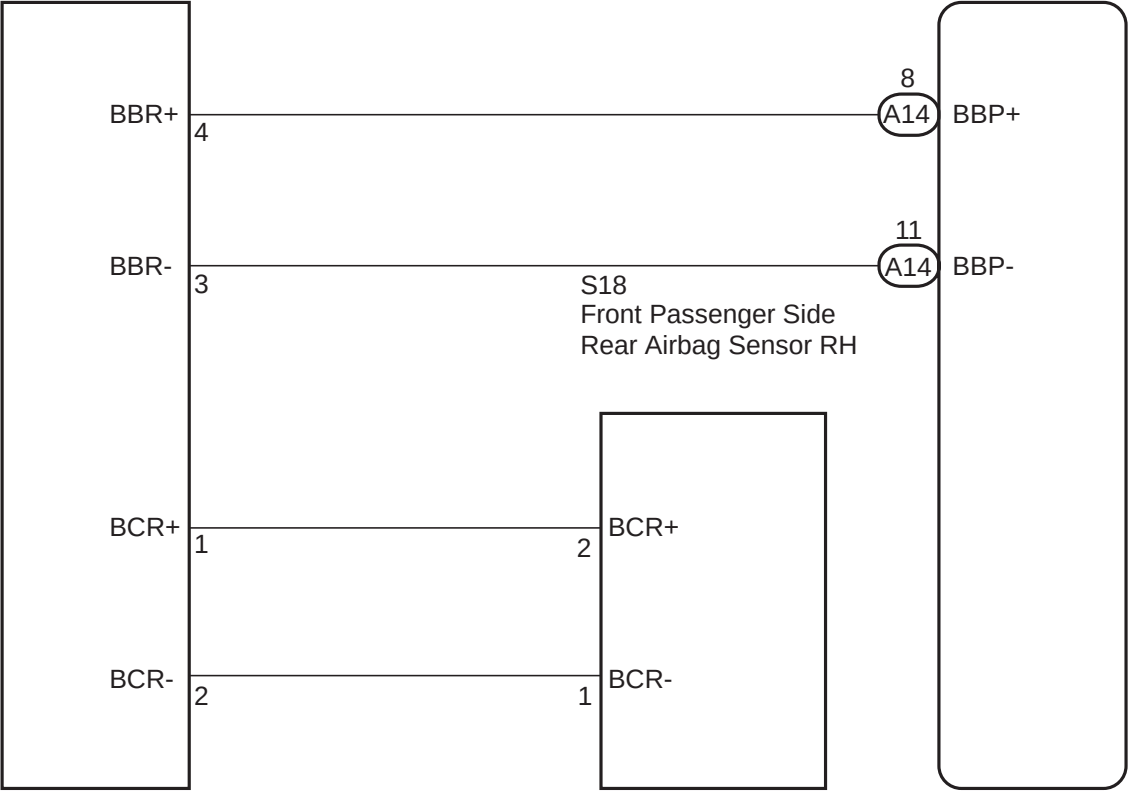
RS

WIRING DIAGRAM

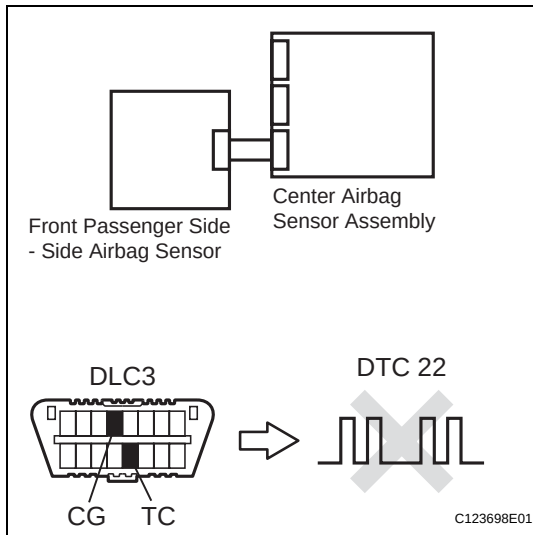
RS

S16
Front Passenger Side - Side Airbag Sensor

Center Airbag Sensor Assembly



INSPECTION PROCEDURE

1 CHECK DTC

OK

- (a) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
- (b) Clear the DTCs stored in the memory (See page RS-34).
- (c) Turn the ignition switch to the LOCK position.
- (d) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
- (e) Check the DTCs (See page RS-34).

