

<b>DTC</b>	<b>B1828/56</b>	<b>SHORT IN SIDE SQUIB (P SEAT SIDE) CIRCUIT (TO B+)</b>
------------	-----------------	--

## CIRCUIT DESCRIPTION

The side squib (P seat side) circuit consists of the airbag ECU Assy and the front seat w/ adjuster frame Assy RH (side squib (P seat side)).

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

DTC B1828 is recorded when a short to B+ is detected in the side squib (P seat side) circuit.

DTC No.	DTC Detecting Condition	Trouble Area
B1828	<ul style="list-style-type: none"> <li>• When the airbag ECU Assy receives a B+ short signal in the side squib (P seat side) circuit for 0.5 seconds.</li> <li>• Side squib (P seat side) malfunction</li> <li>• Airbag ECU Assy malfunction</li> </ul>	<ul style="list-style-type: none"> <li>• Floor wire No.2</li> <li>• Seat airbag No.2 wire</li> <li>• Front seat w/ adjuster frame Assy RH (Side squib (P seat side))</li> <li>• Airbag ECU Assy</li> </ul>

## WIRING DIAGRAM

See page [05-1561](#).

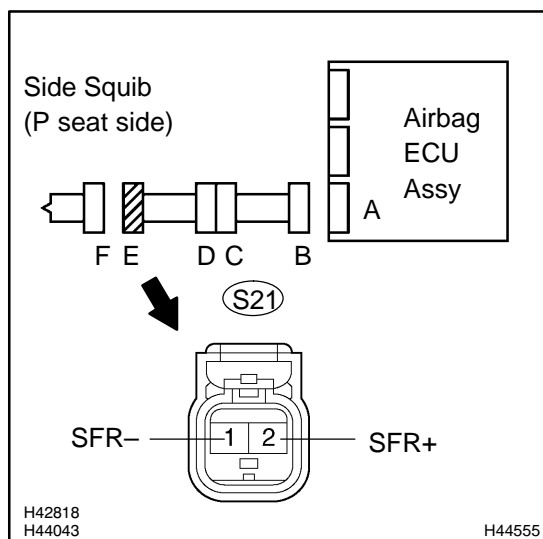
## INSPECTION PROCEDURE

### 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 SIDE SQUIB (P SEAT SIDE) CIRCUIT



- (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:

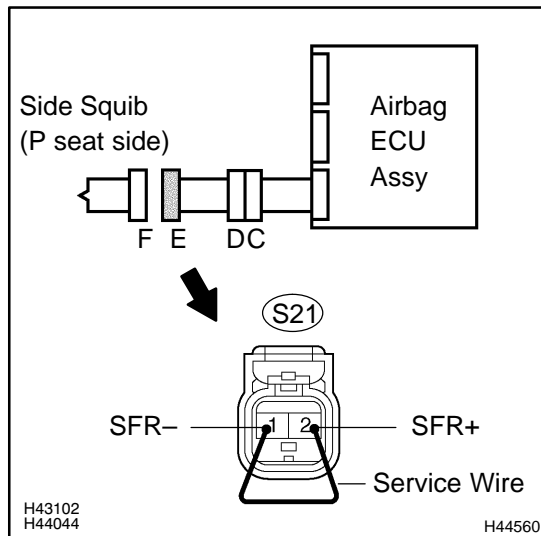
Tester connection	Condition	Specified condition
S21-2 (SFR+) – Body ground	Power switch is on (IG)	Below 1 V
S21-1 (SFR-) – Body ground	Power switch is on (IG)	Below 1 V

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 for 90 seconds.
- (c) Connect the connectors to the airbag ECU Assy.
- (d) Using a service wire, connect S21-2 (SFR+) and S21-1 (SFR-) of connector "E".

