

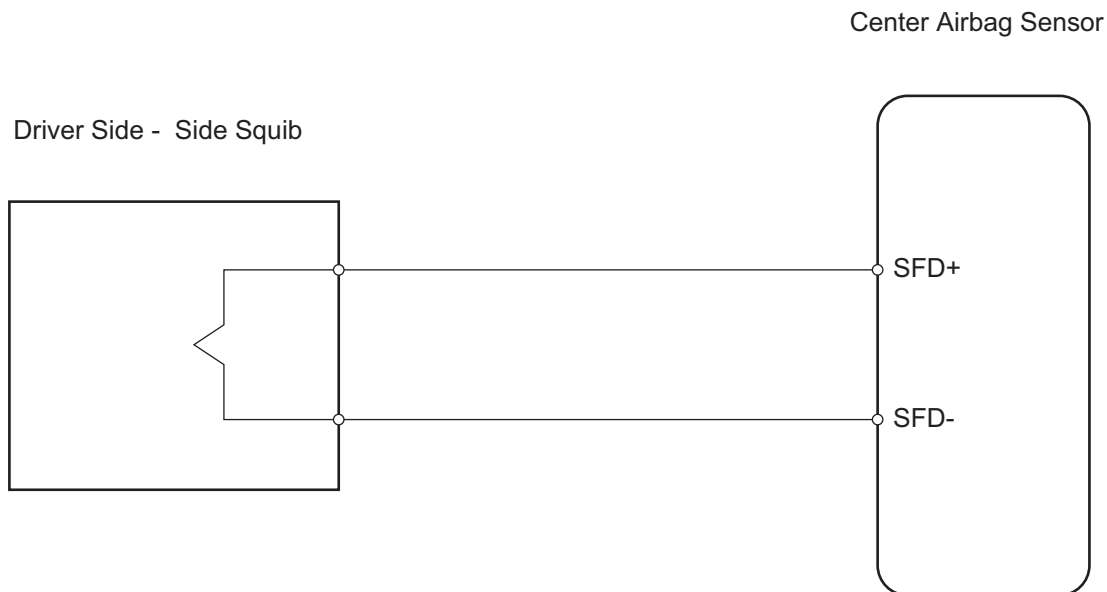
<b>DTC</b>	<b>B1820/55</b>	<b>Short in Front Driver Side - Side Squib Circuit</b>
<b>DTC</b>	<b>B1821/55</b>	<b>Open in Front Driver Side - Side Squib Circuit</b>
<b>DTC</b>	<b>B1822/55</b>	<b>Short to GND in Front Driver Side - Side Squib Circuit</b>
<b>DTC</b>	<b>B1823/55</b>	<b>Short to B+ in Front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

## DESCRIPTION

The driver side - side squib circuit consists of the center airbag sensor and the front seat side airbag LH. This circuit instructs the SRS to deploy when the deployment conditions are met.

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

<b>DTC No.</b>	<b>DTC Detection Condition</b>	<b>Trouble Area</b>
B1820/55	Center airbag sensor receives a line short signal 5 times in the driver side - side squib circuit during primary check.	<ul style="list-style-type: none"> <li>Floor wire</li> <li>No. 1 seat airbag wire</li> <li>Front seat side airbag LH (Driver side - side squib)</li> <li>Center airbag sensor</li> </ul>
B1821/55	Center airbag sensor receives an open signal in the driver side - side squib circuit for 2 seconds.	<ul style="list-style-type: none"> <li>Floor wire</li> <li>No. 1 seat airbag wire</li> <li>Front seat side airbag LH (Driver side - side squib)</li> <li>Center airbag sensor</li> </ul>
B1822/55	Center airbag sensor receives a short to ground signal in the driver side - side squib circuit for 0.5 seconds.	<ul style="list-style-type: none"> <li>Floor wire</li> <li>No. 1 seat airbag wire</li> <li>Front seat side airbag LH (Driver side - side squib)</li> <li>Center airbag sensor</li> </ul>
B1823/55	Center airbag sensor receives a short to B+ signal in the driver side - side squib circuit for 0.5 seconds.	<ul style="list-style-type: none"> <li>Floor wire</li> <li>No. 1 seat airbag wire</li> <li>Front seat side airbag LH (Driver side - side squib)</li> <li>Center airbag sensor</li> </ul>

