

DTC	B1820/55	Short in Front Driver Side - Side Squib Circuit
DTC	B1821/55	Open in Front Driver Side - Side Squib Circuit
DTC	B1822/55	Short to GND in Front Driver Side - Side Squib Circuit
DTC	B1823/55	Short to B+ in Front Driver Side - Side Squib Circuit

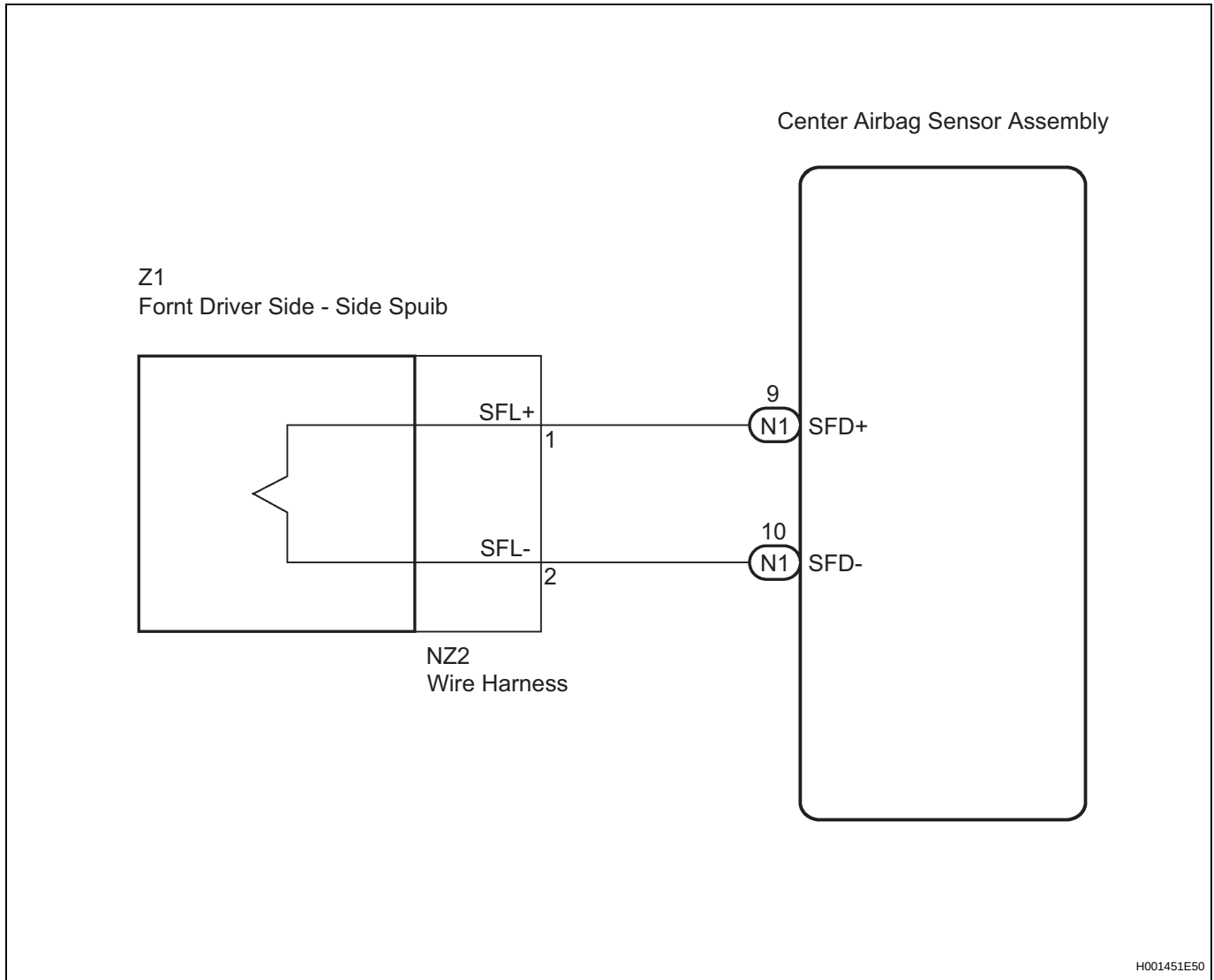
DESCRIPTION

The front driver side - side squib circuit consists of the center airbag sensor assembly and the front seat side airbag assembly LH.

This circuit instructs the SRS to deploy when deployment conditions are met.

These DTCs are recorded when a malfunction is detected in the front driver side - side squib circuit.