### NOTICE:

**Do not forcibly insert a 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 B1828 is not output.**

### HINT:

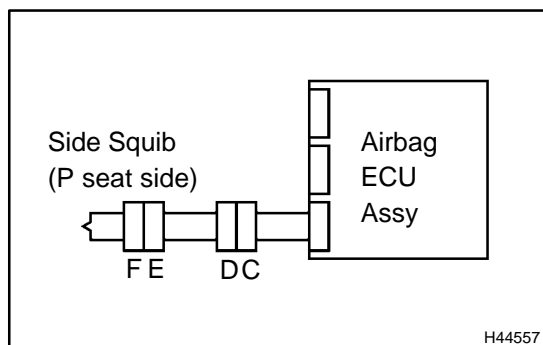
Codes other than code B1828 may be output at this time, but they are not related to this check.

**NG**

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

**OK**

### 3 CHECK FRONT SEAT W/ADJUSTER FRAME ASSY RH(SIDE SQUIB (P SEAT SIDE))



- (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 connector to the front seat w/ adjuster frame assy RH (side squib (P seat side)).
- (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 B1828 is not output.**

**HINT:**

Codes other than code B1828 may be output at this time, but they are not related to this check.

**NG**

**REPLACE FRONT SEAT W/ADJUSTER FRAME ASSY RH (SEE PAGE 72-2)**

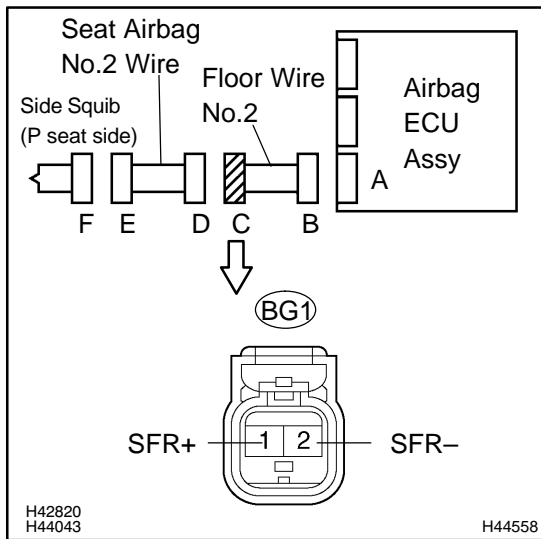
**OK**

### 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 FLOOR WIRE NO.2**



- (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 floor wire connector from the seat airbag No.2 wire.
- (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.

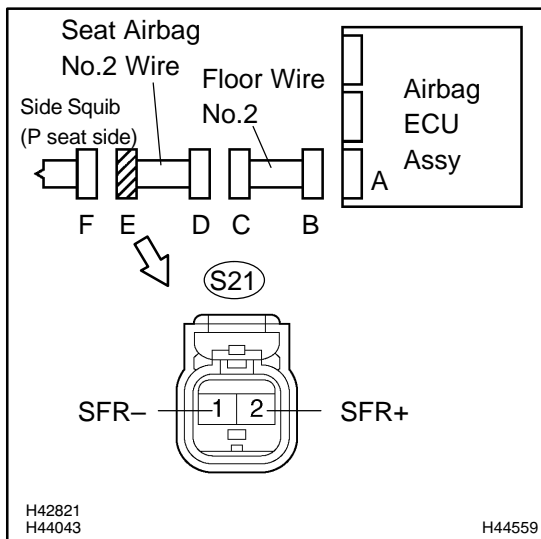
**Standard:**

Tester connection	Condition	Specified condition
BG1-1 (SFR+) - Body ground	Power switch is on (IG)	Below 1 V
BG1-2 (SFR-) - Body ground	Power switch is on (IG)	Below 1 V

**NG** REPAIR OR REPLACE FLOOR WIRE NO.2

**OK**

**5 CHECK SEAT AIRBAG NO.2 WIRE**



- (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
S21-2 (SFR+) - Body ground	Power switch is on (IG)	Below 1 V
S21-1 (SFR-) - Body ground	Power switch is on (IG)	Below 1 V

**NG** REPAIR OR REPLACE SEAT AIRBAG NO.2 WIRE

**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).