DTC B0103/12 SHORT IN D SQUIB CIRCUIT (TO B+)

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 B0103/12 is recorded when a B+ short is detected in the D squib circuit.

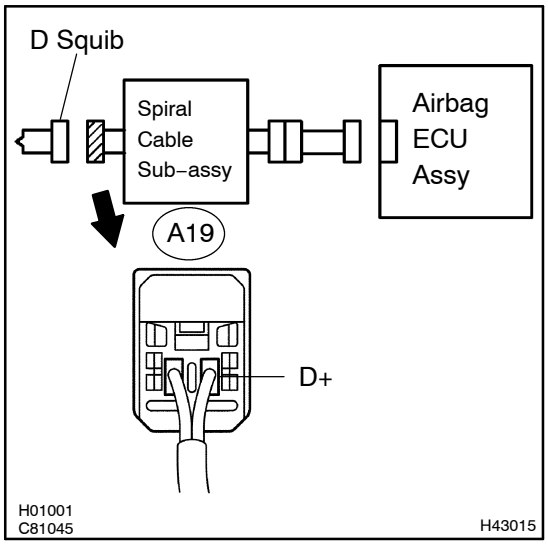
DTC No.	DTC Detection Condition	Trouble Area
B0103/12	• Short circuit in D squib wire harness (to B+) • D squib malfunction • Spiral cable sub–assy malfunction • Airbag ECU assy malfunction	• Horn button assy (D squib) • Spiral cable sub–assy • Airbag ECU assy • Wire harness

WIRING DIAGRAM

See page 05–322.

INSPECTION PROCEDURE

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



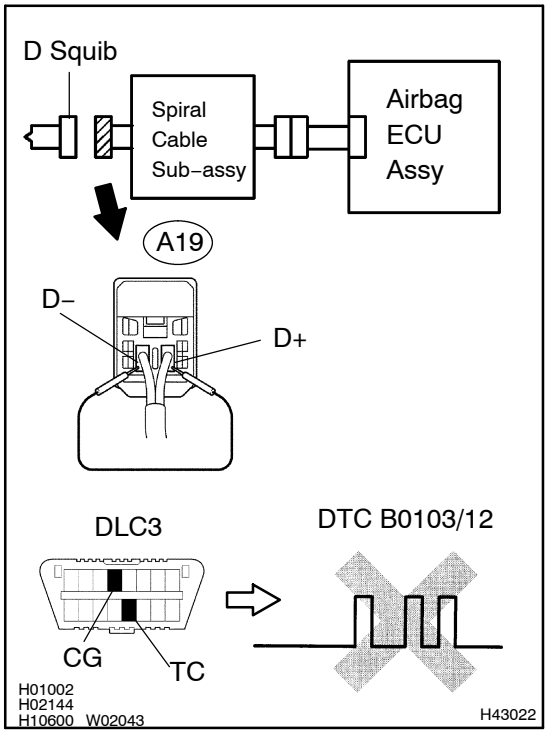
(a) Disconnect the negative (–) terminal cable from the battery and wait at least for 90 seconds.
(b) Disconnect the connector between the airbag ECU assy and the horn button assy.
(c) Connect the negative (–) terminal cable to the battery and turn the ignition switch to ON.
(d) For the connector (on the spiral cable sub–assy side) between the spiral cable sub–assy and the horn button assy, measure the voltage between terminal D+ of the A19 connector and the body ground.
OK:
Voltage: Below 1 V

NG → **Go to step 5**

OK

2 CHECK AIR BAG ECU ASSY

SST 09843–18040



(a) Disconnect the negative (–) terminal cable from the battery, and wait at least for 90 seconds.
(b) Connect the connector to the airbag ECU assy.
(c) Using a servie 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.
(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) Clear the DTC stored in the memory (See page 05–312).
(g) Turn the ignition switch to LOCK and wait at least for 20 seconds.
(h) Turn the ignition switch to ON and wait at least for 60 seconds.
(i) Check for DTC (See page 05–312).

OK:

DTC B0103/12 is not output.

