

<b>DTC</b>	<b>B1803/51</b>	<b>SHORT IN D SQUIB CIRCUIT (TO B+)</b>
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## CIRCUIT DESCRIPTION

The D squib circuit consists of the airbag ECU assy, the spiral cable sub-assy and the horn button assy. The circuit instructs the SRS to deploy when deployment conditions are met.

DTC B1803 is recorded when a short to B+ is detected in the D squib circuit.

DTC No.	DTC Detecting Condition	Trouble Area
B1803	<ul style="list-style-type: none"> <li>• When the airbag ECU assy receives a B+ short signal in the D squib circuit for 0.5 seconds.</li> <li>• D squib malfunction</li> <li>• Spiral cable sub-assy malfunction</li> <li>• Airbag ECU assy malfunction</li> </ul>	<ul style="list-style-type: none"> <li>• Instrument panel wire</li> <li>• Spiral cable sub-assy</li> <li>• Horn button assy (D squib)</li> <li>• Airbag ECU assy</li> </ul>

## WIRING DIAGRAM

See page [05-1461](#).

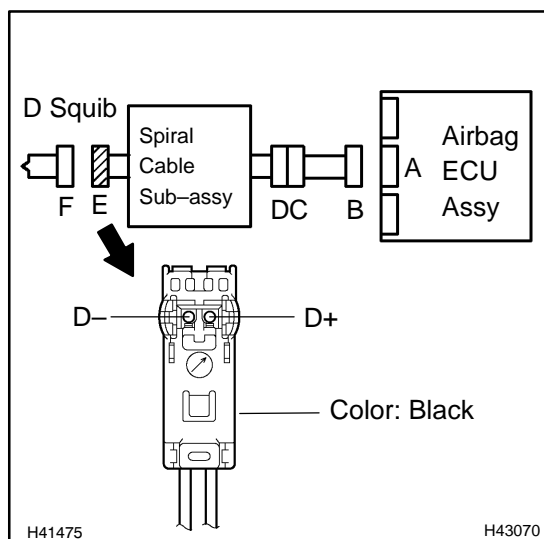
## INSPECTION PROCEDURE

### CAUTION:

Be sure to perform the following procedures before troubleshooting to avoid unexpected airbag deployment.

- (a) Turn the power switch off.
- (b) Disconnect the negative (–) terminal cable from the battery, and wait for at least 90 seconds.
- (c) Disconnect the connectors from the airbag ECU assy.
- (d) Disconnect the connectors from the horn button assy.
- (e) Disconnect the connectors from the front passenger airbag assy.
- (f) Disconnect the connector from the front seat airbag assy LH.
- (g) Disconnect the connector from the front seat airbag assy RH.
- (h) Disconnect the connector from the curtain shield airbag assy LH.
- (i) Disconnect the connector from the curtain shield airbag assy RH.
- (j) Disconnect the connector from the front seat outer belt assy LH.
- (k) Disconnect the connector from the front seat outer belt assy RH.

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



- (a) Connect the negative (–) terminal cable to the battery, and wait for at least 2 seconds.
- (b) Turn the power switch on (IG).
- (c) Measure the voltage according to the value(s) in the table below.

#### Standard:

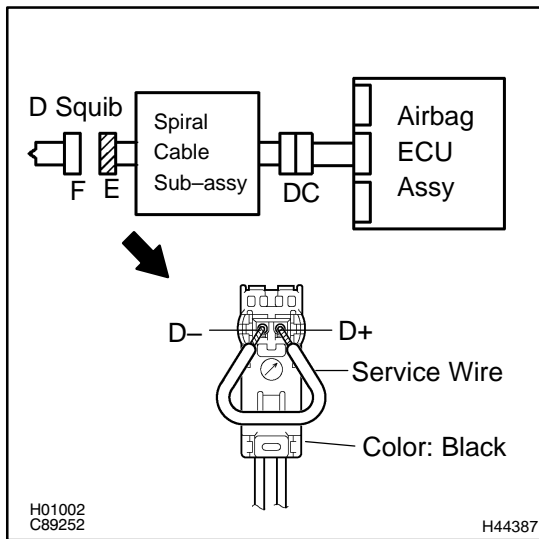
Tester connection	Condition	Specified condition
D+ – Body ground	Power switch is on (IG)	Below 1 V
D– – Body ground	Power switch is on (IG)	Below 1 V

NG

Go to step 4

OK

## 2 CHECK AIR BAG ECU ASSY



- (a) Turn the power switch off.
- (b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
- (c) Connect the connectors to the airbag ECU assy.
- (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 power switch on (IG), and wait for at least 60 seconds.
  - (g) Clear the DTCs stored in memory (see page 05-1402).
  - (h) Turn the power switch off.
  - (i) Turn the power switch on (IG), and wait for at least 60 seconds.
  - (j) Check the DTCs (see page 05-1402).