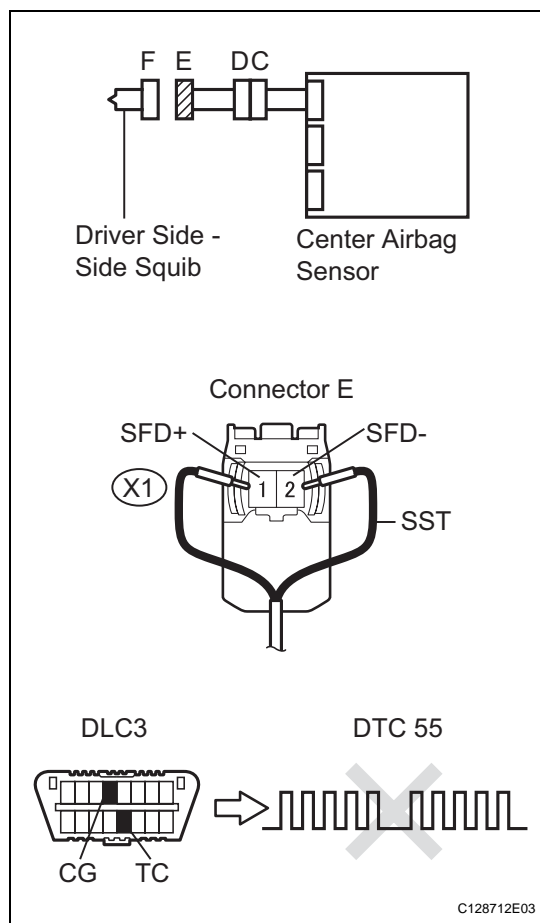
**WIRING DIAGRAM****RS**

H101119E23

**INSPECTION PROCEDURE****HINT:**

- Perform the simulation method by selecting the "CHECK MODE" (signal check) with the intelligent tester (see page [RS-52](#)).
- After selecting the "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-52](#)).

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



- Turn the ignition switch OFF.
- Disconnect the cable from the negative (-) battery terminal, and wait for at least 90 seconds.
- Disconnect the connector from the front seat side airbag LH.
- Connect the black wire side of SST to connector E.

## CAUTION:

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

## NOTICE:

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

## SST 09843-18060

- Connect the cable to the negative (-) battery terminal, and wait for at least 2 seconds.
- Turn the ignition switch ON, and wait for at least 60 seconds.
- Clear the DTCs (see page RS-49).
- Turn the ignition switch OFF.
- Turn the ignition switch ON, and wait for at least 60 seconds.
- Check the DTCs (see page RS-49).

## OK:

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

## HINT:

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

OK

REPLACE FRONT SEAT ASSEMBLY LH

NG

# 2 CHECK CONNECTOR

- Turn the ignition switch OFF.
- Disconnect the cable from the negative (-) battery terminal, and wait for at least 90 seconds.
- Disconnect SST from the No. 1 seat airbag wire.
- Check that the floor wire connectors (on the driver side - side squib) are not damaged.