OK:**DTC B1625/22 is not output.****HINT:**

Codes other than DTC B1625/22 may be output at this time, but they are not related to this check.

NG

Go to step 2

RS

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USE SIMULATION METHOD TO CHECK

2 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 front passenger side - side airbag sensor and the center airbag sensor assembly.

OK:**The connectors are properly connected.**

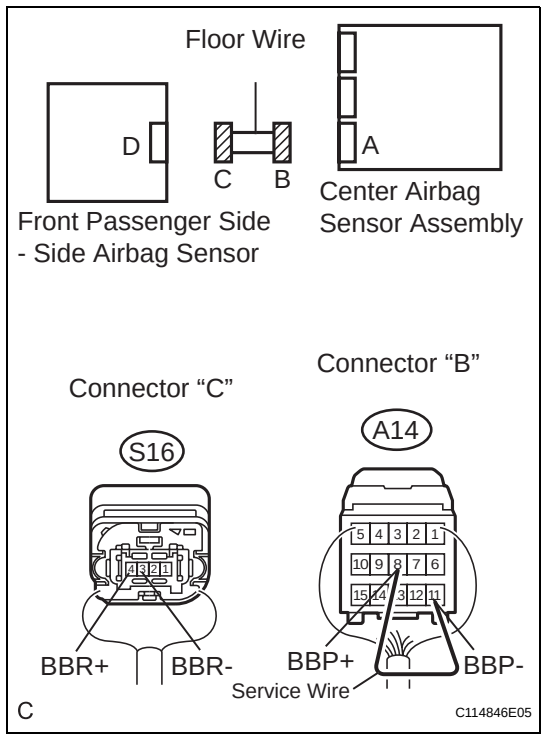
NG

CONNECT CONNECTORS, THEN GO TO STEP 1

OK

3

CHECK FLOOR WIRE (OPEN)



- (a) Disconnect the connectors from the center airbag sensor assembly and the front passenger side - side airbag sensor.
- (b) Using a service wire, connect A14-8 (BBP+) and A14-11 (BBP-) of connector "B".
- NOTICE:**
Do not forcibly insert a service wire into the terminals of the connector when connecting.
- (c) Measure the resistance according to the value(s) in the table below.

Standard resistance

Tester connection	Condition	Specified condition
S16-4 (BBR+) - S16-3 (BBR-)	Always	Below 1 Ω

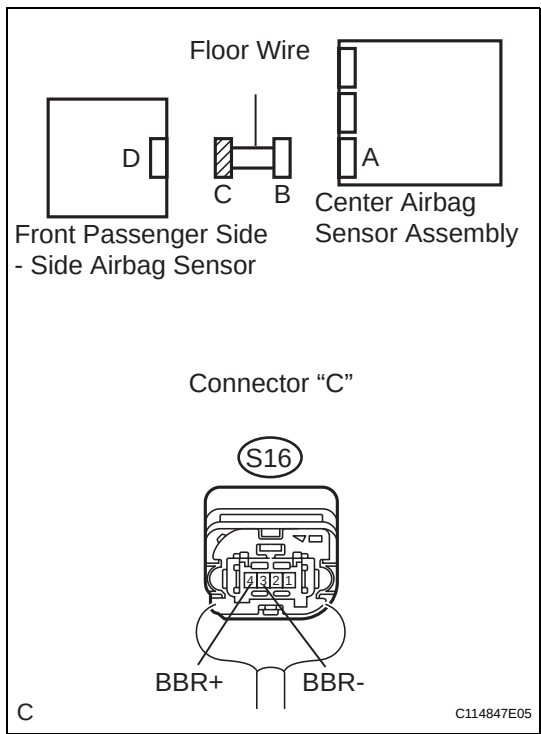
NG

REPAIR OR REPLACE FLOOR WIRE

OK

4

CHECK FLOOR WIRE (SHORT)