### OK:

**DTC B1803 is not output.**

### HINT:

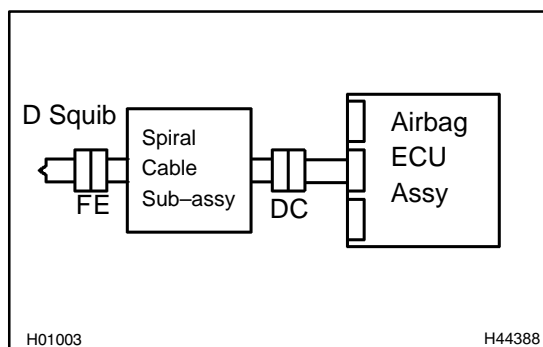
Codes other than code B1803 may be output at this time, but they are not related to this check.

**NG**

**REPLACE AIR BAG ECU ASSY  
(SEE PAGE 60-54)**

**OK**

### 3 CHECK HORN BUTTON ASSY(D SQUIB)



- (a) Turn the power switch off.
- (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 power switch on (IG), and wait for at least 60 seconds.
- (g) Clear the DTCs stored in memory (see page 05-1402).
- (h) Turn the power switch off.
- (i) Turn the power switch on (IG), and wait for at least 60 seconds.
- (j) Check the DTCs (see page 05-1402).

**OK:**

**DTC B1803 is not output.**

**HINT:**

Codes other than code B1803 may be output at this time, but they are not related to this check.

**NG**

**REPLACE HORN BUTTON ASSY  
(SEE PAGE 60-20)**

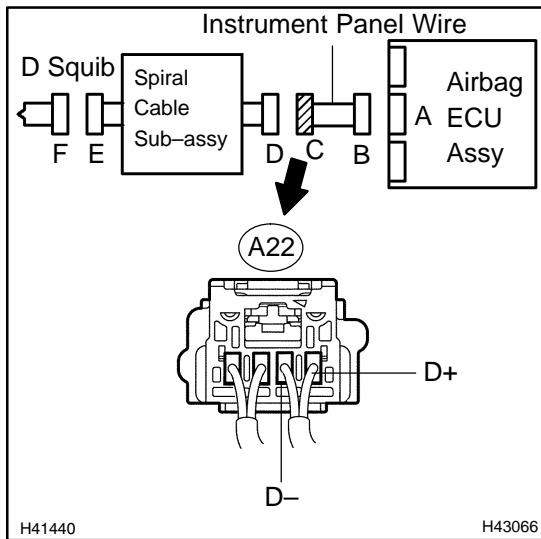
**OK**

### USE SIMULATION METHOD TO CHECK (SEE PAGE 05-1397)

**HINT:**

- Perform the simulation method by selecting the check mode with the hand-held tester (see page 05-1405).
- 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 05-1405).

**4 CHECK INSTRUMENT PANEL WIRE**



- (a) Turn the power switch off.
- (b) Disconnect the negative (-) terminal cable from the battery, and wait for at least 90 seconds.
- (c) Disconnect the instrument panel 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 power switch on (IG).
- (f) Measure the voltage according to the value(s) in the table below.

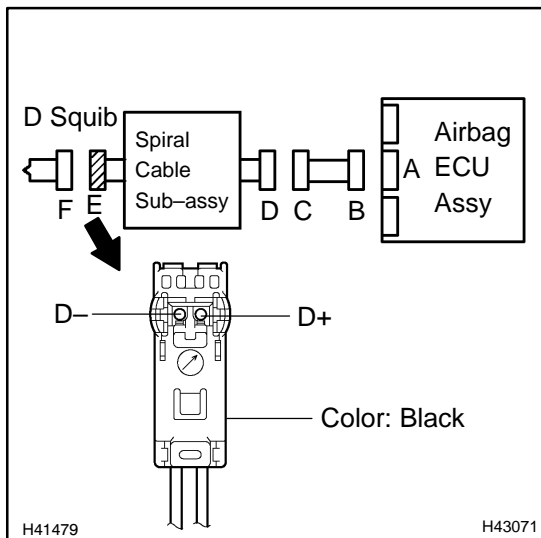
**Standard:**

Tester connection	Condition	Specified condition
A22-1 (D+) – Body ground	Power switch is on (IG)	Below 1 V
A22-2 (D-) – Body ground	Power switch is on (IG)	Below 1 V

**NG** REPAIR OR REPLACE INSTRUMENT PANEL WIRE

**OK**

**5 CHECK SPIRAL CABLE SUB-ASSY**



- (a) Measure the voltage according to the value(s) in the table below when the power switch is on (IG).

**Standard:**

Tester connection	Condition	Specified condition
D+ – Body ground	Power switch is on (IG)	Below 1 V
D- – Body ground	Power switch is on (IG)	Below 1 V

**NG** REPLACE SPIRAL CABLE SUB-ASSY (SEE PAGE 60-29)

**OK**

**USE SIMULATION METHOD TO CHECK (SEE PAGE 60-29)**

**HINT:**

- Perform the simulation method by selecting the check mode with the hand-held tester (see page 05-1405).
- 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 05-1405).