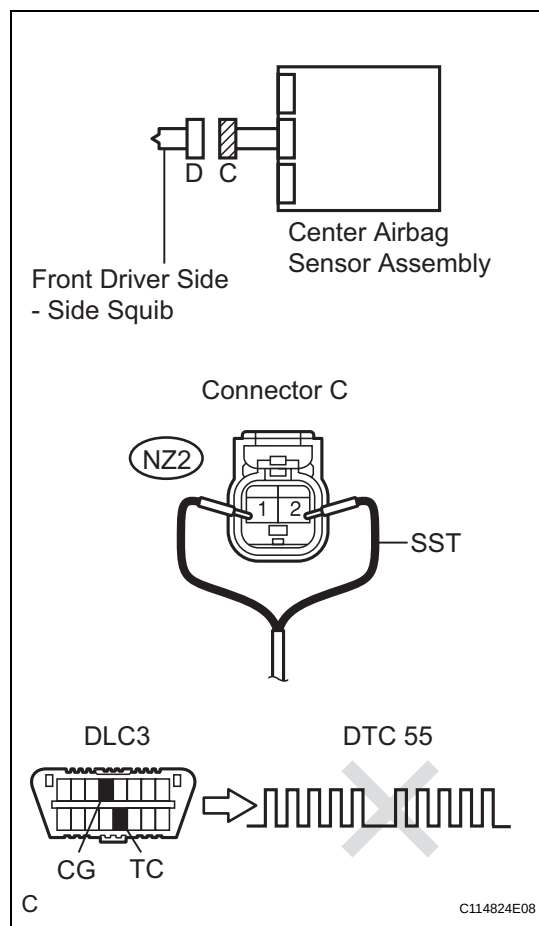
DTC No.	DTC Detection Condition	Trouble Area
B1820/55	- The center airbag sensor assembly receives a line short circuit signal 5 times in the front driver side - side squib circuit during primary check. - Front driver side - side squib malfunction - Center airbag sensor assembly malfunction	- Floor wire - Front seat side airbag assembly LH (Front driver side - side squib) - Center airbag sensor assembly
B1821/55	- The center airbag sensor assembly receives an open circuit signal in the front driver side - side squib circuit for 2 seconds. - Front driver side - side squib malfunction - Center airbag sensor assembly malfunction	- Floor wire - Front seat side airbag assembly LH (Front driver side - side squib) - Center airbag sensor assembly
B1822/55	- The center airbag sensor assembly receives a short circuit to ground signal in the front driver side - side squib circuit for 0.5 seconds. - Front driver side - side squib malfunction - Center airbag sensor assembly malfunction	- Floor wire - Front seat side airbag assembly LH (Front driver side - side squib) - Center airbag sensor assembly
B1823/55	- The center airbag sensor assembly receives a short circuit to B+ signal in the front driver side - side squib circuit for 0.5 seconds. - Front driver side - side squib malfunction - Center airbag sensor assembly malfunction	- Floor wire - Front seat side airbag assembly LH (Front driver side - side squib) - Center airbag sensor assembly

WIRING DIAGRAM**INSPECTION PROCEDURE****HINT:**

- Perform the simulation method by selecting "check mode" (signal check) with the intelligent tester (See page [RS-44](#)).
- After selecting "check mode" (signal check), perform the simulation method by wiggling each connector of the airbag system or driving the vehicle on a city or rough road (See page [RS-44](#)).

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CHECK FRONT SEAT SIDE AIRBAG ASSEMBLY LH (FRONT DRIVER SIDE - SIDE SQUIB)



- (a) Turn the power switch off.
- (b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
- (c) Disconnect the connector from the front seat side airbag assembly LH.
- (d) Connect the black wire side of SST (resistance 2.1 Ω) to connector C.

CAUTION:

Never connect the tester to the front seat side airbag assembly LH (front driver side - side squib) for measurement, as this may lead to a serious injury due to airbag deployment.

NOTICE:

- Do not forcibly insert the SST into the terminals of the connector when connecting.
- Insert straight the SST into the terminals of the connector.

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- (e) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
- (f) Turn the power switch on (IG), and wait for at least 60 seconds.
- (g) Clear the DTCs stored in the memory (See page RS-41).
- (h) Turn the power switch off.
- (i) Turn the power switch on (IG), and wait for at least 60 seconds.
- (j) Check the DTCs (See page RS-41).

OK:

DTC B1820, B1821, B1822, B1823, or 55 is not output.

HINT:

Codes other than DTC B1820, B1821, B1822, B1823, and 55 may be output at this time, but they are not related to this check.

