DTC	B0102/11	Short to GND in Driver Side Squib Circuit

DESCRIPTION

The driver side squib circuit consists of the center airbag sensor assembly, the spiral cable sub-assembly and the steering pad.

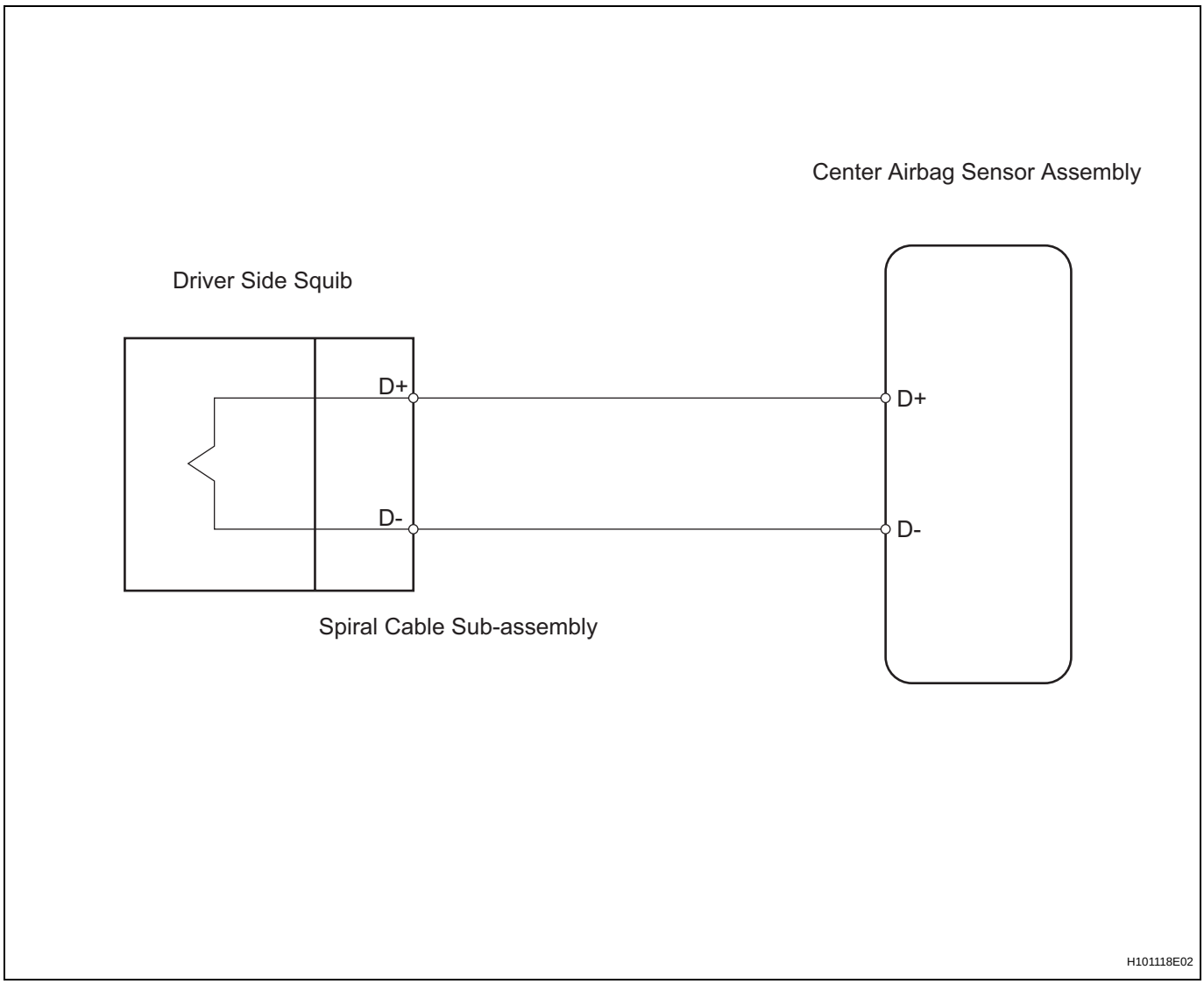
RS

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

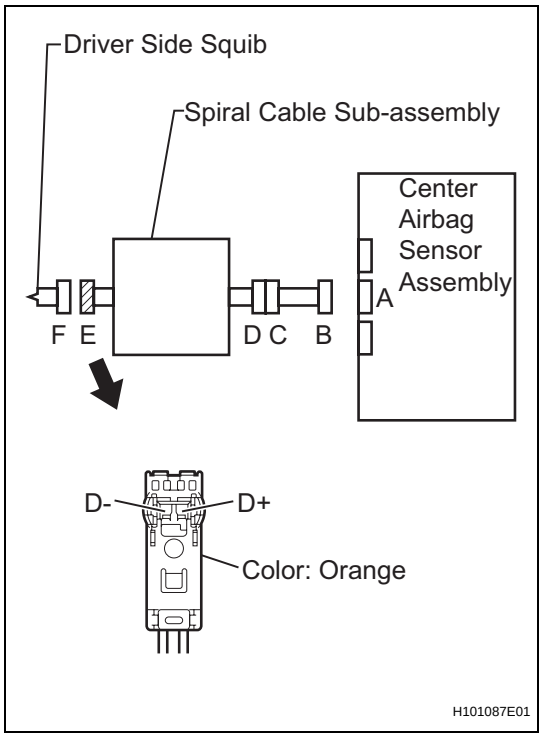
DTC B0102/11 is recorded when a short to ground is detected in the driver side squib circuit.

