

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 assembly and the front seat side airbag assembly RH.

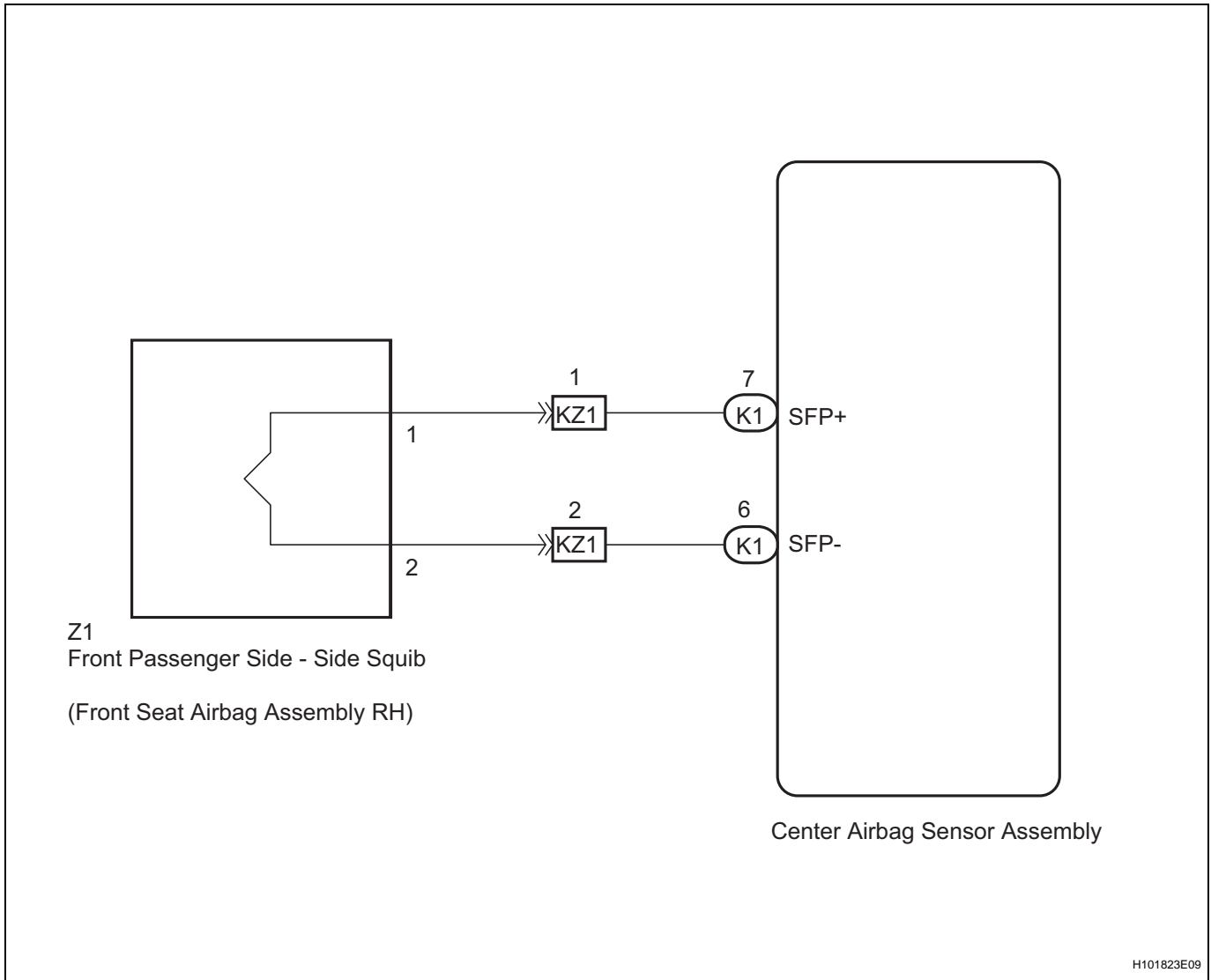
The circuit signals the SRS to deploy when deployment conditions are met.

