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

CIRCUIT DESCRIPTION

The D squib circuit consists of the airbag sensor assy center, the spiral cable sub–assy and the horn button assy.
The circuit instructs the SRS to deploy when deployment conditions are met.
DTC B0103/12 is recorded when a short to B+ is detected in the D squib circuit.

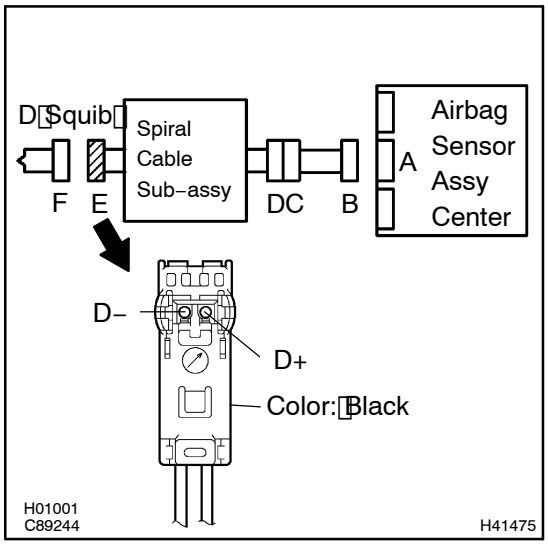
DTC No.	DTC Detecting Condition	Trouble Area
B0103/12	• Short circuit in D squib wire harness (to B+) • D squib malfunction • Spiral cable sub–assy malfunction • Airbag sensor assy center malfunction	• Horn button assy (D squib) • Spiral cable sub–assy • Airbag sensor assy center • Cowl wire

WIRING DIAGRAM

See page 05–527.

INSPECTION PROCEDURE

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



(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 airbag sensor assy center and the horn button assy.
(d) Connect the negative (–) terminal cable to the battery, and wait for at least 2 seconds.
(e) Turn the ignition switch to the ON position.
(f) Measure the voltage according to the value(s) in the table below.

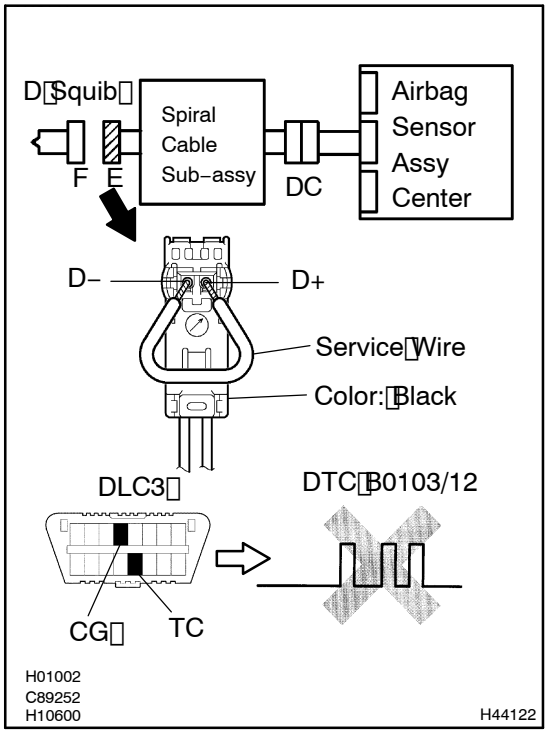
Standard:

Tester connection	Condition	Specified condition
D+ – Body ground	Ignition switch ON	Below 1 V
D– – Body ground	Ignition switch ON	Below 1 V

NG → **Go to step 4**

OK

2 CHECK AIR BAG SENSOR ASSY CENTER



(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) Connect the connector to the airbag sensor assy center.
(d) Using a service wire, connect D+ and D– of connector "E".

NOTICE:

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

(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 05–513).
(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 05–513).

OK:

DTC B0103/12 is not output.