DTC No.	DTC Detection Condition	Trouble Area
B0102/11	• Short circuit in driver side squib wire harness (to ground) • Driver side squib malfunction • Spiral cable sub-assembly malfunction • Center airbag sensor assembly malfunction	• Steering pad (driver side squib) • Spiral cable sub-assembly • Center airbag sensor assembly • Instrument panel wire

WIRING DIAGRAM



1	CHECK DRIVER SIDE SQUIB CIRCUIT (CENTER AIRBAG SENSOR ASSEMBLY - STEERING PAD)



(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 center airbag sensor assembly and the steering pad.
(d) Measure the resistance according to the value(s) in the table below.

Standard resistance

Tester Connection (Connector "E")	Specified Condition
D+ - Body ground	1 MΩ or higher
D- - Body ground	

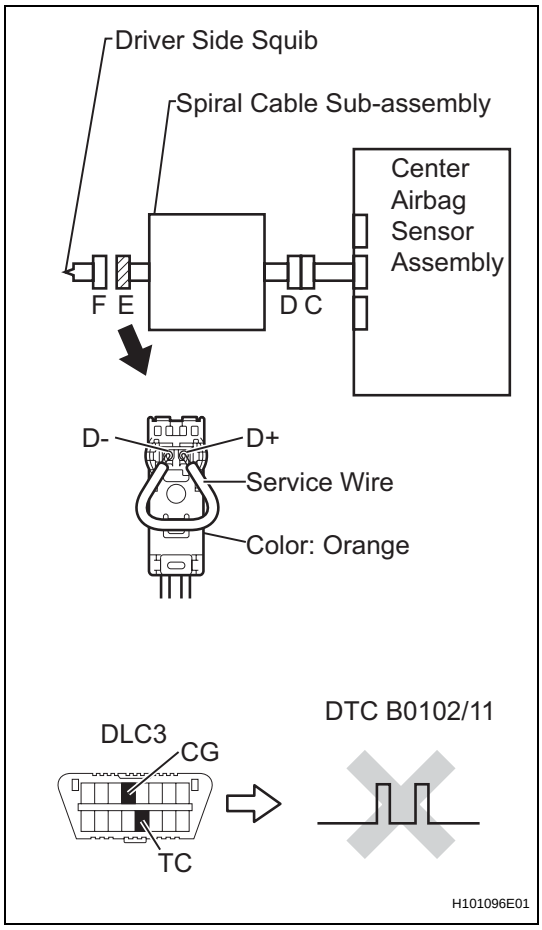
NG → **Go to step 4**

OK

2	CHECK CENTER AIRBAG SENSOR ASSEMBLY

(a) Connect the connector to the center airbag sensor assembly.

RS



(b) Using a service wire, connect terminals D+ and D- of connector "E".

NOTICE:

- **Twist the end of the service wire in order to insert to the connector.**
- **Do not forcibly insert the twisted service wire into the terminals of the connector when connecting.**

(c) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.

(d) Turn the ignition switch to the ON position, and wait for at least 60 seconds.

(e) Clear the stored DTCs in the memory (see page RS-21).

(f) Turn the ignition switch to the LOCK position.

(g) Turn the ignition switch to the ON position, and wait for at least 60 seconds.

(h) Check for the DTCs (see page RS-21).

OK:

DTC B0102/11 is not output.

HINT:

Codes other than codes B0102/11 may be output at this time, but they are not related to this check.

NG → **REPLACE CENTER AIRBAG SENSOR ASSEMBLY**

OK

3	CHECK STEERING PAD (DRIVER SIDE SQUIB)

(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 service wire from the connector "E".

(d) Connect the connectors to the steering pad.

