DTC	B0117/45	Short to GND in Side Squib LH Circuit

DESCRIPTION

The side squib LH 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.
DTC B0117/45 is recorded when a short to ground is detected in the side squib LH circuit.

DTC No.	DTC Detecting Condition	Trouble Area
B0117/45	• Short circuit in side squib LH wire harness (to ground) • Side squib LH malfunction • Center airbag sensor assembly malfunction	• Front seat side airbag assembly LH (Side squib LH) • Center airbag sensor assembly • Floor wire

RS

WIRING DIAGRAM

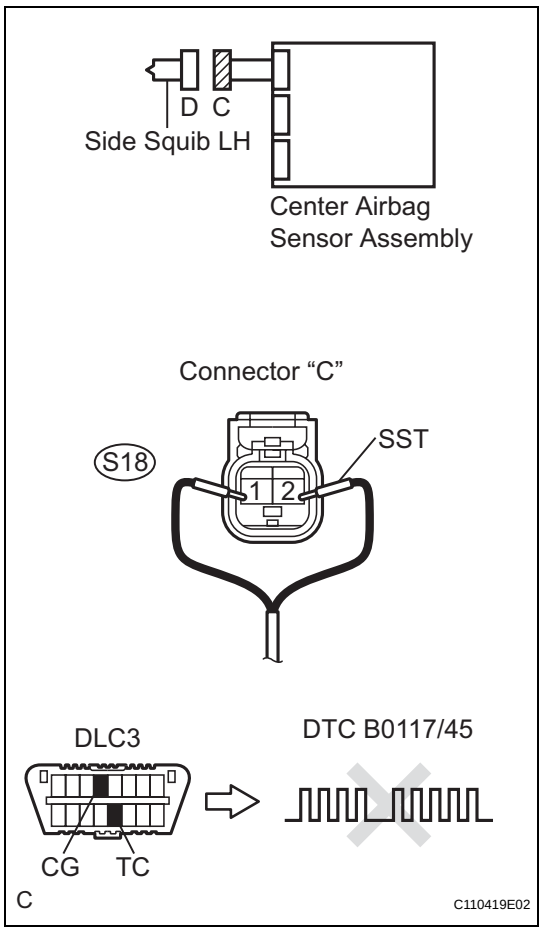
See page RS-94.

INSPECTION PROCEDURE

HINT:

- Perform the simulation method by selecting the "check mode" (signal check) with the intelligent tester (See page RS-38).
- 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-38).

1	CHECK FRONT SEAT SIDE AIRBAG ASSEMBLY LH (SIDE SQUIB LH)



(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) Disconnect the connectors from the front seat side airbag assembly LH.
(d) Connect the black wire side of SST (resistance 2.1 Ω) to the floor wire.
CAUTION:
Never connect a tester to the front seat side airbag assembly LH (side squib LH) 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.
SST 09843-18060
(e) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.
(f) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(g) Clear the DTCs stored in memory (See page RS-35).
(h) Turn the ignition switch to the LOCK position.
(i) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(j) Check the DTCs (See page RS-35).

OK:
DTC B0117/45 is not output.
HINT:
Codes other than DTC B0117/45 may be output at this time, but they are not related to this check.

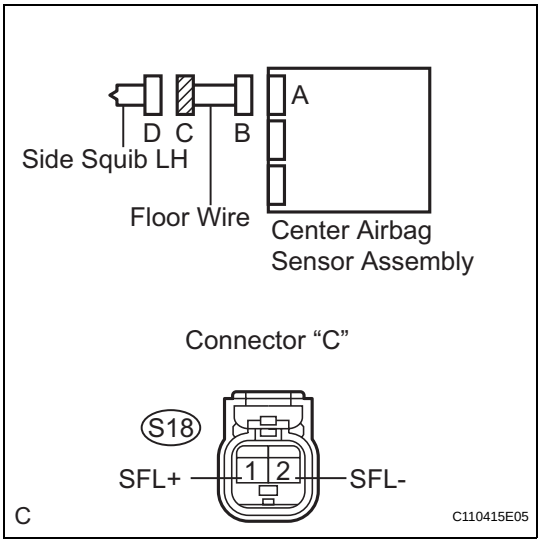
NG → **Go to step 2**

OK

REPLACE FRONT SEAT ASSEMBLY LH

RS

2 CHECK FLOOR WIRE (SIDE SQUIB LH CIRCUIT)



(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) Disconnect the SST (resistance 2.1 Ω) from the floor wire.
(d) Disconnect the connector from the center airbag sensor assembly.
(e) Measure the resistance according to the value(s) in the table below.

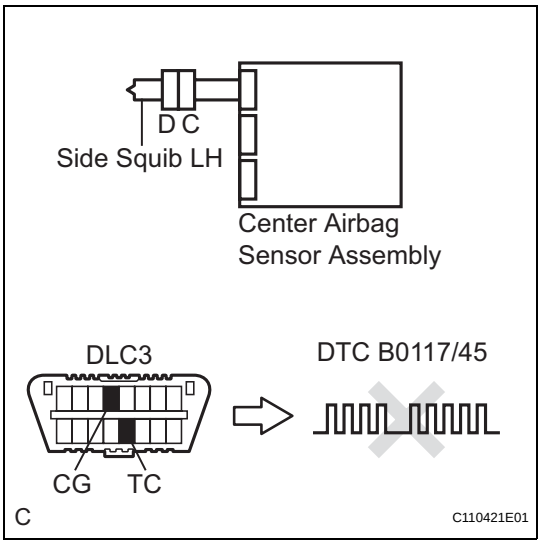
Standard resistance

Tester connection	Condition	Specified condition
S18-1 (SFL+) - Body ground	Always	1 MΩ or higher
S18-2 (SFL-) - Body ground	Always	1 MΩ or higher

NG → **REPAIR OR REPLACE FLOOR WIRE**

OK

3 CHECK CENTER AIRBAG SENSOR ASSEMBLY



(a) Connect the connectors to the front seat side airbag assembly LH 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 to the ON position, and wait for at least 60 seconds.
(d) Clear the DTCs stored in memory (See page RS-35).
(e) Turn the ignition switch to the LOCK position.
(f) Turn the ignition switch to the ON position, and wait for at least 60 seconds.
(g) Check the DTCs (See page RS-35).

OK:
DTC B0117/45 is not output.
HINT:
Codes other than code B0117/45 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