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

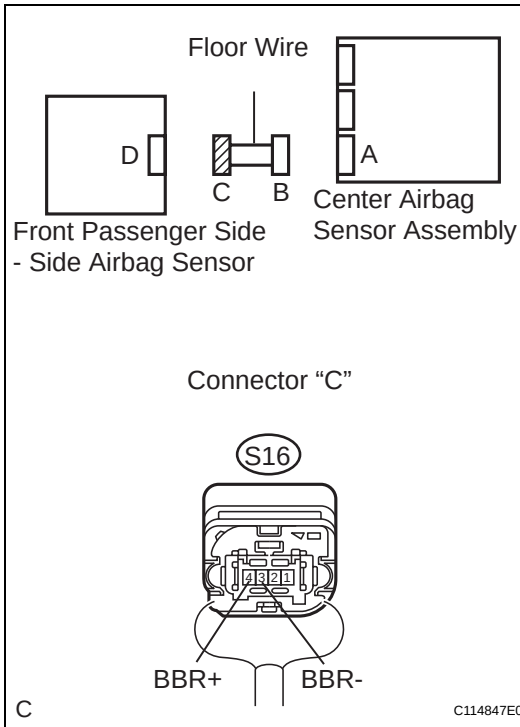
Standard resistance

Tester connection	Condition	Specified condition
S16-4 (BBR+) - S16-3 (BBR-)	Always	1 MΩ or higher

NG

REPAIR OR REPLACE FLOOR WIRE

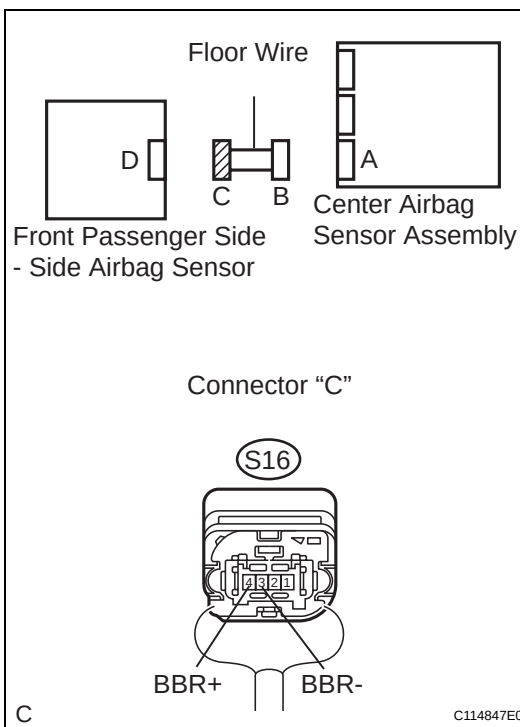
OK

5 CHECK FLOOR WIRE (SHORT TO B+)

- Disconnect the negative (-) terminal cable from the battery, and wait for at least 2 seconds.
- Turn the ignition switch to the ON position.
- Measure the voltage according to the value(s) in the table below.

Standard voltage

Tester connection	Condition	Specified condition
S16-4 (BBR+) - Body ground	Ignition switch ON	Below 1 V
S16-3 (BBR-) - Body ground	Ignition switch ON	Below 1 V

NG**REPAIR OR REPLACE FLOOR WIRE****OK****6 CHECK FLOOR WIRE (SHORT TO GROUND)**

- Turn the ignition switch to the LOCK position.
- Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
- Measure the resistance according to the value(s) in the table below.

Standard resistance

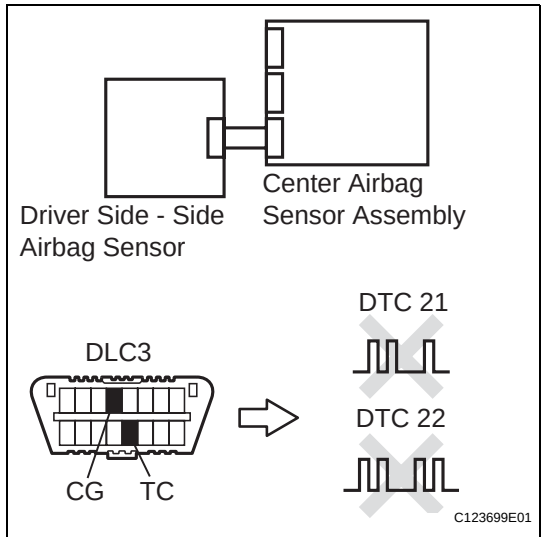
Tester connection	Condition	Specified condition
S16-4 (BBR+) - Body ground	Always	1 MΩ or higher
S16-3 (BBR-) - Body ground	Always	1 MΩ or higher