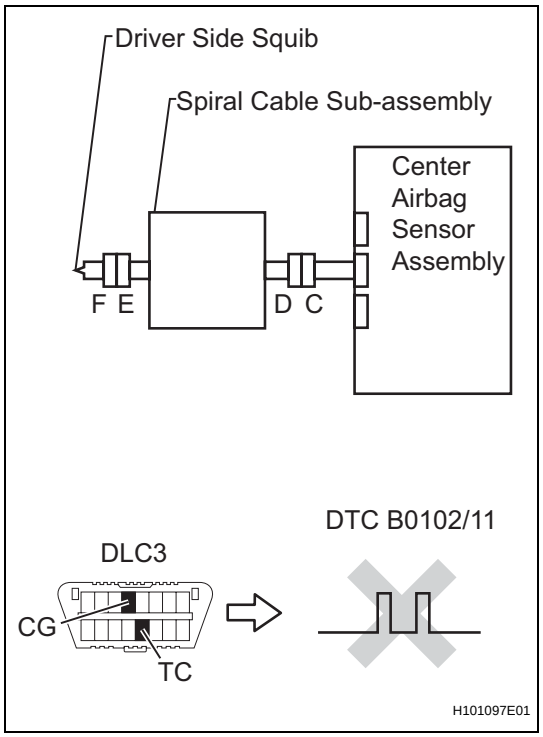
(e) Connect the negative (-) terminal cable to the battery, and wait for at least 2 seconds.

(f) Turn the ignition switch to the ON position, and wait for at least 60 seconds.

(g) Clear the stored DTCs in the memory (see page RS-21).

(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 for the DTCs (see page RS-21).
OK:
DTC B0102/11 is not output.
HINT:
Codes other than code B0102/11 may be output at this time, but they are not related to this check.

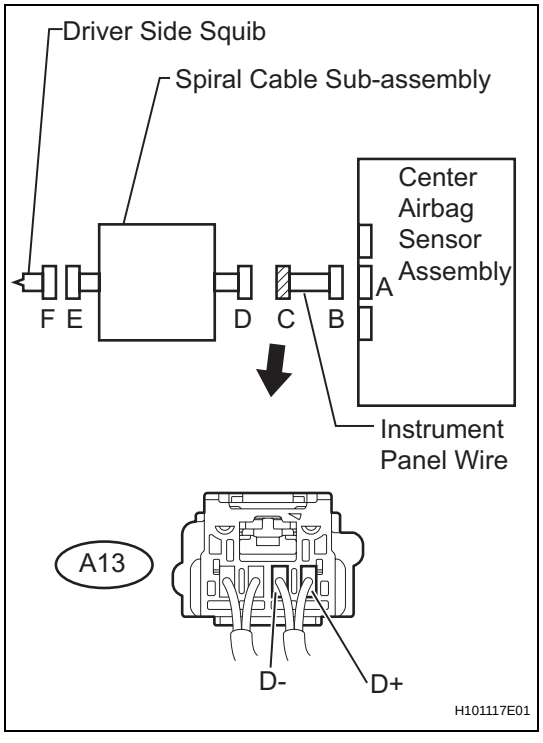
RS

NG → **REPLACE STEERING PAD**

OK

PROBLEM SYMPTOMS SIMULATION

4 CHECK INSTRUMENT PANEL WIRE



(a) Disconnect the instrument panel wire connector from the spiral cable sub-assembly.
(b) Measure the resistance according to value(s) in the table below.
Standard resistance

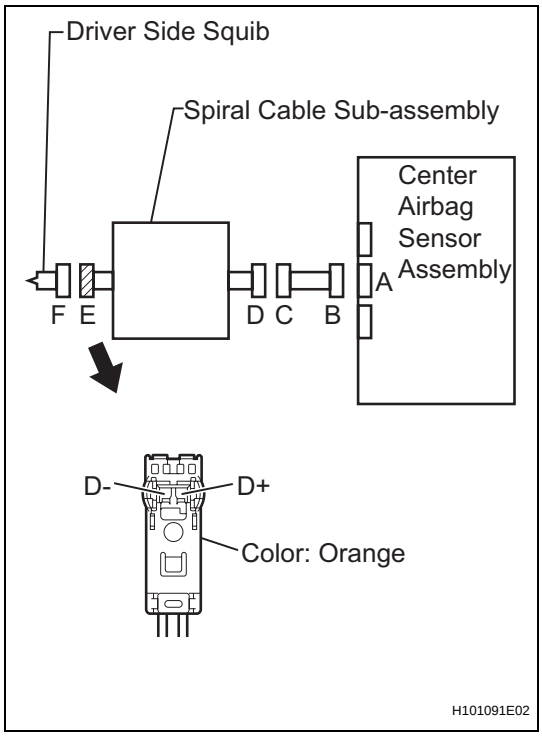
Tester Connection (Connector "C")	Specified Condition
A13-1 (D+) - Body ground	1 MΩ or higher
A13-2 (D-) - Body ground	

NG → **REPAIR OR REPLACE INSTRUMENT PANEL WIRE**

OK

5	CHECK SPIRAL CABLE SUB-ASSEMBLY

RS



(a) Measure the resistance according to the value(s) in the table below.

Standard resistance

Tester Connection (Connector "E")	Specified Condition
D+ - Body ground	1 MΩ or higher
D- - Body ground	

NG → REPLACE SPIRAL CABLE SUB-ASSEMBLY

OK

PROBLEM SYMPTOMS SIMULATION