DTC	B1825/56	Short in Front Passenger Side - Side Squib Circuit

DTC	B1826/56	Open in Front Passenger Side - Side Squib Circuit

DTC	B1827/56	Short to GND in Front Passenger Side - Side Squib Circuit

DTC	B1828/56	Short to B+ in Front Passenger Side - Side Squib Circuit

DESCRIPTION

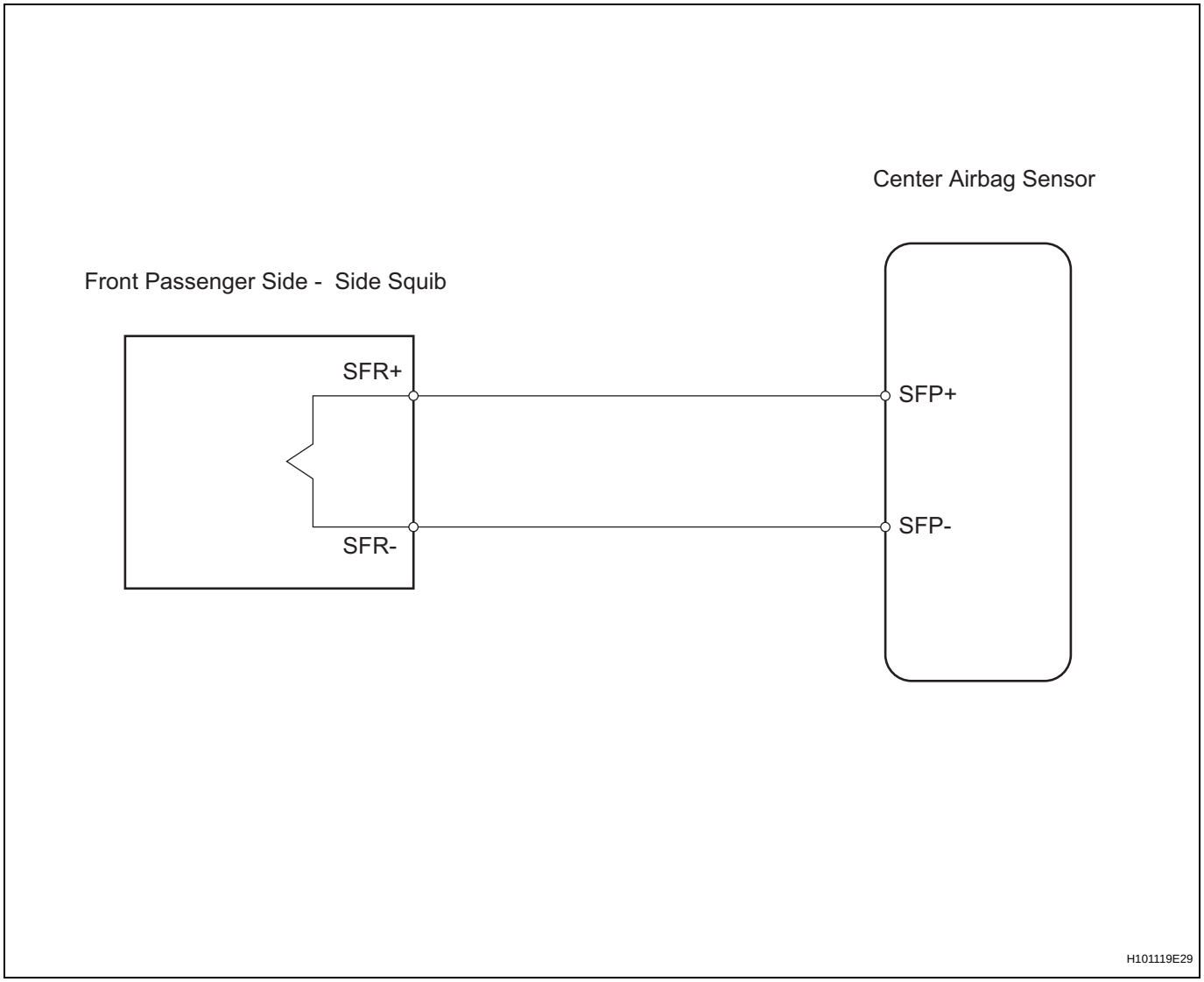
The front passenger side - side squib circuit consists of the center airbag sensor and the front seat side airbag RH.