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

RS

DTC No.	DTC Detection Condition	Trouble Area
B1825/56	<ul style="list-style-type: none"> Center airbag sensor assembly detects line short circuit signal in front passenger side - side squib circuit 5 times during primary check. Front passenger side - side squib malfunction Center airbag sensor assembly malfunction 	<ul style="list-style-type: none"> Floor wire Front seat side airbag assembly RH (Front passenger side - side squib) Center airbag sensor assembly
B1826/56	<ul style="list-style-type: none"> Center airbag sensor assembly detects open circuit signal in front passenger side - side squib circuit for 2 seconds. Front passenger side - side squib malfunction Center airbag sensor assembly malfunction 	<ul style="list-style-type: none"> Floor wire Front seat side airbag assembly RH (Front passenger side - side squib) Center airbag sensor assembly
B1827/56	<ul style="list-style-type: none"> Center airbag sensor assembly detects short circuit to ground signal in front passenger side - side squib circuit for 0.5 seconds. Front passenger side - side squib malfunction Center airbag sensor assembly malfunction 	<ul style="list-style-type: none"> Floor wire Front seat side airbag assembly RH (Front passenger side - side squib) Center airbag sensor assembly
B1828/56	<ul style="list-style-type: none"> Center airbag sensor assembly detects short circuit to B+ signal in front passenger side - side squib circuit for 0.5 seconds. Front passenger side - side squib malfunction Center airbag sensor assembly malfunction 	<ul style="list-style-type: none"> Floor wire Front seat side airbag assembly RH (Front passenger 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-39](#)).
- 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-29](#)).

1

CHECK CONNECTOR (FRONT PASSENGER SIDE - SIDE SQUIB - FLOOR WIRE)

- Turn the ignition switch off.
- Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
- Check the floor wire connector and terminals (on the front seat side airbag assembly RH side) and check the connector is properly connected to the front seat side airbag assembly RH.

Result

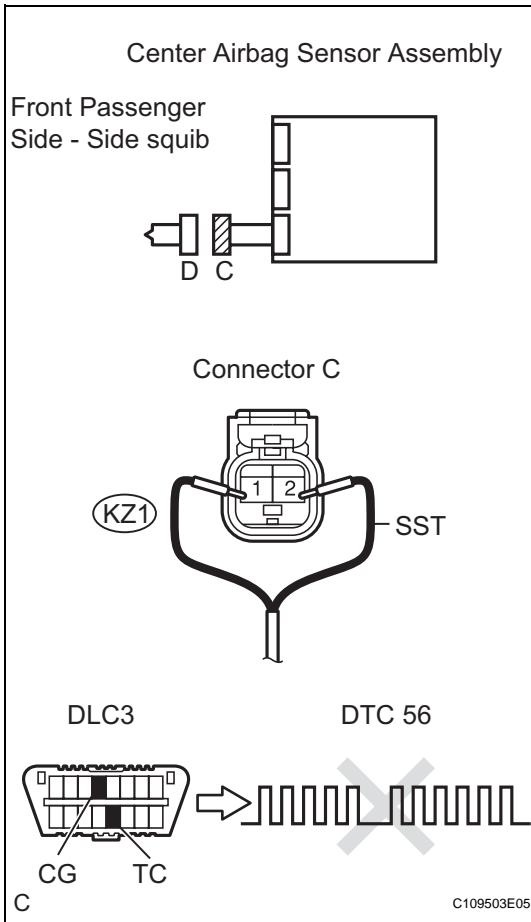
Result	Proceed to
No problem.	A
Connector or terminals incorrect.	B
Connector connected improperly.	C

B REPAIR OR REPLACE FLOOR WIRE

C CONNECT CONNECTOR PROPERLY

A

2 CHECK FRONT SEAT SIDE AIRBAG ASSEMBLY RH (FRONT PASSENGER SIDE - SIDE SQUIB)



SST 09843-18060

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

CAUTION:

Never connect a tester to the front seat side airbag assembly 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 the SST into the terminals of the connector when connecting.
 - Insert the SST straight into the terminals of the connector.
- Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
 - Turn the ignition switch on, and wait for at least 60 seconds.
 - Clear the DTCs stored in the memory (See page RS-36).
 - Turn the ignition switch off.
 - Turn the ignition switch on, and wait for at least 60 seconds.
 - Check the DTCs (See page RS-36).

OK:

DTC B1825/56, B1826/56, B1827/56 and B1828/56 are not output.

HINT:

DTCs other than DTC B1825/56, B1826/56, B1827/56 and B1828/56 may be output at this time, but they are not related to this check.

NG

OK REPLACE FRONT SEAT ASSEMBLY RH

RS

3 CHECK CONNECTOR (FLOOR WIRE - CENTER AIRBAG SENSOR ASSEMBLY)

- (a) Turn the ignition 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) Check the floor wire connector and terminals (on the center airbag sensor assembly side) and check the connector properly connected to the center airbag sensor assembly.