NG**REPAIR OR REPLACE FLOOR WIRE****OK****RS**

7

CHECK FRONT PASSENGER SIDE - SIDE AIRBAG SENSOR

RS



- (a) Connect the connector to the center airbag sensor assembly.
- (b) Interchange the front passenger side - side airbag sensor with the driver side - side airbag sensor 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 the 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 the DTCs (See page RS-34).

Result

Result	Proceed to
DTC B1625/22 is output.	A
DTC B1620/21 is output.	B
DTC B1620/21 and B1625/22 are not output.	C

HINT:
Codes other than DTC B1620/21 and B1625/22 may be output at this time, but they are not related to this check.

A

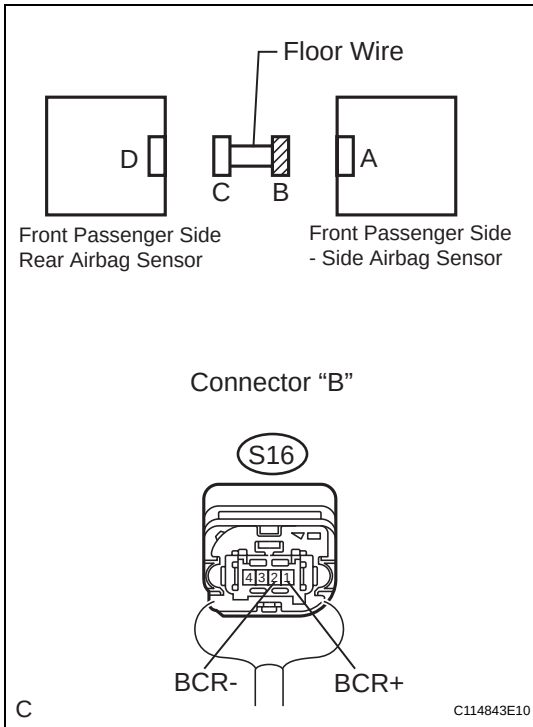
Go to step 8

B

REPLACE FRONT PASSENGER SIDE - SIDE AIRBAG SENSOR

C

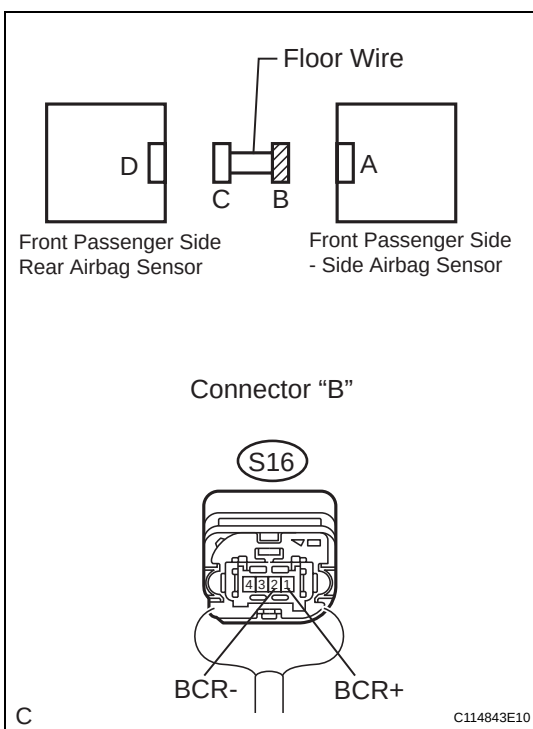
USE SIMULATION METHOD TO CHECK

8 CHECK FLOOR WIRE (SHORT)**OK**

- 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 driver side - side airbag sensor and front passenger side - side airbag sensor to their original positions and connect the connectors to them.
- Disconnect the connectors from the front passenger side - side airbag sensor and front passenger side rear airbag sensor.
- Measure the resistance according to the value(s) in the table below.