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

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

DTC No.	DTC Detection Condition	Trouble Area
B1825/56	The center airbag sensor receives a line short signal 5 times in the front passenger side - side squib circuit during primary check.	• No. 2 floor wire • No. 2 seat airbag wire • Front seat side airbag RH (Front passenger side - side squib) • Center airbag sensor
B1826/56	Center airbag sensor receives an open signal in the front passenger side - side squib circuit for 2 seconds.	• No. 2 floor wire • No. 2 seat airbag wire • Front seat side airbag RH (Front passenger side - side squib) • Center airbag sensor
B1827/56	Center airbag sensor receives a short to ground signal in the front passenger side - side squib circuit for 0.5 seconds.	• No. 2 floor wire • No. 2 seat airbag wire • Front seat side airbag RH (Front passenger side - side squib) • Center airbag sensor
B1828/56	Center airbag sensor receives a short to B+ signal in the front passenger side - side squib circuit for 0.5 seconds.	• No. 2 floor wire • No. 2 seat airbag wire • Front seat side airbag RH (Front passenger side - side squib) • Center airbag sensor

WIRING DIAGRAM



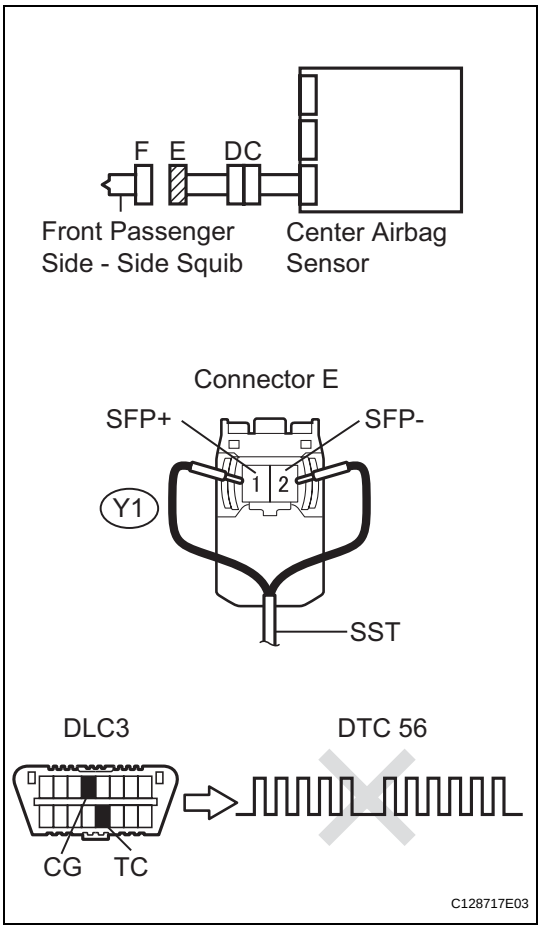
RS

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 RH (FRONT PASSENGER SIDE - SIDE SQUIB)



(a) Turn the ignition switch OFF.
(b) Disconnect the cable from the negative (-) battery terminal, and wait for at least 90 seconds.
(c) Disconnect the connector from the front seat side airbag RH.
(d) Connect the black wire side of SST to connector C.
CAUTION:
Never connect a tester to the front seat side airbag RH (front passenger 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.**

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(e) Connect the cable to the negative (-) battery terminal, and wait for at least 2 seconds.
(f) Turn the ignition switch ON, and wait for at least 60 seconds.
(g) Clear the DTCs (see page RS-49).
(h) Turn the ignition switch OFF.
(i) Turn the ignition switch ON, and wait for at least 60 seconds.
(j) Check the DTCs (see page RS-49).
OK:
DTC B1825, B1826, B1827, B1828 or 56 is not output.
HINT:
DTCs other than DTC B1825, B1826, B1827, B1828 or 56 may be output at this time, but they are not related to this check.

