DTC B0102/11 SHORT IN D SQUIB CIRCUIT (TO GROUND)

CIRCUIT DESCRIPTION

The D squib circuit consists of the airbag ECU assy, spiral cable sub–assy and horn button assy.
The SRS will deploy if the SRS deployment conditions are satisfied.
DTC B0102/11 is recorded when a ground short is detected in the D squib circuit.

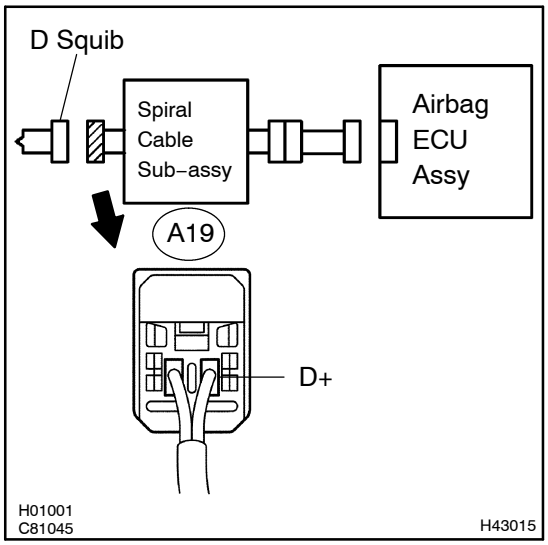
DTC No.	DTC Detection Condition	Trouble Area
B0102/11	• Short circuit in D squib wire harness (to ground) • D squib malfunction • Spiral cable sub–assy malfunction • Airbag ECU assy malfunction	• Horn button assy (D squib) • Spiral cable sub–assy • Airbag ECU assy • Wire harness

WIRING DIAGRAM

See page 05–322.

INSPECTION PROCEDURE

1	CHECK D SQUIB CIRCUIT(AIRBAG ECU ASSY–HORN BUTTON ASSY)



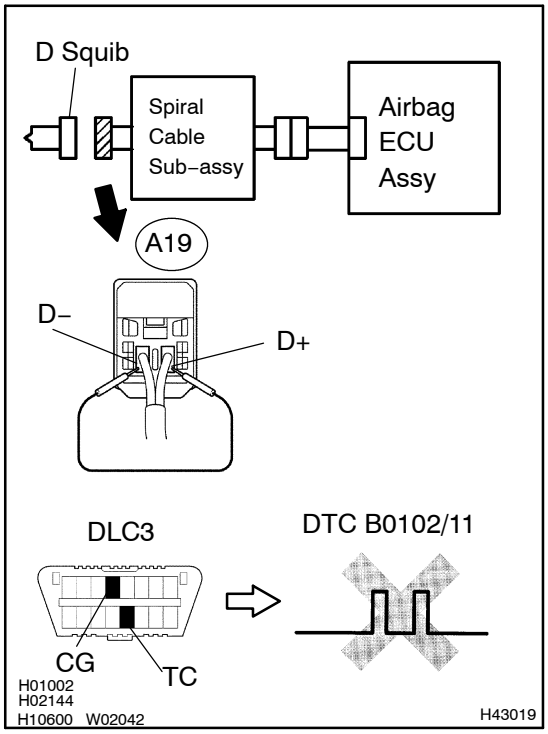
(a) Disconnect the negative (–) terminal cable from the battery and wait at least for 90 seconds.
(b) Disconnect the connector between the airbag ECU assy and the horn button assy.
(c) For the connector (on the spiral cable sub–assy side) between the spiral cable sub–assy and the horn button assy, measure the resistance between terminal D+ of the A19 connector and the body ground.
OK:
Resistance: 1 MΩ or higher

NG → **Go to step 5**

OK

2 CHECK AIR BAG ECU ASSY

SST 09843–18040



(a) Connect the connector to the airbag ECU assy.
(b) Using a service wire, connect terminals D+ and D– of the A19 connector (on the spiral cable sub–assy side) between the spiral cable sub–assy and the horn button assy.
(c) Connect the negative (–) terminal cable to the battery and wait at least for 2 seconds.
(d) Turn the ignition switch to ON and wait at least for 20 seconds.
(e) Clear the DTC stored in the memory (See page 05–312).
(f) Turn the ignition switch to LOCK and wait at least for 20 seconds.
(g) Turn the ignition switch to ON and wait at least for 60 seconds.
(h) Check for DTC (See page 05–312).

OK:

DTC B0102/11 is not output.