Standard resistance

Tester connection	Condition	Specified condition
S16-1 (BCR+) - S16-2 (BCR-)	Always	1 MΩ or higher

NG**REPAIR OR REPLACE FLOOR WIRE****9 CHECK FLOOR WIRE (SHORT TO GROUND)****OK**

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

Standard resistance

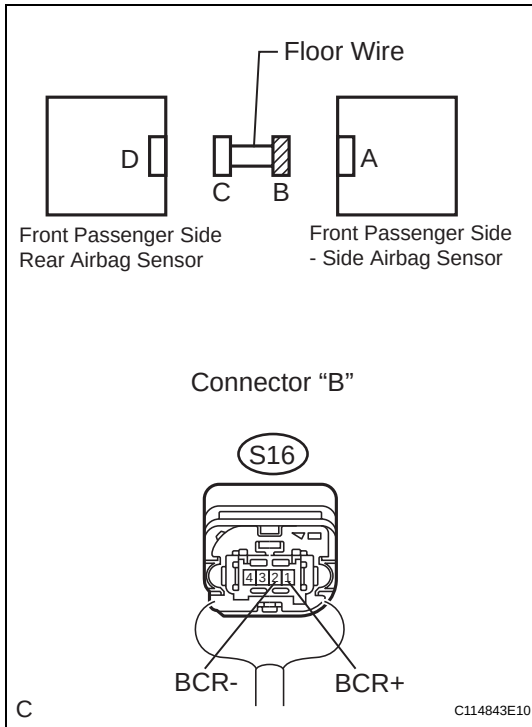
Tester connection	Condition	Specified condition
S16-1 (BCR+) - Body ground	Always	1 MΩ or higher
S16-2 (BCR-) - Body ground	Always	1 MΩ or higher

NG**REPAIR OR REPLACE FLOOR WIRE****RS**

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10 CHECK FLOOR WIRE (SHORT TO B+)

RS



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

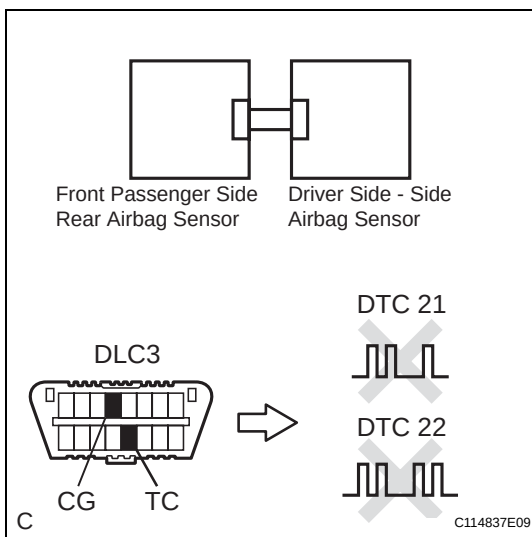
Standard voltage

Tester connection	Condition	Specified condition
S16-1 (BCR+) - Body ground	Ignition switch ON	Below 1 V
S16-2 (BCR-) - Body ground	Ignition switch ON	Below 1 V

NG

REPAIR OR REPLACE FLOOR WIRE

OK

11 CHECK FRONT PASSENGER SIDE REAR AIRBAG SENSOR

- Turn the ignition switch to the LOCK position.
- Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
- Connect the connector to the front passenger side - side airbag sensor.
- Interchange the front passenger side rear airbag sensor with the driver side rear airbag sensor 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 the 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 the DTCs (See page RS-34).

Result

Result	Proceed to
DTC B1625/22 is output.	A
DTC B1620/21 is output.	B
DTC B1620/21 and B1625/22 are not output.	C

HINT:

Codes other than DTC B1620/21 and B1625/22 may be output at this time, but they are not related to this check.

A

REPLACE CENTER AIRBAG SENSOR
ASSEMBLY

B

REPLACE FRONT PASSENGER SIDE REAR
AIRBAG SENSOR

C

USE SIMULATION METHOD TO CHECK

RS