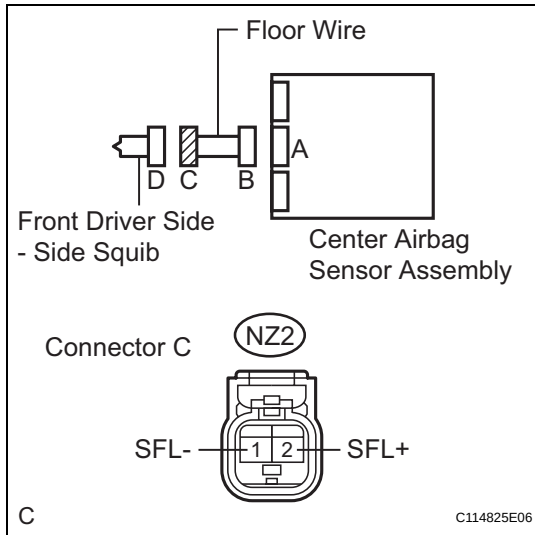
OK

REPLACE FRONT SEAT ASSEMBLY LH

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CHECK FLOOR WIRE (FRONT DRIVER SIDE - SIDE SQUIB CIRCUIT)



- (a) Turn the power switch off.
- (b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
- (c) Disconnect the SST from connector C.
- (d) Disconnect the connectors from the center airbag sensor assembly.
- (e) Check for a short to B+ in the circuit.
 - (1) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
 - (2) Turn the power switch on (IG).
 - (3) Measure the voltage according to the value(s) in the table below.

Standard voltage

Tester Connection	Condition	Specified Condition
NZ2-2 (SFL+) - Body ground	Power switch on (IG)	Below 1 V
NZ2-1 (SFL-) - Body ground	Power switch on (IG)	Below 1 V

- (f) Check for an open in the circuit.
 - (1) Turn the power switch off.
 - (2) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
 - (3) Measure the resistance according to the value(s) in the table below.

Standard resistance

Tester Connection	Condition	Specified Condition
NZ2-2 (SFL+) - NZ2-1 (SFL-)	Always	Below 1 Ω

- (g) Check for a short to ground in the circuit.
 - (1) Measure the resistance according to the value(s) in the table below.

Standard resistance

Tester Connection	Condition	Specified Condition
NZ2-2 (SFL+) - Body ground	Always	1 M Ω or higher
NZ2-1 (SFL-) - Body ground	Always	1 M Ω or higher

- (h) Check for a short in the circuit.
 - (1) Release the activation prevention mechanism built into connector B (See page RS-33).
 - (2) Measure the resistance according to the value(s) in the table below.

Standard resistance

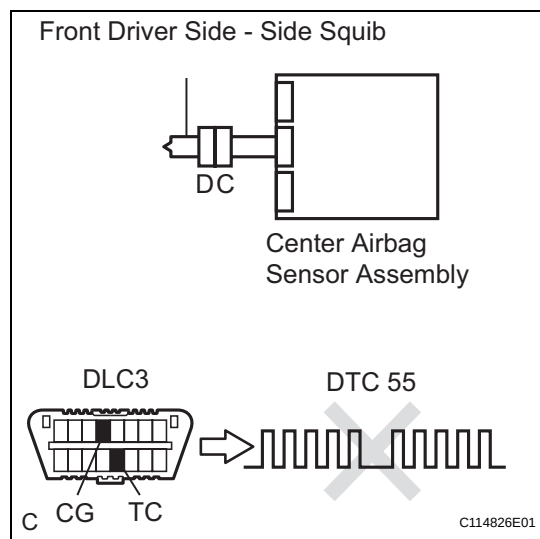
Tester Connection	Condition	Specified Condition
NZ2-2 (SFL+) - NZ2-1 (SFL-)	Always	1 M Ω or higher

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REPAIR OR REPLACE FLOOR WIRE

RS

OK

3 CHECK CENTER AIRBAG SENSOR ASSEMBLY

- Connect the connectors to the front seat side airbag assembly LH and the center airbag sensor assembly.
- Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
- Turn the power switch on (IG), and wait for at least 60 seconds.
- Clear the DTCs stored in the memory (See page [RS-41](#)).
- Turn the power switch off.
- Turn the power switch on (IG), and wait for at least 60 seconds.
- Check the DTCs (See page [RS-41](#)).

OK:

DTC B1820, B1821, B1822, B1823, or 55 is not output.

HINT:

Codes other than DTC B1820, B1821, B1822, B1823, and 55 may be output at this time, but they are not related to this check.

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REPLACE CENTER AIRBAG SENSOR ASSEMBLY (See page [RS-423](#))

OK

USE SIMULATION METHOD TO CHECK (See page [RS-33](#))