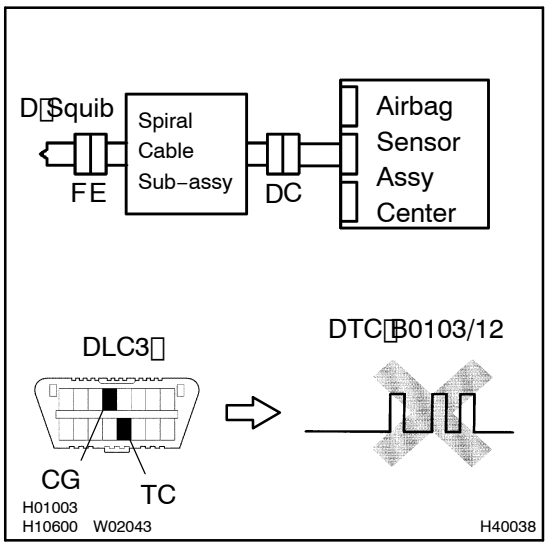
HINT:

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

NG → **REPLACE AIR BAG SENSOR ASSY CENTER**

OK

3 CHECK HORN BUTTON ASSY(D 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 connector "E".
(d) Connect the connectors to the horn button assy.
(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 05–513).
(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 05–513).

OK:

DTC B0103/12 is not output.

HINT:

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

NG → **REPLACE HORN BUTTON ASSY**

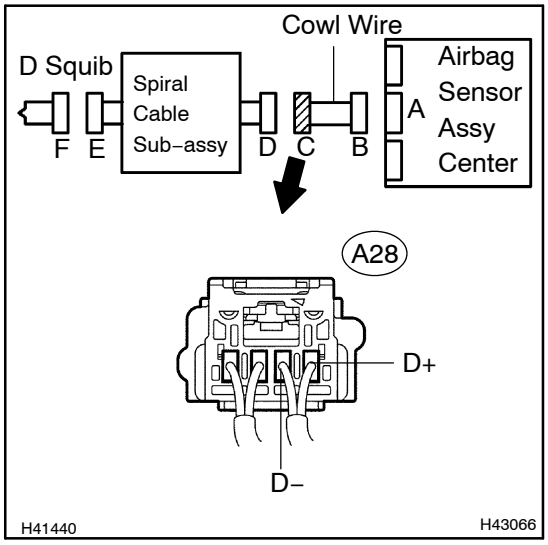
OK

USE SIMULATION METHOD TO CHECK

HINT:

- Before performing the simulation method, check that the airbag sensor assy center is in check mode (see page 05–516).
- Perform the simulation method by selecting the check mode with the hand–held tester (see page 05–516).
- After selecting the check mode, perform the simulation method by wiggling each connector of the airbag system or driving the vehicle on a city or rough road (see page 05–516).

4 CHECK COWL WIRE



(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 cowl wire connector from the spiral cable sub–assy.
(d) Connect the negative (–) terminal cable to the battery, and wait for at least 2 seconds.
(e) Turn the ignition switch to the ON position.
(f) Measure the voltage according to the value(s) in the table below.

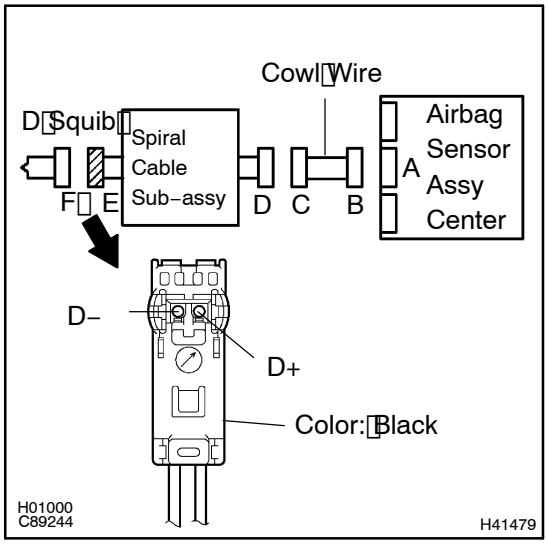
Standard:

Tester connection	Condition	Specified condition
A28–1 (D+) – Body ground	Ignition switch ON	Below 1 V
A28–2 (D–) – Body ground	Ignition switch ON	Below 1 V

NG → **REPAIR OR REPLACE COWL WIRE**

OK

5 CHECK SPIRAL CABLE SUB–ASSY



(a) Measure the voltage according to the value(s) in the table below when the ignition switch is in the ON position.

Standard:

Tester connection	Condition	Specified condition
D+ – Body ground	Ignition switch ON	Below 1 V
D– – Body ground	Ignition switch ON	Below 1 V

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

OK

USE SIMULATION METHOD TO CHECK

HINT:

- Before performing the simulation method, check that the airbag sensor assy center is in check mode (see page 05–516).
- Perform the simulation method by selecting the check mode with the hand–held tester (see page 05–516).
- After selecting the check mode, perform the simulation method by wiggling each connector of the airbag system or driving the vehicle on a city or rough road (see page 05–516).