HINT:

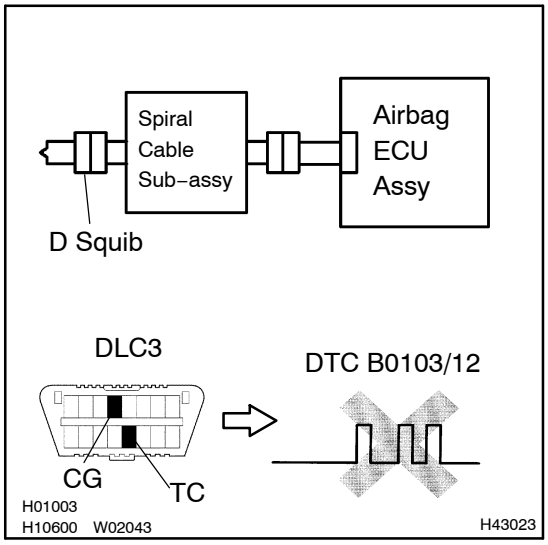
Codes other than code B0103/12 may be output at this time, but they are not relevant to this check.

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) Clear the DTC stored in the memory (See page 05–312).
(g) Turn the ignition switch to LOCK and wait at least for 20 seconds.
(h) Turn the ignition switch to ON and wait at least for 60 seconds.
(i) Check for DTC (See page 05–312).
OK:
DTC B0103/12 is not output.

HINT:
Codes other than code B0103/12 may be output at this time, but they are not relevant to this check.

NG → **REPLACE HORN BUTTON ASSY**

OK

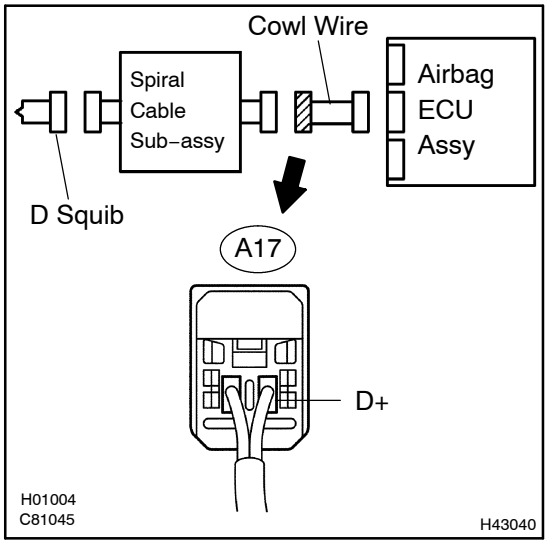
4	USE SIMULATION METHOD TO CHECK

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)

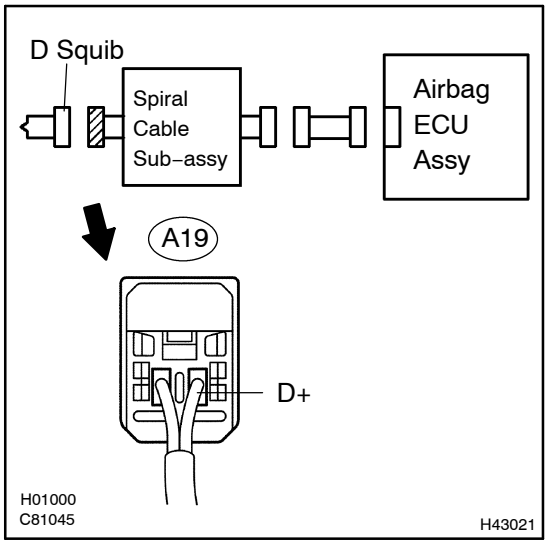


(a) Turn the ignition switch to LOCK.
(b) Disconnect the connectors of the cowl wire.
(c) For the cowl wire connector (on the spiral cable sub–assy side) between the spiral cable sub–assy and airbag ECU assy, measure the voltage between terminal D+ and the body ground.
OK:
Voltage: Below 1 V

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 spiral cable sub–assy and the horn button assy, measure the voltage between terminal D+ and the body ground.
OK:
Voltage: Below 1 V

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