Result

Result	Proceed to
No problem.	A
Connector or terminals incorrect.	B
Connector connected improperly.	C

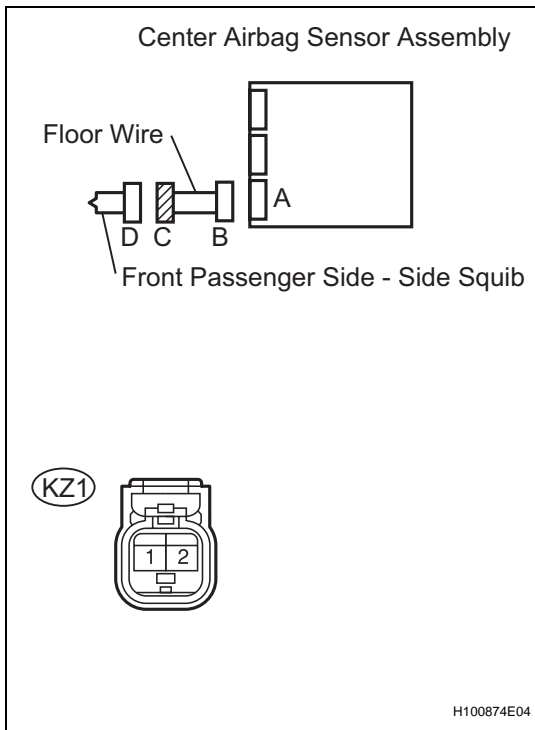
RS

B → **REPAIR OR REPLACE FLOOR WIRE**

C → **CONNECT CONNECTOR PROPERLY**

A

4 CHECK FLOOR WIRE (FRONT PASSENGER SIDE - SIDE SQUIB CIRCUIT)



- (a) Disconnect the connectors from the center airbag sensor assembly.
- (b) Check for 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 ignition switch on.
 - (3) Measure the voltage.

Standard voltage

Tester Connection	Condition	Specified Condition
1 - Body ground	Ignition switch on	Below 1 V
2 - Body ground	Ignition switch on	Below 1 V

- (c) Check for open in the circuit.
 - (1) Turn the ignition switch off.
 - (2) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
 - (3) Measure the resistance.

Standard resistance

Tester Connection	Condition	Specified Condition
1 - 2	Always	Below 1 Ω

- (d) Check for short to ground in the circuit.

- (1) Measure the resistance.

Standard resistance

Tester Connection	Condition	Specified Condition
1 - Body ground	Always	1 MΩ or higher
2 - Body ground	Always	1 MΩ or higher

- (e) Check for short in the circuit.
 - (1) Release the activation prevention mechanism built into connector B (See page RS-29).
 - (2) Measure the resistance.

Standard resistance

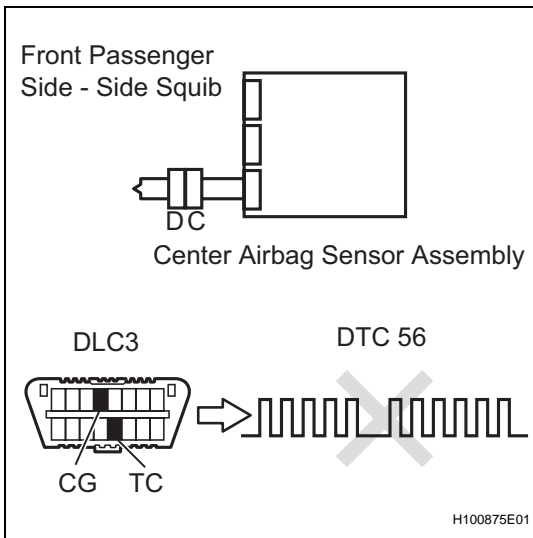
Tester Connection	Condition	Specified Condition
1 - 2	Always	1 MΩ or higher

- (3) Restore the released activation mechanism of connector B to the original condition.

NG REPAIR OR REPLACE FLOOR WIRE

OK

5 CHECK CENTER AIRBAG SENSOR ASSEMBLY



- (a) Connect the connectors to the front seat side airbag assembly RH and the center airbag sensor assembly.
- (b) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
- (c) Turn the ignition switch on, and wait for at least 60 seconds.
- (d) Clear the DTCs stored in the memory (See page RS-36).
- (e) Turn the ignition switch off.
- (f) Turn the ignition switch on, and wait for at least 60 seconds.
- (g) Check the DTCs (See page RS-36).

OK:

DTC B1825/56, B1826/56, B1827/56 and B1828/56 are not output.

HINT:

DTCs other than DTC B1825/56, B1826/56, B1827/56 and B1828/56 may be output at this time, but they are not related to this check.

NG REPLACE CENTER AIRBAG SENSOR ASSEMBLY

OK

USE SIMULATION METHOD TO CHECK

RS