## OK:

**Lock button is not disengaged, and claw of lock is not deformed or damaged.**

NG

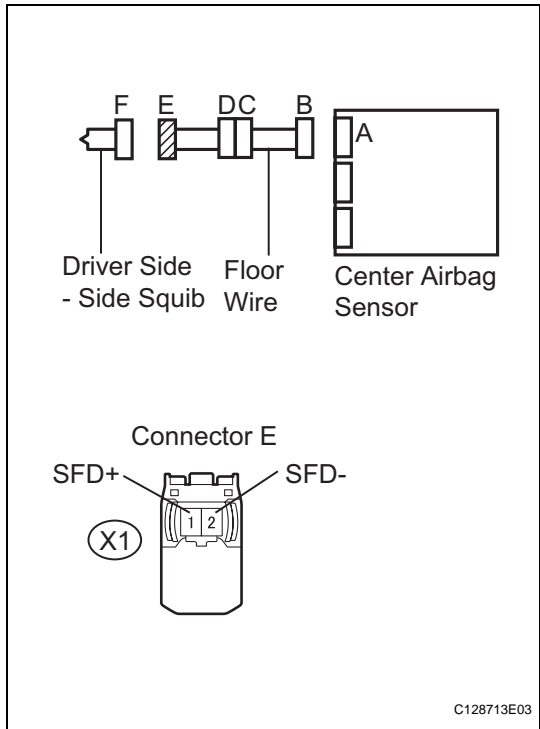
REPLACE FLOOR WIRE

RS

OK

3

CHECK FLOOR WIRE (DRIVER SIDE - SIDE SQUIB CIRCUIT)



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

Tester Connection	Specified Condition
X1-1 (SFD-) - Body ground	Below 1 V
X1-2 (SFD+) - Body ground	Below 1 V

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

Tester Connection	Specified Condition
X1-1 (SFD-) - X1-2 (SFD+)	Below 1 Ω
X1-1 (SFL-) - Body ground	1 MΩ or higher
X1-2 (SFL+) - Body ground	1 MΩ or higher

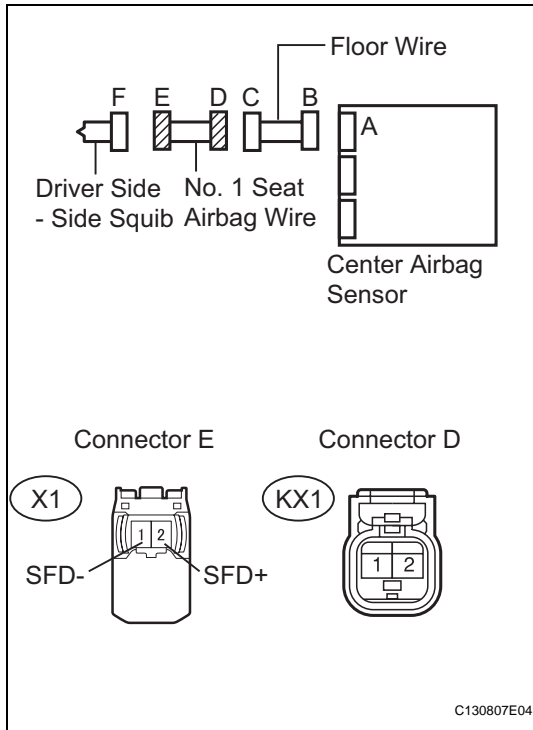
- (h) Release the activation prevention mechanism built into connector B (see page RS-37).
  - (i) Measure the resistance of the wire harness side connector.
- Standard resistance**

Tester Connection	Specified Condition
X1-1 (SFD-) - X1-2 (SFD+)	1 MΩ or higher

OK

REPLACE CENTER AIRBAG SENSOR ASSEMBLY

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**4****CHECK NO. 1 SEAT AIRBAG WIRE**

- Disconnect the No. 1 seat airbag wire connector from the floor wire.
- Connect the cable to the negative (-) battery terminal, and wait for at least 2 seconds.
- Turn the ignition switch ON.
- Measure the voltage of the wire harness side connector.

**Standard voltage**

Tester Connection	Specified Condition
X1-1 (SFD-) - Body ground	Below 1 V
X1-2 (SFD+) - Body ground	Below 1 V

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

**Standard resistance**

Tester Connection	Specified Condition
X1-2 (SFD+) - KX1-2	Below 1 $\Omega$
X1-1 (SFD-) - KX1-1	Below 1 $\Omega$
X1-2 (SFD+) - X1-1 (SFD-)	1 M $\Omega$ or higher
X1-2 (SFD+) - Body ground	1 M $\Omega$ or higher
X1-1 (SFD-) - Body ground	1 M $\Omega$ or higher

**NG****REPAIR OR REPLACE NO. 1 SEAT AIRBAG WIRE****OK****RS****REPAIR OR REPLACE FLOOR WIRE**