OK → **REPLACE FRONT SEAT ASSEMBLY RH**

NG

2	CHECK CONNECTOR

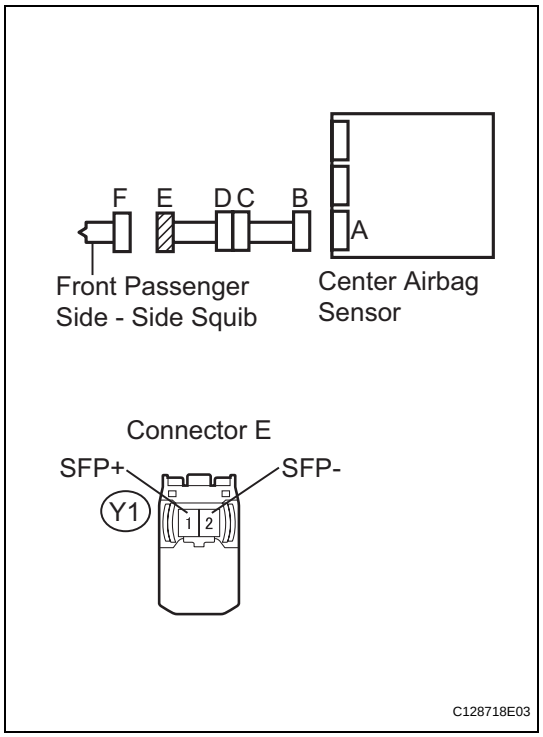
(a) Turn the ignition switch OFF.
(b) Disconnect the cable from the negative (-) battery terminal, and wait for at least 90 seconds.
(c) Disconnect SST from connector E.
(d) Check that the No. 2 seat airbag wire connectors (on the front passenger side - side squib) are not damaged.
OK:
Lock button is not disengaged, and claw of lock is not deformed or damaged.

RS

NG → REPLACE FLOOR WIRE NO.2

OK

3 CHECK NO. 2 FLOOR WIRE (FRONT PASSENGER 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
Y1-1 (SFP+) - Body ground	Below 1 V
Y1-2 (SFP-) - 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
Y1-1 (SFP+) - Y1-2 (SFP-)	Below 1 Ω
Y1-1 (SFP+) - Body ground	1 MΩ or higher
Y1-2 (SFP-) - 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

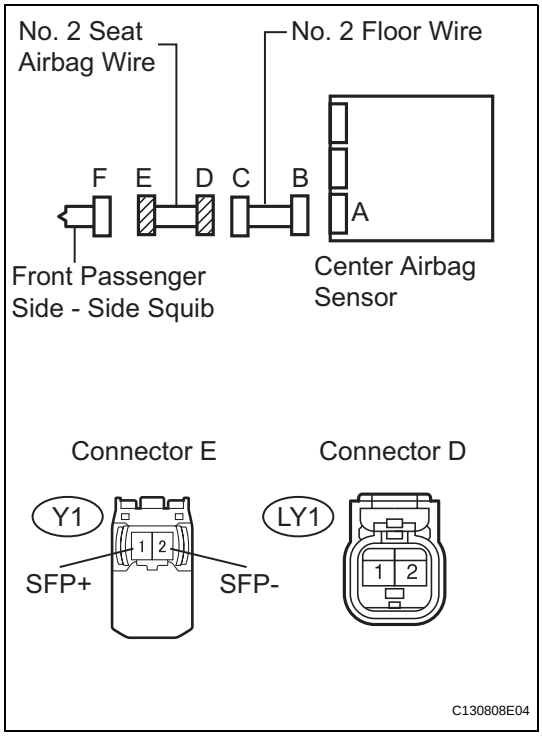
Tester Connection	Specified Condition
Y1-1 (SFP+) - Y1-2 (SFP-)	1 MΩ or higher

OK → REPLACE CENTER AIRBAG SENSOR ASSEMBLY

NG

RS

4	CHECK NO. 2 SEAT AIRBAG WIRE



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

Standard voltage

Tester Connection	Specified Condition
Y1-1 (SFP+) - Body ground	Below 1 V
Y1-2 (SFP-) - 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
Y1-1 (SFP+) - LY1-1	Below 1 Ω
Y1-2 (SFP-) - LY1-2	Below 1 Ω
Y1-1 (SFP+) - Y1-2 (SFP-)	1 MΩ or higher
Y1-1 (SFP+) - Body ground	1 MΩ or higher
Y1-2 (SFP-)) - Body ground	1 MΩ or higher

NG → **REPAIR OR REPLACE NO. 2 SEAT AIRBAG WIRE**

OK

REPAIR OR REPLACE NO. 2 FLOOR WIRE

RS