HINT:

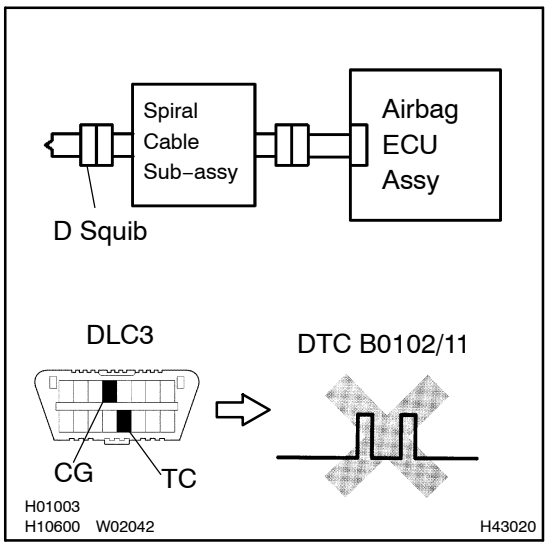
Codes other than code B0102/11 may be output at this time, but they are not relevant to this check.

NG → **REPLACE AIR BAG ECU ASSY**

OK

3 CHECK D SQUIB

SST 09843–18040



(a) Turn the ignition switch to LOCK.
(b) Disconnect the negative (–) terminal cable from the battery and wait at least for 90 seconds.
(c) Connect the horn button connector.
(d) Connect the negative (–) terminal cable to the battery and wait at least for 2 seconds.
(e) Turn the ignition switch to ON and wait at least for 20 seconds.
(f) Turn the ignition switch to ON and wait at least for 60 seconds.
(g) Clear the DTC stored in the memory (See page 05–312).
(h) Turn the ignition switch to LOCK and wait at least for 20 seconds.
(i) Check for DTC (See page 05–312).
OK:
DTC B0102/11 is not output.

HINT:
Codes other than code B0102/11 may be output at this time, but they are not relevant to this check.

NG → **REPLACE HORN BUTTON ASSY**

OK

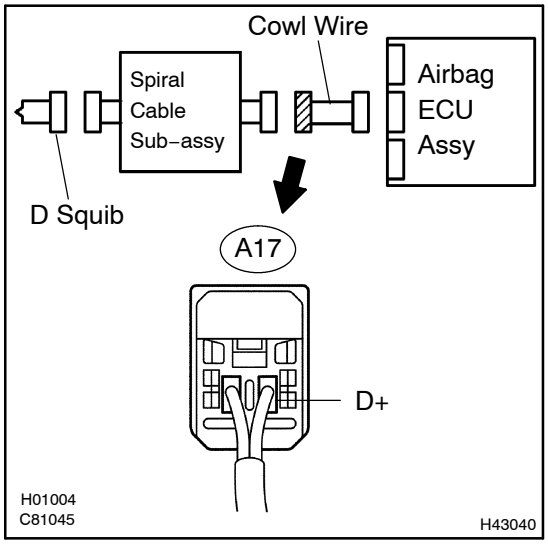
4 USE SIMULATION METHOD TO CHECK

NG → **Go to step 1**

OK

REPLACE ALL SRS COMPONENTS INCLUDING THE WIRE HARNESS

5	CHECK COWL WIRE(AIRBAG ECU ASSY–SPIRAL CABLE SUB–ASSY)

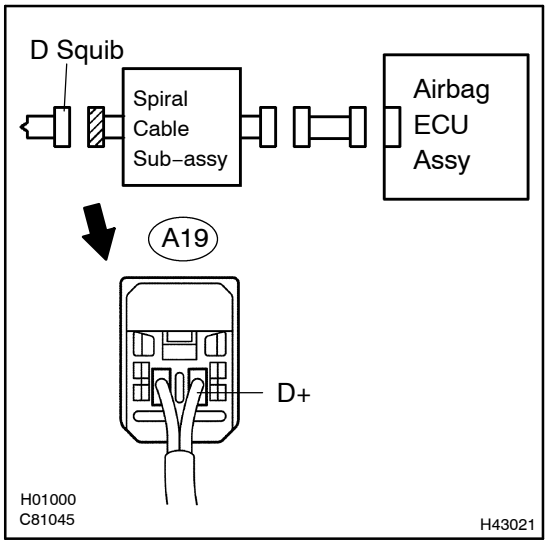


(a) Disconnect the connectors of the cowl wire.
(b) For the connector (on the spiral cable sub–assy side) between the airbag ECU assy and the spiral cable sub–assy, measure the resistance between terminal D+ of the A17 connector and the body ground.
OK:
Resistance: 1 MΩ or higher

NG → **REPAIR OR REPLACE COWL WIRE**

OK

6	CHECK SPIRAL CABLE SUB–ASSY



(a) For the connector (on the spiral cable sub–assy side) between the horn button assy and spiral cable sub–assy, measure the resistance between terminal D+ of the A19 connector and the body ground.
OK:
Resistance: 1 MΩ or higher

NG → **REPLACE SPIRAL CABLE SUB–ASSY**

OK

7	USE SIMULATION METHOD TO CHECK

NG → **Go to step 1**

OK

REPLACE ALL SRS COMPONENTS INCLUDING THE WIRE HARNESS